ECLATEC

Life, town and nature

LUMINAIRES

Eclatec luminaire range

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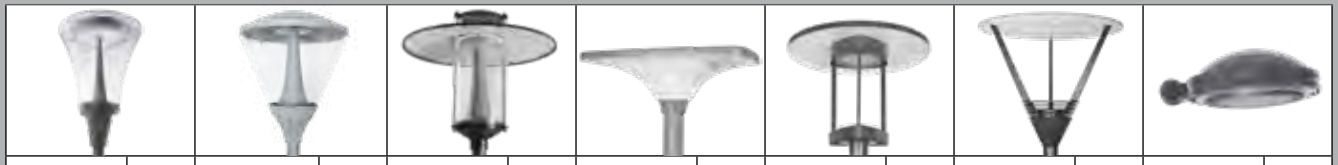

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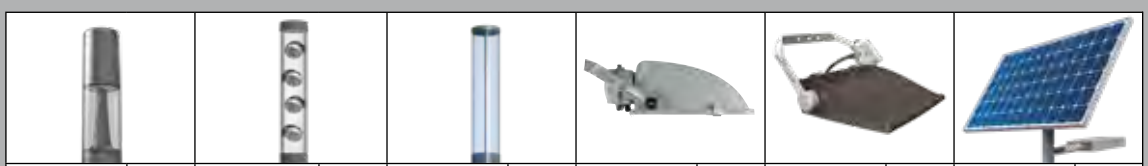

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Type	Number of LEDs	Modules [A]	Min. of distributions [A]	Power supply (mA) [B]		Max efficiency of the luminaire at 4000 K (lm/W) [G]	Total power at maxi. flux (W) [C]	LED flux at Pmax 4000 K [D] (lm)	Output flux at Pmax 4000 K [E] (lm)	Output flux at Pmax 3000 K [E] (lm)	Options [F]				
				Fixed	Ajustable (Imax)						POLEDRIVE Dimming 5 Motion P DALI, FC [1]	Motion, Motion 5	Motion DALI	Motion+Com	Lighting control
ALOA	42	**Spécifique**	2		500	82	78	7632	6145		√[10]	√[2]			
AMARANTE	24	**KIDLED**	3	350, 700	700 [5]	119	52	7886	5847	5262	√				
Beauregard II short bowl	20	**SOMLED 1**	3		1000	86	66	6572	5275	4748					
	24	**2BLS12**	6		700	108	53	7886	5136	4622	√	√		√	√
	36	**3BLS12**				115	78	11830	7550	6795					
	48	**4BLS12**				116	101	15773	10096	9086					
Beauregard II deep structured bowl	20	**SOMLED 1**	3		1000	93	66	6572	5754	5179					
	24	**2BLS12**	6		700	112	53	7886	5314	4783	√	√		√	√
	36	**3BLS12**				119	78	11830	7771	6994					
	48	**4BLS12**				120	101	15773	10380	9342					
Beauregard II deep transparent bowl	20	**SOMLED 1**	3		1000	93	66	6572	5743	5169					
	24	**2BLS12**	6		700	116	53	7886	5434	4890	√	√		√	√
	36	**3BLS12**				119	78	11830	7803	7022					
	48	**4BLS12**				120	101	15773	10422	9380					
Beauregard II flat bowl	24	**2BLS12**	6		700	108	53	7886	5153	4638	√	√		√	√
	36	**3BLS12**				115	78	11830	7667	6900					
	48	**4BLS12**				120	101	15773	10017	9015					
BUZZ (Level 3E[13]) TEXTO	12	**ZEDLED C0**	4		700 [6]	115	29	3943	2892	2603	√			Buzz	Buzz
	20	**ZEDLED C1**			700	128	45	6572	4820	4338					
	26	**ZEDLED C2**				126	56	8544	6266	5640					
BUZZ (Level 1E)	20	**ZEDLED C1**	2	700		92	43	5088	3938						
CHENONCEAUX 2	21	**Spécifique**	3		700	114	45	6901	4952	4457	√				
CHENONCEAUX 3	24	**ORALED 1.0**	4		700 [6]	102	29	3943	2830	2547	√				
	24	**ORALED 1.1**			700	113	45	6572	4717	4245					
	36	**ORALED 1.2**			700 [6]	111	56	8544	6131	5518					
CLIP évolution	28	**TABLED 2**	3		1000	154	85	11593	10224	9202	√ [6]			√	√
ELIPT 45, CHORUS 45, TSANA 45, METRO 45, INDICE 500	12	**ORALED 1.0**	4		700	135	29	3943	3633	3269	√	√		√	√
	20	**ORALED 1.1**				150	45	6572	6054	5449					
	26	**ORALED 1.2**			700 [6]	148	56	8544	7964	7168					
ELIPT 45, CHORUS 45, TSANA 45	8	**1BLS 8**	10	700 [12]	700	117	19	2629	2046	1841	√	√	√	√	√
	16	**2BLS 8**				133	34	5258	4092	3683					
	24	**2BLS 12**				132	50	7886	6138	5224					
	36	**3BLS 12**				137	74	11830	9207	8286					
ELIPT 55, CHORUS 55, TSANA 55	36	**3BLS 12**	7	700 [12]	700	146	74	11830	9207	8286	√			√	√
	48	**4BLS 12**				147	101	15773	11835	10652					
	60	**5BLS 12**				154	123	19716	14792	13313					
	72	**6BLS 12**				160	145	23659	17751	15976					
ELIPT 55, CHORUS 55, TSANA 55, METRO 55, INDICE 620	36	**ORALED 2**	4		700	155	74	11830	10758	9683	√			√	√
TSANA X, CHORUS X	48	**4BLS12**	7		700	147	101	15773	12557	11301	√				
	60	**5BLS12**				154	123	19716	15675	14108					
	72	**6BLS12**			650	160	145	23659	19080	17172					
ELYXE	12	**ORALED 1.0**	4		700 [6]	110	29	3943	3333	3000	√	√		√	√
	20	**ORALED 1.1**			700	122	45	6572	5787	5208					
	26	**ORALED 1.2**			700 [6]	120	56	8544	7523	6771					
ENZA LED	52	**3BLS12 + 2BLS8**	7		700	133	109	17087	13253	11927	√				
IDYLLE	18	**ZEDLED B**	3		700	106	41	5915	3859	3473	√				
INDEX	21	**Spécifique**	3		700	128	45	6901	5487	4938	√				
INDICE CONIC YSALIS ODELIA 670	36	**ORALED2**	4		700	155	74	11830	10758	9683	√				
IXIS 1	8	**1BLS8**	10		700	117	19	2629	2116	1904	√	√		√	√
	16	**2BLS8**				133	34	5258	4332	3809					
	24	**3BLS8**				128	53	7886	6347	5712					
IXIS 2	36	**3BLS12**	7		700	146	78	11830	9549	8594	√			√	√
	48	**4BLS12**			700 [6]	147	101	15773	12731	11458					
KEO	28 + 8 [3]	**Spécifique**	3		700	106	62 [+19 [3]]	9201	6445	5801	√				
LIKE (Level 3E [13])	24	**Spécifique**	3		700	124	53	7886	6090	5481	√			√	√

Type	Number of LEDs	Modules [A]	Min. of distributions [A]	Power supply (mA) [B]		Max efficiency of the luminaire at 4000 K (lm/W) [G]	Total power at maxi. flux (W) [C]	LED flux at Pmax 4000 K [D] (lm)	Output flux at Pmax 4000 K [E] (lm)	Output flux at Pmax 3000 K [E] (lm)	Options [F]				
				Fixed	Ajustable (Imax)						POLEDRIVE Dimming 5 Motion P DALI, FC [1]	Motion, Motion 5	Motion DALI	Motion+Com	Lighting control
LINK	12	**ORALED 1.0**	4		700	115	29	3943	2892	2603					
	20	**ORALED 1.1**				128	45	6572	4820	4338					
	26	**ORALED 1.2**				126	56	8544	6266	5640					
	8	**1BLS 8**	7		700	117	19	2629	1841	1657	√			√	√
	16	**2BLS 8**				133	34	5258	3683	3315					
	24	**2BLS 12**				132	50	7886	5524	4972					
	36	**3BLS 12**				137	74	11830	8286	7457					
MAMBA	30	**KIDLED**	1	350, 700	700 [5]	141	65	9858	8593	7734	√				
MOANA, MURENA, PALEO, ECLAT	28	**TABLED 2**	3		1000	154	85	11593	10224	9202	√			Eclat Murena	Eclat Murena
NISMO with bowl	12	**ORALED 1.0**	4		700	111	29	3943	3255	2930					
	20	**ORALED 1.1**				123	45	6572	5425	4833	√	√		√	√
	26	**ORALED 1.2**				121	56	8544	7053	6348					
NISMO without bowl	12	**ORALED 1.0**	4		700	104	29	3943	3038	2734					
	20	**ORALED 1.1**				115	45	6572	5063	4557	√			√	√
	26	**ORALED 1.2**				113	56	8544	6582	5954					
ODELIA 550 PERLE	12	**ORALED 1.0**	4		700 [6]	135	29	3943	3633	3269					
	20	**ORALED 1.1**			700	150	45	6572	6054	5449	√	√			
	26	**ORALED 1.2**				148	56	8544	7964	7168					
ORIENTIS	18	**ZEDLED B**	3		700	106	41	5915	3859	3473	√				
PIXEL 1	8	**1BLS8**	10		700	117	19	2629	2116	1904					
	16	**2BLS8**				133	34	5258	4232	3809	√	√	√	√	√
	24	**3BLS8**			700 [6]	128	53	7886	6347	5712					
PIXEL 2	36	**3BLS12**	7		700	146	77	11830	9549	8594					
	48	**4BLS12**				147	101	15773	12731	11458	√			√	√
	60	**5BLS12**			700 [6]	154	123	19716	15915	14324					
PRIORILED	40	**PRIORILED**	2	700		105	84	13144	6500K : 8850						
REFLEX DIRECT	12	**ORALED 1.0**	4		700	124	29	3943	3227	2905					
	20	**ORALED 1.1**				138	45	6572	5379	4841	√	√		√	
	26	**ORALED 1.2**			700 [6]	135	56	8544	6993	6293					
REFLEX INDIRECT	30	**LEOLED**	1		350	52	32	3816		3500K : 1660	√				
SAGA	12	**ORALED 1.0**	4		700	135	29	3943	3633	3269					
	20	**ORALED 1.1**				150	45	6572	6054	5449	√	√		√	√
	26	**ORALED 1.2**			700 [6]	148	56	8544	7964	7168					
SCOOP (Level 3E)	24	**Spécifique**	3		700 [6]	117	52	7886	5173	4656	√	√		√	√
SCOOP (Level 1E)	24	**Spécifique**	2	700		80	52	6106	4200	3780					
SCOOP (Level 1E)	12	**Spécifique**	2	700		81	27	3053	2142	1928					
SONATA / SONATA O	24 [4]	**2BLS12**	10		700 [6]	133	54	7886	6212	5591	√	√ [9]	√ [9]		
STANZA	20	**SOMLED 1**	6		1000	98	66	6572	6033	5430					
	24	**2BLS12**			700	115	54	7886	5524	4972	√	√		√	
	36	**3BLS12**				123	74	11830	8161	7345					
	48	**4BLS12**				123	102	15773	10702	9632					
STELIUM 1 et TWEET «Néo» 1 : S1, X1 (Level 3E[13])	8	**1BLS8**	10		700	117	19	2629	1863	1677					
	16	**2BLS8**				133	35	5258	3725	3353	√			√	√
	24	**2BLS12**			700 [6]	138	51	7886	5589	5030					
	36	**3BLS12**				146	75	11830	8383	7545					
STELIUM 2 et TWEET «Néo» 2 : S2, X2 (Level 3E[13])	24	**2BLS12**	7		700	138	51	7886	6107	5496					
	36	**3BLS12**				146	75	11830	9159	8243	√			√	√
	48	**4BLS12**			700 [6]	147	98	15773	12213	10992					
TAÏGA	28	**TABLED 2**	3		900	173	77	10434	9599	9391	√				
TILT «Origin»	20	**Spécifique**	2		700	99	47	6572	3985	3586	√	√			
	32	**Spécifique**				95	70	10515	5779	5201					
TILT T1	8	**PADLED 1 (1BLS8)**	10		700	117	19	2629	1973	1776		√ [2]			
	16	**PADLED 1 (2BLS8)**				133	34	5258	3946	3551	√				
	24	**PADLED 1 (3BLS8)**			700 [6]	128	54	7886	5919	5327					
TILT T2	24	**PADLED 2 (2BLS12)**	7		700	138	53	7886	6015	5414					
	36	**PADLED 2 (3BLS12)**				146	77	11830	9024	8122	√	√			
	48	**PADLED 2 (4BLS12)**			700 [6]	147	101	15773	12032	10829					

LED SOLUTIONS OVERVIEW

February 2018

ECLATEC

Type	Number of LEDs	Modules [A]	Min. of distributions [A]	Power supply (mA) [B]		Max efficiency of the luminaire at 4000 K (lm/W) [G]	Total power at maxi. flux (W) [C]	LED flux at Pmax 4000 K [D] (lm)	Output flux at Pmax 4000 K [E] (lm)	Output flux at Pmax 3000K [E] (lm)	Options [F]				
				Fixed	Ajustable (Imax)						POLEDRIVE Dimming 5 Motion P DALI, FC [11]	Motion, Motion 5	Motion DALI	Motion+Com	Lighting control
TILT T3	48	**PADLED 3** (4BLS12)	7		700	147	101	15773	12278	11050	√				
	60	**PADLED 3** (5BLS12)			700 [6]	154	123	19716	15347	13812					
TILT T4	112	**PADLED 4** (14BLS8)	7		700	150	233	36803	29878	26890	√				
TWEET «Origin» 1 : S1, X1 (Level 3E[13])	8	1BLS8	10		700	117	19	2629	1903	1713	√				
	16	2BLS8				133	34	5258	3805	3425					
	24	3BLS8			700 [6]	128	53	7886	5707	5136					
TWEET «Origin» 2 : S2, X2 (Level 3E[13])	24	2BLS12	7		700	138	53	7886	5707	5136	√				
	36	3BLS12			700 [6]	146	77	11830	8561	7705					
TWEET «Origin» 3 : S3, X3 (Level 3E[13])	48	4BLS12	7		700	147	101	15773	11415	10274	√			√	√
	60	5BLS12			700 [6]	154	123	19716	14267	12840					
XEON 2	6	Spécifique	5		700	120	50	6240	5543	4989	√			√	√
XEON 3	9 [7]	Spécifique	4		700	120	73	9360	8033	7229					
ZELDA S1, X1 (Level 3E[13])	8	1BLS8	10		700	117	19	2629	1981	1783	√	√	√	√	√
	16	2BLS8				133	34	5258	3963	3567					
	24	2BLS12			700 [6]	132	53	7886	5943	5349					
ZELDA S2, X2 (Level 3E[13])	36	3BLS12	7		700	146	77	11830	9081	8173	√			√	√
	48	4BLS12				147	101	15773	12109	10898					
	60	5BLS12			700 [6]	154	123	19716	15136	13622					
ZELDA S3, X3 (Level 3E[13])	80	4BLS8 + 4BLS12	7		700	148	166	26288	20052	18047	√				
	100	5BLS8 + 5BLS12			650	149	184	31217	23275	20947					
	120	6BLS8 + 6BLS12			600	151	205	35094	25781	23203					
ZENDA	21	Spécifique	3	350,700	700 [5]	88	47	5342	3773	3396	√				
	30	Spécifique				88	67	7632	5391	4851					
ZESTO	24	2BLS12	10		700	138	50	7886	6214	5593	√				
	36	3BLS12	7			146	74	11830	9321	8389					
	48	4BLS12	7			146	101	15773	12427	11184					
TEAM (Bollard)	8	Spécifique	2		700	101	19	2629	1857	1671	√[11]				
TAÏGA (Bollard)	8	1BLS8	1		700	98	19	2629	1789	1610	√[11]				
TREK (Bollard)	8	1BLS8	1		700	98	19	2629	1789	1610	√[11]				
ZESTO (Bollard)	8	1BLS8	1		700	98	19	2629	1789	1610	√[11]				
PIXEL (Bollard)	8	1BLS8	1		700	98	19	2629	1808	1627	√[11]				

(A) LED modules and optics definition: refer to page 10 from catalogue **(B)** Maximal current value **(C)** Total power absorbed by the luminaire including all electrical equipment, as per IEC 62717 and IEC 62722 standards. **(D)** Flux from LED sources under Tj = 85°C, based on LED date sheet for a specific bin at 4000K **(E)** Output flux from the luminaire at commissioning (including thermal and optical yields compared to the Flux from sources) for given optics, maximal current and ambient temperature 25°C, as per IEC 62717 and IEC 62722 standards. **(F)** Options definition: refer to pages 12 – 15 from catalogue.
(1) Standalone option or compatible with CA5 and DE + CA5 **(2)** DE by factory programming, DE + COM not available **(3)** 8 LED for bowl backlighting, independent from the 28 LED used for street **(4)** SONATA O: 4 RGBW LED used for facade illumination, up to 35W, PFI, PFM or PFL lenses available **(5)** Optionnal **(6)** Option DE + COM not available **(7)** Floodlight available with conventional sources COSMO 60W, 90W and 100W G12
(8) DALI, REP/CA2P, DEDP: Only for Class II luminaire and factory pre wired **(9)** Options DE, DE+CA5, DEDP and DE + COM not availed with SONATA O **(10)** Options REP, CA2P, DEDP, DALI and FC non available **(11)** Option DEDP non available
(12) Without options **(13)** Unique setting : Fixed Dimming Scenario from 11h00 PM till 5h30 AM under 350 mA, 700mA for the remaining time.

Constant progress

The performances of LED sources change rapidly. The attached table lists the characteristic values of the luminaires in February 2018. Consult the ECLATEC website for information which is constantly updated. www.eclatec.com.

Interpretation of data and lighting studies

Luminaire efficiency data vary according to the following hypothesis: maintenance factor, output flux (from LED component or luminaire), ambient temperature or colour temperature.
Performance may change for the same equipment following parameters used.
Values mentioned on the table (as well as on the luminaires data sheet) consider the following hypothesis:

- Output flux values are considered after initial set-up
- Power values consider the total consumption including all electrical equipment.
- Ambiant temperature: 25°C

Illumination and positioning calculation from Eclatec are not based on the setup flux, but consider a maintenance factor of 89 to 94% for LED projects.

LUMINAIRES

CATALOGUE 2018

The right product at the right place,

Since 1927, the ECLATEC offer has been based on careful attention to social, urban and technical developments.

Today, these trends place **Life, the Town and Nature** at the focus of ECLATEC's urban lighting design.

Proposing the right solution which contributes to the **harmony of urban sites** in all their diversity involves opening up the range of choices. The ECLATEC offer includes decorative and functional lighting for pedestrian or roadway applications in contemporary or more conventional styles.

Reducing energy consumption and providing the **right level of lighting** according to the context also means offering a wide range of high-performance technologies whether it be for light sources (standard or LED), equipment or options.

This collection presents the main public lighting solutions designed and manufactured by ECLATEC.

The first pages contain decorative lighting, mainly for pedestrian areas, then roadway and functional appliances. These are followed by neo-classical or classical luminaries, and lastly the range of other ECLATEC products (bollards, lightstacks, floodlights, brackets, etc.).

Your local agent will be delighted to provide you with further information and news on these products and their developments.

ECLATEC,
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Flashcode

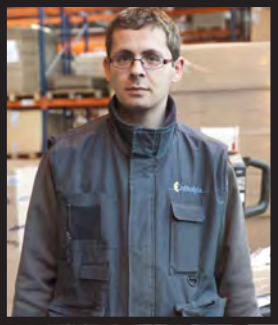
Web

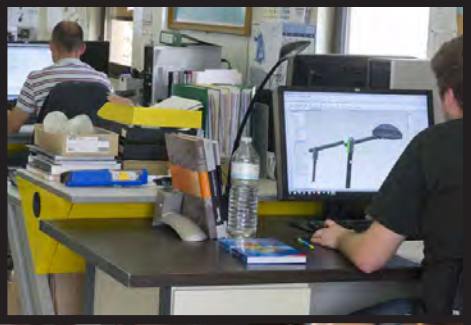
ECLATEC, Life, town, nature

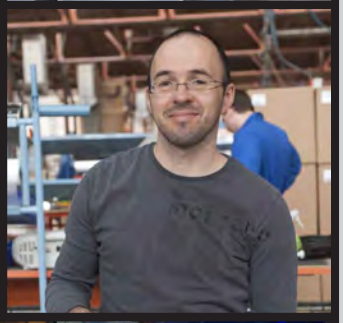
Due to the rapid development technology, visit www.Eclatec.com for the latest information.

Augmented reality

The ECLATEC mobile application allows capture and display of the luminaires in this 3D catalogue.
- Go to the store Google play App Store for your mobile and download the application.
- Install and start the application.
- Film the image containing the pictogram to see the product in 3D.







Eclatec manufactures in France. Its facilities are located in Lorraine (Maxéville and Mirecourt).

Summary

o GHM product

ECLATEC: life, the town, nature

Since it was founded in Lorraine in 1927, ECLATEC has specialised in lighting and its applications in an urban context.

Life, the town and nature are central to ECLATEC design approach.
To this end, the company is constantly investing in its human, technical and industrial resources, and is continuously adapting its solutions.

This specific resources are key advantages to anticipate with velocity and utmost attention with regard to market trends and customer requirements.

Study resources and know-how to fuel the imagination

Mechanical and photometric design offices, a large database, a laboratory equipped with specific measuring and test equipment and a prototype department pursue a creative approach.

Ongoing collaboration with renowned designers in the trade coherently combines the major evolutions in architecture and technology, particularly LED technology.

Integrated production

In its immediate sphere (subsidiary or parent company) ECLATEC has integrated industrial production, providing perfect mastery of the design and manufacture of lighting solutions.

Product quality

The company focuses on offering high-quality products, a concern which runs through all phases of production from design, manufacturing and assembly through to end of life, with a high level of recyclability through the use of high-quality materials.

Most of the bodies of our lights are therefore made of die-cast aluminium, guaranteeing that components provide a highly accurate fit. ECLATEC generally has high IP codes and IK numbers.
Maintenance is given priority with the use of interchangeable LED modules.

In addition to the quality of manufacturing, the optical performances of ECLATEC lighting are widely recognised.

Strong presence in France

ECLATEC holds a significant market share on its home market through around fifteen regional agencies.

A world presence

Moreover, ECLATEC lighting has always been present in Europe and elsewhere in the most demanding contexts.

Thus, after installing lighting in the streets and avenues of Moscow in the 1980s, close to 100,000 ECLATEC lights today illuminate Rome and its suburbs.

Moscow, Brussels, London, Stockholm, Budapest, Rabat,Kuala Lumpur and Canberra are all capitals opting for ECLATEC products and their quality.

An export service based at the head office, in coordination with the design office, proposes solutions adapted to every situation; in many countries, agents also visit projects on-site to ensure recommendations are fully adapted to the context.

STANDARDS AND CERTIFICATION

Standards

The design of ECLATEC luminaires takes into account the European regulations and standards.
Thus, the characteristics of ECLATEC products are determined and expressed in compliance with the following provisions in particular:

- **NF EN 60598:** general regulations concerning design and testing
- **NF EN 60529:** tightness to dust and humidity (IP)
- **NF EN 62262:** resistance to impacts (IK)
- **NF EN 55015:** measurement of the electromagnetic emissions from the lights
- **NF EN 61000:** electromagnetic compatibility (EMC)
- **UTE C 15-100:** design of low voltage electrical installations
- **NF C 17-200:** regulations relating to public lighting installations
- **UTE C 17-205 guide:** determination of the cross-sections of conductors and the choice of protection devices
- **NF EN ISO 1461:** hot-dip galvanisation

Above and beyond these regulations regarding mechanical and electrical design, ECLATEC adheres to two standards in particular which are critical to the definition of lighting solutions:

• EN 13201:

M type categories (Table 1) correspond mainly to roads intended for medium to high speed traffic. The reflector system on the luminaire and its location should provide results in terms of:

- average luminance,
- general luminance uniformity,
- longitudinal luminance uniformity,
- dazzle control (f_{TI}),
- surround ratio (R_{EI})

Class	Road surface luminance for a dry road			Disability glare	Edge lighting
	Average L [minimum maintained] cd/m²	Uo [minimum]	Ull [minimum]	f_{TI} [maximum] %	R_{EI} [minimal]
M1	2,00	0,40	0,70	10	0,35
M2	1,50	0,40	0,70	10	0,35
M3	1,00	0,40	0,60	15	0,30
M4	0,75	0,40	0,60	15	0,30
M5	0,50	0,35	0,40	15	0,30
M6	0,30	0,35	0,40	20	0,30

Table 1: The M classes are intended for drivers of motorised vehicles for driving on roads at medium or high speeds.

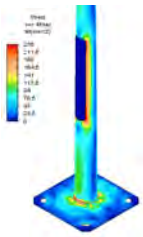
C type categories (Table 2) or S type categories correspond to roads intended for automobile traffic in complex situations and pedestrian and cycle paths.

The performances to be achieved are expressed in terms of average lighting and general lighting uniformity. The diverse nature of situations has prompted ECLATEC to develop a range of suitable optical systems.

Class	Horizontal lighting	
	Average E [minimum maintained] lx	Uo [minimum]
C0	50	0,40
C1	30	0,40
C2	20	0,40
C3	15	0,40
C4	10	0,40
C5	7,5	0,40

Table 2: The C classes are intended for drivers of motorised vehicles or other road users, in difficult situations such as shopping streets, intersections of a certain complexity, roundabouts, traffic queues, etc. The C classes can also be used in spaces used by pedestrians and cyclists, for example underground passageways.

• EN 40:



This Norm concerns the sizing of the poles and brackets, the corresponding methods of calculation, the industrial procedures and the qualifications of the operators involved in the manufacture of this equipment.
ECLATEC is accredited by the CTICM (www.CTICM.com) under reference numbers 1166–CPD–0059 and 1166-CPD-0066.

ECLATEC is therefore qualified to size the equipment installed in a location where we have been informed of the wind exposure characteristics and the nature of the land.

Certifications

The procedures carried out within the company adhere to recognised standards with regard to quality and the environment (the company is ISO 9001 and ISO 14001 certified).

Intellectual property, brands and models:

ECLATEC holds all the intellectual property rights concerning its projects, studies and documents of all types. These may not be communicated or executed without written authorisation from the company. The technology and expertise and all the industrial and intellectual property rights pertaining to the products and services remain the exclusive property of the company. The purchaser is only granted the right to use the products in a non-exclusive way.
All the models and brands of luminaires and assemblies are registered as industrial and intellectual property with the relevant patent office.

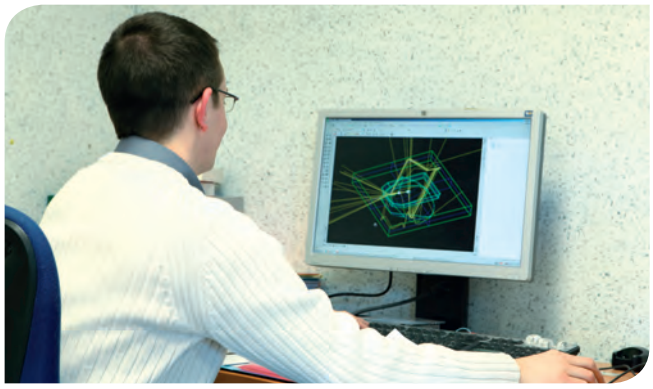
Optimum lighting

«Optimum lighting» is ECLATEC priority.

ECLATEC is constantly aiming to optimise lighting through its developments, by reducing energy consumption as far as possible whilst ensuring compliance with the specifications in terms of standards, lighting, brightness, spacing, uniformity, ULOR, visual comfort and light pollution.

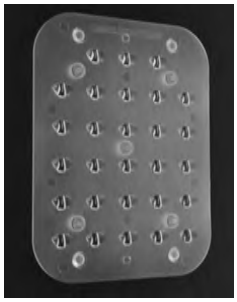
At the lighting design stage, this optimisation begins by the design of high-performance optical solutions combining equipment, sources and optical devices to best possible effect.

Design teams have specialised software, dedicated technical design means (photogoniometer, integrating sphere, laboratory, IP and IK tests, etc.) and a large database at their disposal, ensuring the development of high-performance solutions adapted to each purpose.



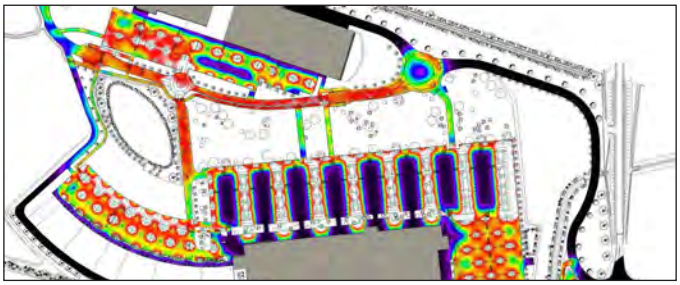
With its recognised expertise, ECLATEC designs all its reflectors and LED lenses.

Individual lenses



Mono lense

This approach also involves a lighting design specific to each context: the ECLATEC Lighting Consultancy department recommends the right solution on a case by case basis. According to the context in question, this recommendation defines the heights and spacing between the lights, their power, the type of optical units and their optimum setting.

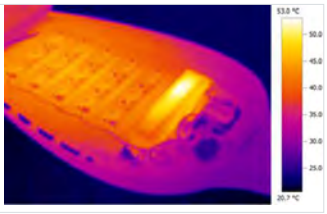


ECLATEC offers multiple options to supplement our recommendations, in particular with regard to LED solutions, maximising energy savings (power adjustments on-site, presence detectors, dimming controllers, etc.).

POLEDRIVE: Adjustable current option / Dimming Controller Option

Lighting, long term

Maintaining the photometric performance over time means designing equipment that will last.



This requires a high-quality mechanical construction (sizing and design taking into account thermal dissipation), a selective choice of materials and manufacturing techniques (LED, die-cast aluminium parts, glass, extruded silicone joints, active carbon filter) and devices to limit the consequences of over-voltages for example.

Products also undergo extensive testing before they are put on the market, and the modularity of the design means that solutions can be upgraded over time.

MODULES AND OPTICS

LED Modules

ECLATEC's range of LED solutions consists partly of dedicated luminaires, whose components are an integral part of the devices, but especially of luminaires that can take easily separable modules.

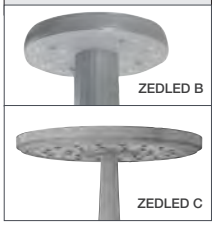
This is the case for the following modules:

ORALED

ORALED 1 *:* Elyxe, Reflex, Elipt 45, Chorus 45, Metro 45, Indice 500, Link, Tsana 45, Nismo, Saga, Aldus, Odelia 550, Perle et Chenonceaux III

ORALED 2 : Elipt 55, Chorus 55, Metro 55, Odelia 670, Indice conic, Ysalis, Indice 620 et Tsana 55

ZEDLED



ZEDLED B *:* Idylle, Orientis

ZEDLED C *:* Texto, Buzz

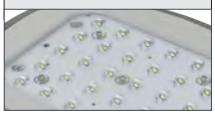
PADLED

PADLED 1 *:* Tilt T1
PADLED 2 *:* Tilt T2
PADLED 3 *:* Tilt T3
PADLED 4 *:* Tilt T4

KIDLED

KIDLED : Mamba, Amarante

TABLED



TABLED 2 : Moana, Clip, Murena, Paleo, Eclat, Taïga

LEOLED

LEOLED : Reflex Indirect

SOMLED 1

SOMLED 1 : Stanza, Beauregard II

BLS Strips

Barrettes BLS : Elipt 45 et 55, Chorus 45 et 55, Chorus X, Tsana 45 et 55, Stelium S1/X1, S2/X2, Tweet «Néo» S1/X1, S2/X2, Tweet «Origin» S1/X1, S2/X2, S3/X3, Zelda S1/X1et S2/X2, Like,Link, Sonata, Pixel 1 et 2, Ixis 1 et 2, Enza, Tsana X, Zesto, borne Taïga, borne Trek, borne Zesto, Beauregard II, Stanza

These modules are what make our solutions upgradeable and interchangeable. They ensure the continuity of repairs and replacement in future years.

Optical distributions

A large choice of optical distributions, each targeted for a different use, makes LED solutions even more efficient.
The photometric distributions offered cover the following uses:

«EC»: Uniform distribution of light around the luminaire, particularly suitable if the luminaire is in the centre of the area to be lit (car park, park, ...)

- **ECL:** large circular lighting distribution
- **ECa :** circular lighting

«ER»: Road-type spatial distribution for narrow to wide roads, particularly suited to «ME» type projects under EN 13201, for which luminance is not the main criterion.
ER-type distributions mean that the poles can be spaced further apart, whilst still providing good uniformity of illuminance.

- **ERE:** narrow road luminance
- **ERS:** standard road luminance
- **ERL:** wide road luminance

«LR»: Road-type spatial distribution for narrow to wide roads, particularly suited to «ME» type projects under EN 13201.
This class concerns roads subject to sustained vehicle traffic.
LR-type distributions provide excellent visual uniformity, as well as a high level of user comfort.

- **LRS:** standard road luminance
- **LRL:** wide road luminance
- **LRM:** mixed road Luminance

«EP»: Luminaire placed upstream of the crossing section, in the moving traffic direction, for a two-way street application

- **EPD:** pedestrian crossing lighting Right

Luminaire in addition to EPD, placed upstream of the crossing section, for wide one-way street application

- **EPG:** pedestrian crossing lighting Left

PFI: Narrow beam spread

PFM: Medium beam spread

PFL: Large beam spread

PFA: Asymetric beam spread

EAH: Dedicated LED module for accessibility of disabled persons (PMR)

ETS: Iluminance Standard Sidewalk

Rearward light spill covers available for BLS distributions, except EPD and EPG

The following table summarises the module associations for each luminaire and specifies the available optical variations (distributions and colour temperatures):

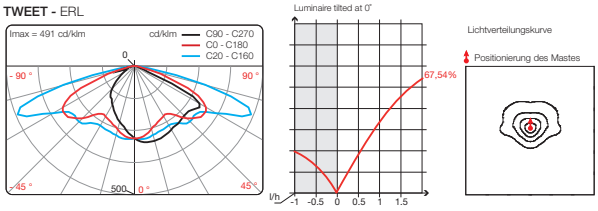
Modules PCB	Removable	Lenses	Luminaires	Distributions																Colour temperatures
				Projecteurs				Lighting (spacing)								Luminance (uniformity)				
				Beam spread				PMR	Pedestrian crossing		Sidewalk	Circular	Road-type			Road-type				
				Narrow	Medium	Large	Asy.	Accessibility of disabled persons	Left	Right	Standard		Narrow	Standard	Large	Narrow	Standard	Large	Mixed	
ALOA		Individual	Aloa														LRS	LRL		4100 K
BLS 8	•	Mono lense + bowl	Bornes PMR : Trek, Taïga, Zesto					EAH				ECa								3000 K 4000 K
			Elipt 45, Chorus 45, Tsana 45, Pixel 1, Tweet «Origin» et «Néo» 1 , Zelda 1, Stelium 1, Ixis 1, Lexik, Link				PFA		EPG	EPD	ETS	ECa	ERE	ERS	ERL		LRS	LRL		3000 K 4000 K
BLS 12	•	Mono lense + bowl	Sonata, Zelda 1, Ixis 2, Zesto, Stelium 1, Tweet «Néo» 1, Lexik, Link				PFA		EPG	EPD	ETS	ECa	ERE	ERS	ERL		LRS	LRL		3000 K 4000 K
			Elipt 55, Chorus 55, Tsana 55, Pixel 2, Tweet «Origin» 2 et 3, Zelda 2, Tsana X, Chorus X, Stelium 2, Tweet «Néo» 2, Lexik, Stanza, Beauregard II				PFA					ECa	ERE	ERS	ERL		LRS	LRL		3000 K 4000 K
BLS 8 and BLS 12	•	Mono lense + bowl	Enza 25 LED				PFA					ECa	ERE	ERS	ERL		LRS	LRL		3000 K 4000 K
KIDLED	•	Mono lense	Mamba											ERS						3000 K 4000 K
		Mono lense + bowl	Amarante	PFI	PFM									ERS						
LEOLED	•	Mono lense	Reflex indirect									ECL								**3500 K**
ORALED 1	•	Mono lense	Elyxe, Reflex direct, Elipt 45, Chorus 45, Metro 45, Indice 500, Tsana 45, Nismo, Saga, Aldus, Odelia 550, Perle, Chenonceaux III, Link									ECL		ERS	ERL				LRM	3000 K 4000 K
ORALED 2	•	Mono lense	Elipt 55, Chorus 55, Metro 55, Indice 620, Tsana 55, Odelia 670, Indice conic, Ysalis											ERS	ERL	LRE			LRM	3000 K 4000 K
PADLED	•	BLS Mono lense + bowl	Tilt T1, T2, T3, T4				PFA		EPG	EPD	ETS	ECa	ERE	ERS	ERL		LRS	LRL		3000 K 4000 K
PRIORILED	•	Mono lense	Prioriled						EPG	EPD										6500 K
SCOOP SCOOP KEA		Mono lense + bowl	Scoop, Scoop Kea									ECL		ERS	ERL					3000 K 4000 K
BACKLIGHTING SONATA O		Mono lense + bowl	RÉTROÉCLAIRAGE Sonata O	PFI	PFM	PFL														RGBW
TABLED 2	•	Mono lense	Eclat, Paléo, Murena, Clip, Moana, Taïga											ERS	ERL				LRM	3000 K 4000 K
TILT ORIGIN		Mono lense	Tilt Origin														LRS	LRL		3000 K 4000 K
TEAM	•	Mono lense + bowl	Borne PMR : Team					EAH				ECL								3000 K 4000 K
ZEDLED B	•	Mono lense + bowl	Idylle, Orientis									ECL		ERS	ERL					3000 K 4000 K
ZEDLED C	•	Mono lense + bowl	Buzz, Texto									ECL		ERS	ERL				LRM	3000 K 4000 K
ZENDA KEO		Individual + bowl	Zenda, Keo									ECL	ERE		ERL					3000 K 4000 K
XEON 2	•	Mono lense + bowl	Xeon 2	PFI	PFM	PFL								ERS	ERL					3000 K 4000 K
XEON 3	•	Mono lense + bowl	Xeon 3		PFM	PFL								ERS	ERL					3000 K 4000 K
SPECIFIC 12 LED		Mono lense + bowl	Like									ECL		ERS	ERL					3000 K 4000 K
SPECIFIC 21 LED	•	Mono lense + bowl	Index									ECL		ERS	ERL					3000 K 4000 K
SOMLED 1	•	Mono lense +bowl	Beauregard II, Stanza									ECL		ERS	ERL					3000 K 4000 K

INTERPRETATION OF PHOTOMETRIC CURVES

The intensity curves describe the light distribution of the luminaire. The light intensity is the quantity of light emitted in one direction. It is expressed in candela. By convention these curves are rounded to a flux of 1000 lumens.

The utilisation factor is defined as the ratio of the flux received by a surface of reference to the flux emitted by the light sources allocated to light this surface.

The utilisation factor curves presented allow the utilisation factor to be read for a section of the roadway (right part of the curve) or the pavement (left side of the curve).



CAUTION: *These curves can be used in an initial approach as a criterion for selecting an appliance. However, the conformity of a solution requires a comprehensive check by the ECLATEC Lighting Consultancy department.*

Exemple
E.g.

Height of the assembly: 10 m
Width of the roadway: 8 m
Distance the light is set back from the road: 1 m

The utilization factor for the roadway will be the difference between the utilisation factor for
a value of 0.9 (i.e. 8 m + 1 m to be divided by the height of 10 m) and the utilization factor for a value of 0.1 m (set back distance/ height).

This utilisation factor can thus be used to obtain the average lighting by calculating:

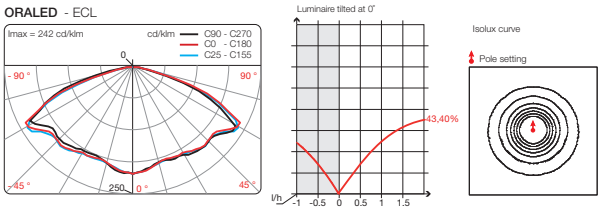
$$Em = \frac{\Phi\,\text{lamp} \times u}{\text{Width} \times \text{Spacing}}$$

Φ lamp = flux of the lamp, u = utilisation factor

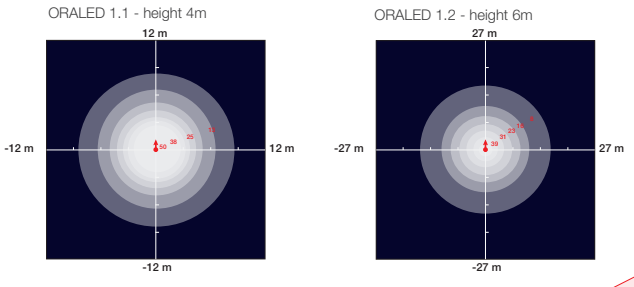
A large choice of optical distributions, each targeted for a different use, makes LED solutions even more efficient. The photometric distributions offered cover the following uses:

ECL: large circular lighting distribution

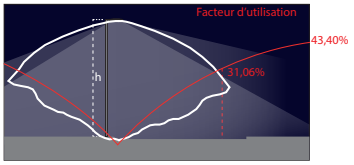
- Uniform distribution of light around the luminaire, particularly suitable if the luminaire is in the centre of the area to be lit (car park, park, ...)

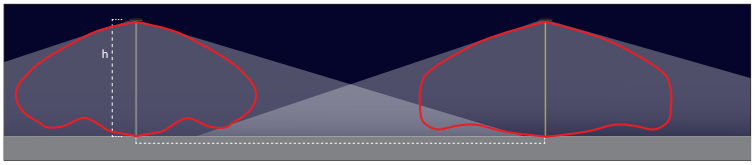


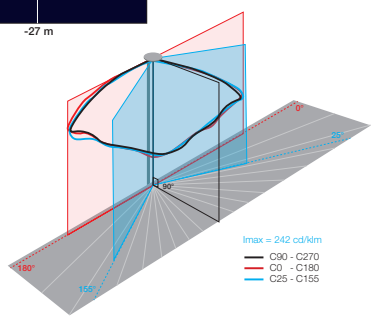
Example of ground illumination with ECL optics



Photometric distribution ECL



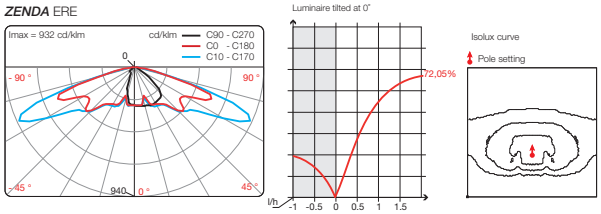




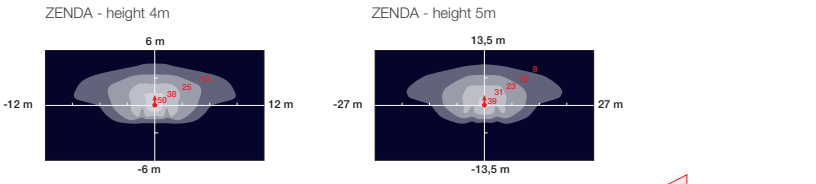
Spacing priority

- Road-type spatial distribution for narrow to wide roads, particularly suited to «ME» type projects under EN 13201, for which luminance is not the main criterion.
- ER-type distributions mean that the poles can be spaced further apart, whilst still providing good uniformity of illuminance.

ERE: narrow road luminance

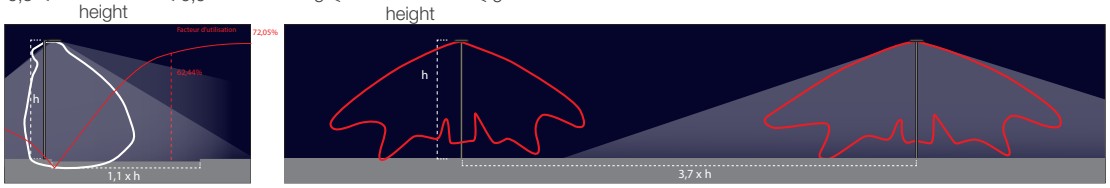


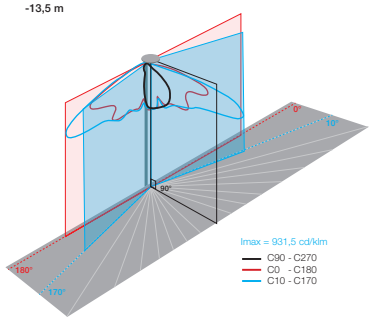
Example of ground illumination with ERE optics



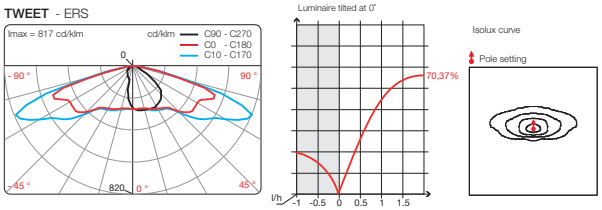
Photometric distribution ERE

$$0{,}5 < \frac{\text{width}}{\text{height}} < 0{,}9 \qquad 5 < \frac{\text{spacing}}{\text{height}} < 6$$

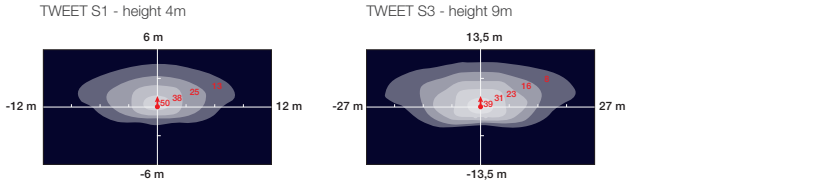




ERS: standard road luminance

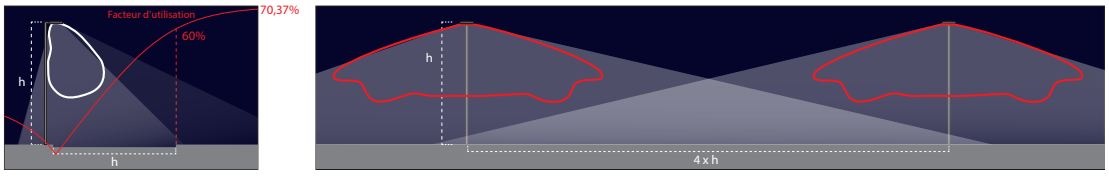


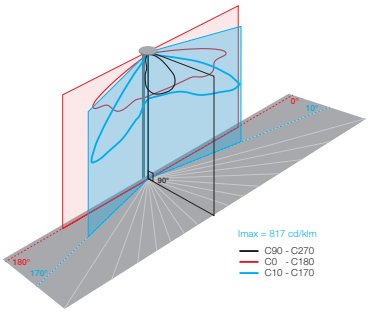
Example of ground illumination with ERS optics



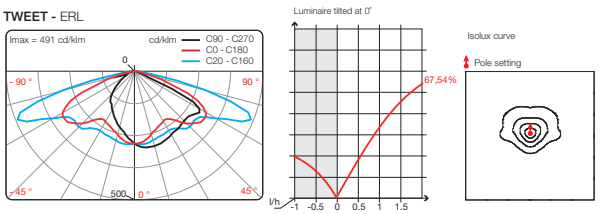
Photometric distribution ERS

$$0{,}8 < \frac{\text{width}}{\text{height}} < 1{,}2 \qquad 4 < \frac{\text{spacing}}{\text{height}} < 5{,}5$$

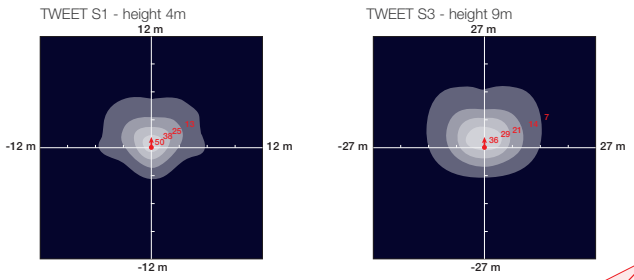




ERL: wide road luminance

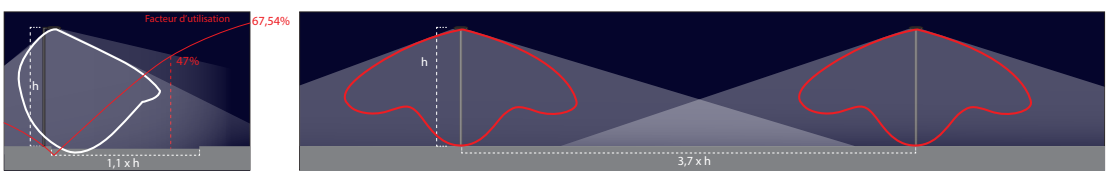


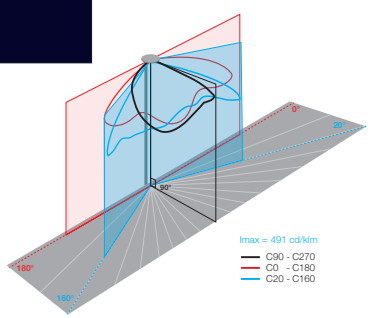
Example of ground illumination with ERL optics



Photometric distribution ERL

$$1{,}1 < \frac{\text{width}}{\text{height}} < 1{,}7 \qquad 3{,}7 < \frac{\text{spacing}}{\text{height}} < 4{,}7$$



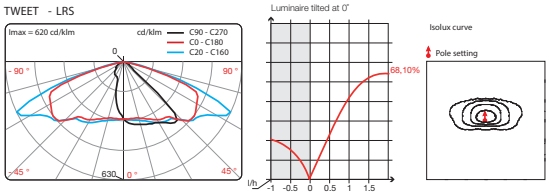


INTERPRETATION OF PHOTOMETRIC CURVES

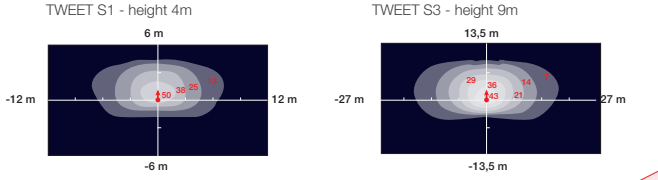
Uniformity priority

- Road-type spatial distribution for narrow to wide roads, particularly suited to «ME» type projects under EN 13201.
- This class concerns roads subject to sustained vehicle traffic. LR-type distributions provide excellent visual uniformity, as well as a high level of user comfort.

LRS: standard road luminance

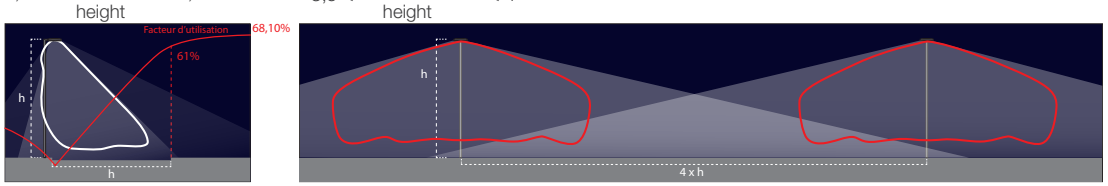


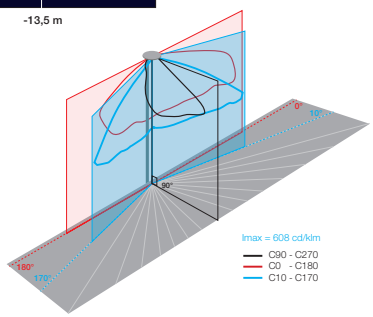
Example of ground illumination with LRS optics



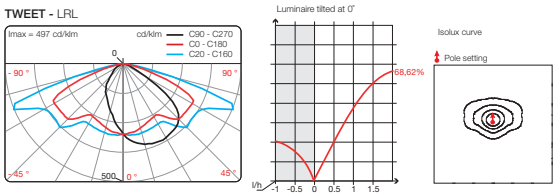
Photometric distribution LRS

$$0{,}8 < \frac{\text{width}}{\text{height}} < 1{,}2 \qquad 3{,}5 < \frac{\text{spacing}}{\text{height}} < 4$$

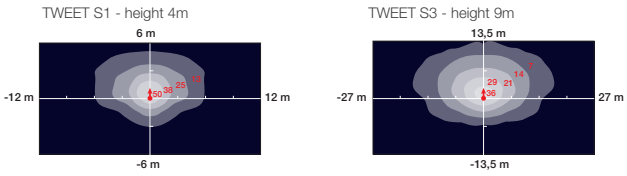




LRL: wide road luminance

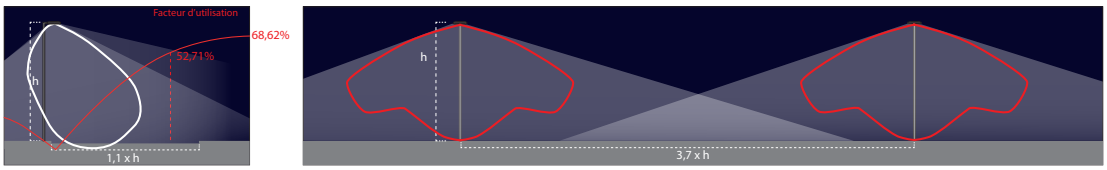


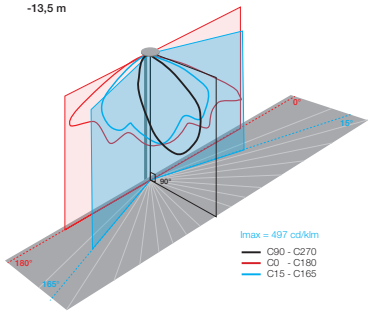
Example of ground illumination with LRL optics



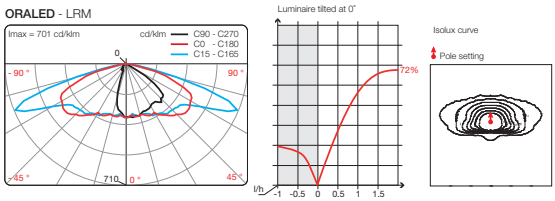
Photometric distribution LRL

$$1{,}1 < \frac{\text{width}}{\text{height}} < 1{,}5 \qquad 3{,}2 < \frac{\text{spacing}}{\text{height}} < 3{,}7$$

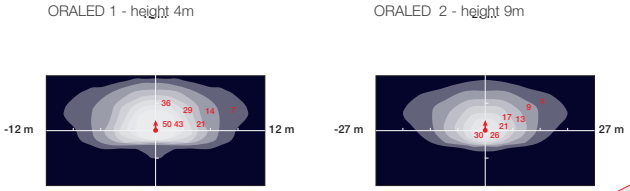




LRM: mixed road Luminance

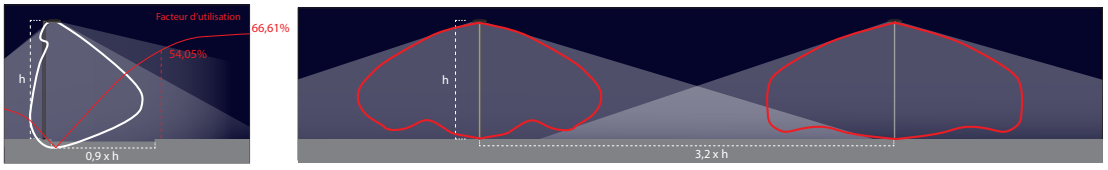


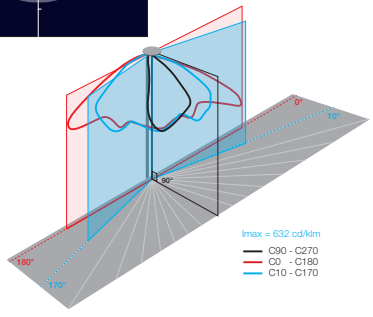
Example of ground illumination with LRM optics



Photometric distribution LRM

$$0{,}9 < \frac{\text{width}}{\text{height}} < 1{,}3 \qquad 3{,}2 < \frac{\text{spacing}}{\text{height}} < 3{,}7$$



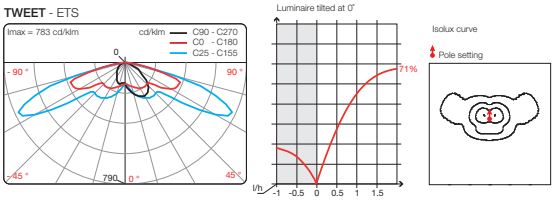


S-classes:

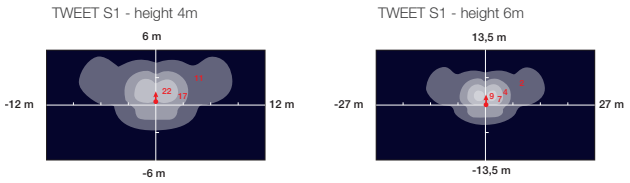
The lighting classes S1 to S7 are used for pedestrian and bicycle areas, stand and safety strips and other road areas outside the roadways, for representative streets, residential streets, pedestrian zones, footpaths, bicycle paths, parking streets, The lighting is evaluated according to the illuminance criterion.

Uniformity:

To ensure a certain uniformity, the actual value of the average illuminance may not exceed 1,5 times the minimum value for the class.



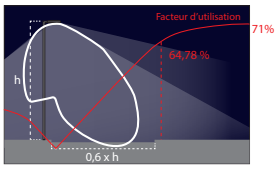
Example of ground illumination with ETS optics

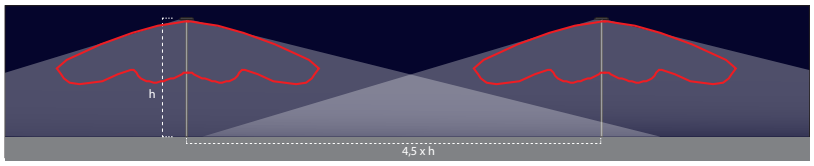


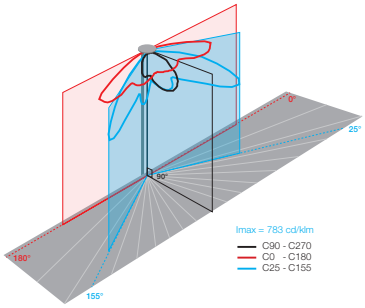
Photometric distribution ETS

$$0{,}6 < \frac{\text{width}}{\text{height}} < 1$$

$$4{,}5 < \frac{\text{spacing}}{\text{height}} < 6{,}5$$







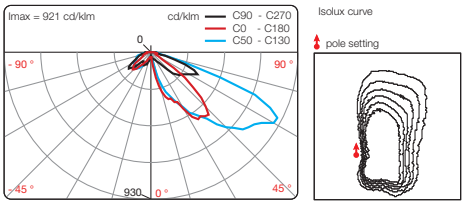
Lighting of pedestrian crossings

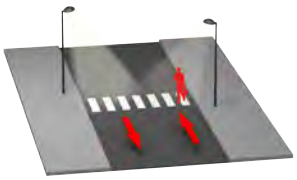
The pedestrian walkway must be illuminated so that pedestrians can be seen in the darkness and rainy road on the RDC and on the roadside at the roadside. The lighting must be dimensioned according to the requirements of DIN EN 13201 and DIN 67523.

If the values required by the standard are not reached by the existing street lighting, additional lights are required.

- **EPD: pedestrian crossing lighting Right**
  Luminaire placed upstream of the crossing section, in the moving traffic direction, for a two-way street application

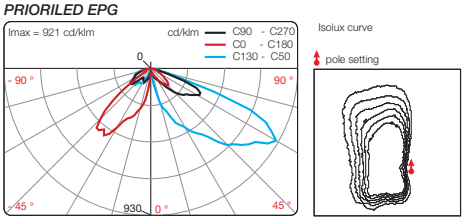
PRIORILED EPD

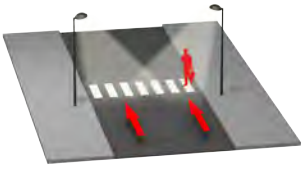




- **EPG: pedestrian crossing lighting Left**
  Luminaire in addition to EPD, placed upstream of the crossing section, for wide one-way street application

PRIORILED EPG





SETTINGS AND OPTIONS

Standard programming		
OPTIONS	SETTING	FC COMPATIBILITY
Standard version	Presets	YES
Dimming 5	Presets	YES
DALI	Presets	YES
Compensated flux option	Presets	/
Switch line	Presets	/

Options to choose from (extra charge)		
OPTIONS	SETTING	FC COMPATIBILITY
POLEDRIVE	Set in the bottom of the pole	YES
Motion	Set in the bottom of the pole	/
Motion 5	Presets	YES
Motion + Com	Set in the bottom of the pole	/
Motion P	Set in the bottom of the pole	/
Motion DALI	Set in the bottom of the pole	/
Lighting control	Remotely parameter	/

Choosing a luminaire

Basically, the choice of a luminaire will take account at least of the following information:

- Model of luminaire
- Size (if there are several sizes per model) + fixation
- Module (if there are several modules per model)
- Photometric distributions
- Colour of module (when there is a choice – typically sand grey 150 or 900 for ORALED)
- Colour temperature (if there are several temperatures per model)
- Current (if adjustable current)
- Options (depending on the choice for each model) RE, CA2, Dimming 5, Motion, Motion 5, Motion+Com; in the first cases, the setpoint values and the lighting/dimming times must be specified.
- Electrical Class

Initial factory settings (standard)

Fixed current

The Zelda S, Scoop S, Cadix and Prioriled luminaires use a fixed LED current setting, non-adjustable.
For all the other luminaires in the ECLATEC range, the current setting is adjusted prior to shipping by pre-programming in the factory.
This pre-setting following this procedure:

- When the order contains precise indications or a prior photometric study has been done, the corresponding power settings are applied.

The power supply current value varies depending on the luminaires from 75mA or 100mA to 700mA or 1000mA.

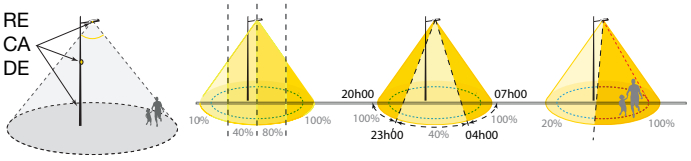
- By default, in the absence of such in indications or a prior photometric study, the setting corresponds to the maximum power supply.

Options

ECLATEC offers up to seven different options depending on the type of luminaire; however, four important points should be kept in mind:

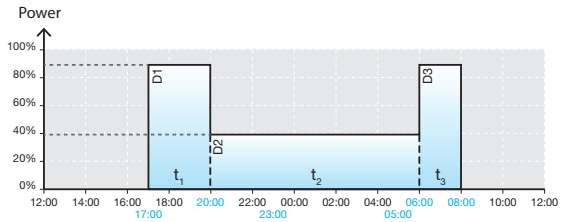
- not all the options can be combined with each other, (See compatibility table within compensates fl ux option)
- they are not necessarily all available on all the luminaires; compatibility details can be found in the table on the table of the front page,
- certain options require factory pre-setting, others can be adjusted on site,
- fi nally, once an option has been chosen, all the characteristics must be specifi ed when placing the order (high and low setpoints, lighting/dimming times, etc.).

Standalone solutions

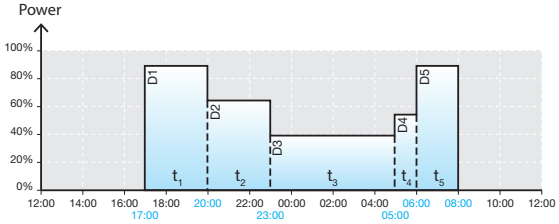


Dimming calculator option (Dimming 5)

The Dimming 5 dimming calculator allows a certain level of illuminance to be allocated to different times of day (from 2 to 5 slots).
Based on the daily operating time of the luminaire, a microprocessor in the power unit is able to determine the «middle of the night»; the dimming periods are adjusted around the «middle of the night» as so defined.
The times and dimming levels are **pre-programmed in the factory.**



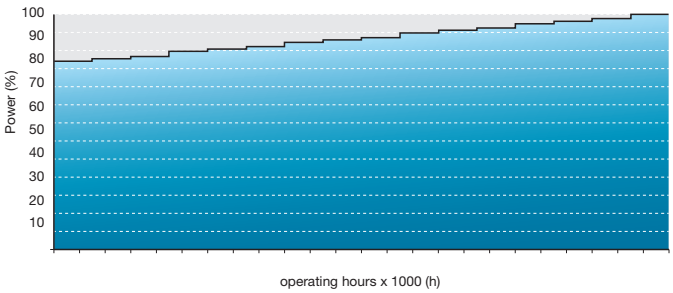
2 lighting levels



5 lighting levels

DALI system option

The luminaire is compatible with the majority of control modules using the DALI protocol.
DALI is a two-way data exchange protocol. Firstly, it allows each luminaire identified by its address to be accurately controlled and secondly, it is able to transfer data relating to its operation.
The DALI protocol requires two extra wires connected to the network.



In the example the depreciation factor used is 80% over the duration in question.

Compensated flux option (FC)

The FC option compensates for the depreciation of the luminaire by progressively increasing the supply current of the LED, autonomously and based on the number of operating hours.
The luminaire's luminous flux is therefore kept constant throughout its operating life, always providing the optimum quantity of light required.
The FC function only concerns certain luminaires (See the tabel of led solutions overview) ; it can be activated without any other options, but it is also compatible with the Dimming 5 and Motion 5 options (see table below)

Switch line

With the help of a second phase that acts as the control, this optional feature allows the activation of a second lighting level of the luminaire. For example, a 0 V control phase reduces the power level to 50 %.

Adjustable Current Option and Dimming Controller Option (POLEDRIVE)

This module to be installed at pole base will enable:

- Either modify constant LED current setting, Adjustable Current
- Or apply dimming scenario, Dimming Controller

Adjustable Current Option

This option allows the LED supply current to be adjusted.

The factory-set power can be **modified on-site** after installation of the luminaires

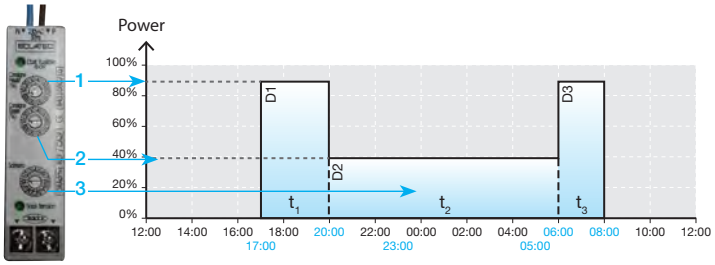
This operation can be carried out by an electrically-qualified operator by adjusting a rotating switch on a module fitted in the foot of the mast without switching off the power supply.
This module communicates with the luminaire via a DALI protocol.
It is therefore possible to subsequently upgrade easily to a remote management system using the same protocol.

Dimming Controller Option

This option allows a reduced power range to be selected from predefined scenarios, with two thresholds at the start and end of the night. A lighting level is allocated to this with high and low set-points.

The parameters are factory-set and can be **modified on-site** after installation.

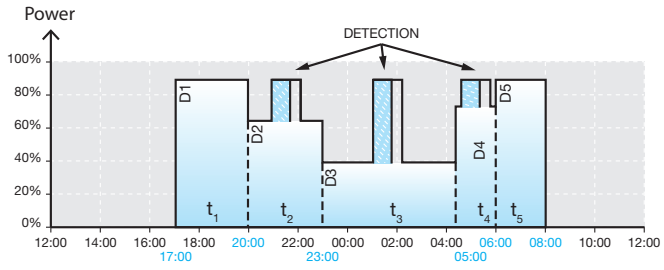
This operation can be carried out by an electrically-qualified operator by adjusting rotating switches on a module fitted in the foot of the mast without switching off the power supply.
This module communicates with the luminaire via a DALI protocol.
It is therefore possible to subsequently upgrade easily to a remote management system using the same protocol.



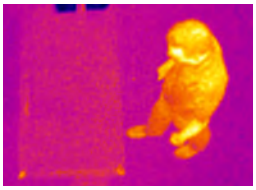
1 - High setpoint (Power adjustable on site from 10% to 100%)
2 - Low setpoint (Power adjustable on site from 10% to 100%)
3 - 14 pre-programmed night profile scenarios

Motion sensor and dimming calculator option (Motion 5)

Combining a motion sensor with a dimming calculator gives the cumulated advantages of the two options.
The detection function allows full lighting to be switched on for a given time, including during the dimming periods.
The times and dimming levels are **pre-programmed in the factory** by computer.

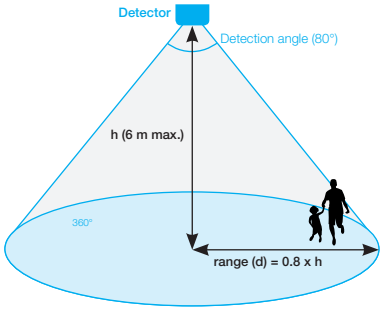


Detector option (Motion)

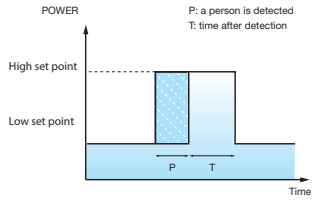


The proposed infra-red type detector uses temperature differences to operate

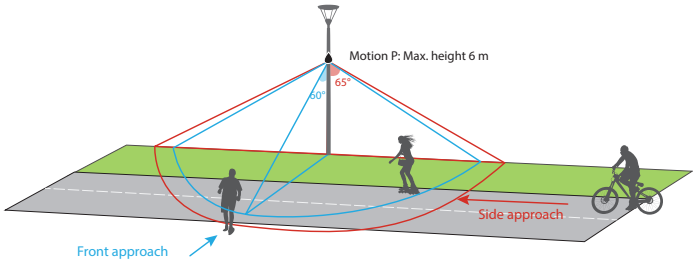
It adapts to a maximum height of 6 m and covers a detection angle of approximately 80°.



The presence detector is used to set two lighting levels and the time the light remains on after the person detected has left the area. Switching on the light can also be set according to the level of ambient light.
All these parameters are factory-set and can be modified on-site after installation by adjustments on the luminaire.



Motion P option (Motion P)



The Motion P option is composed of:

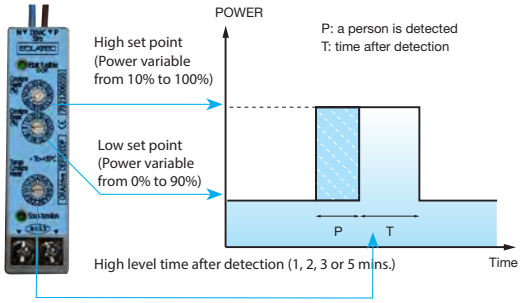
- a detection box with an infrared type detector operating on the measured temperature changes when pedestrians pass or cyclists pass at moderate speed.This detection module, which is available in two shades of grey, is fixed up to 6m on the pole.
- of a DALI control module which is installed at the foot of the pole.

The Motion P sleeve, which is built into the detection box, allows a top mounting on Ø 60 mm pole.

Standalone moving sensor

The Motion P option allows to configure:

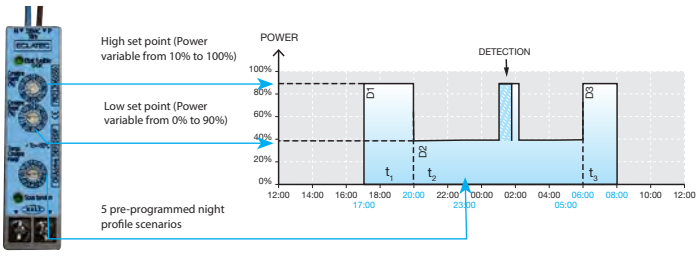
- two lighting levels: a low level when persons have not been detected, and a high level when a person is detected
- The high level time after the detected person has left the zone



The settings are pre-set in the factory by default and can be changed on site after installation. This work can be carried out by configuring rotating switches on the module housed in the foot of the pole, without cutting the power supply, by an operator who has an electricity qualification.

Moving sensor combined with dimming calculator

Offset detection also allows to combine the presence detection to a dimming calculator by configuring a rotating switch.



The settings are factory-set by default and can be modified on-site after installation.This operation can be carried out by an electrically-qualified operator by adjusting rotating switches on a module fitted in the foot of the pole without cutting the power supply.

This module communicates with the luminaire via a DALI protocol. It is therefore possible to subsequently upgrade easily to a remote management system using the same protocol.

Motion DALI Option

The Motion DALI option consists of:

• an infrared detector fully integrated into the luminaire, operating on the temperature change measured during the movement of pedestrians and cyclists at moderate speed. It is suitable for a maximum height of 6 m.

• a DALI control module, which is installed at the foot of the pole.

Like the Motion P option, this Motion DALI option allows:

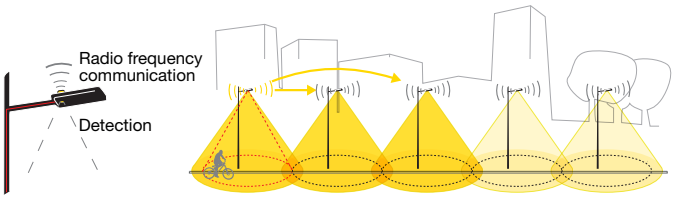
• detection alone, raising the lighting level when a pedestrian is detected,

• detection associated with a lowering calculator, defining a reduced power range associated with detection.

The parameters can be modified onsite after installation.

This action can be performed by adjusting rotary switches on the module located at the foot of the pole, without cutting the power, by a qualified electrician.

Local network grouped solution



This functionality allows extending the detection of a user to a group of luminaires by radio frequency communication.

The luminaires use the ZIGBEE protocol to communicate. It is possible to use the infrared movement detectors to detect pedestrians and cyclists and also radar to detect vehicles.

These various detectors, depending on their configurations, can be integrated into the luminaire or installed remotely. Their numbers and locations are variable to ensure optimum detection depending on user movement scenarios.

All parameters can be set and modified onsite with a PC and without the use of a lift platform.

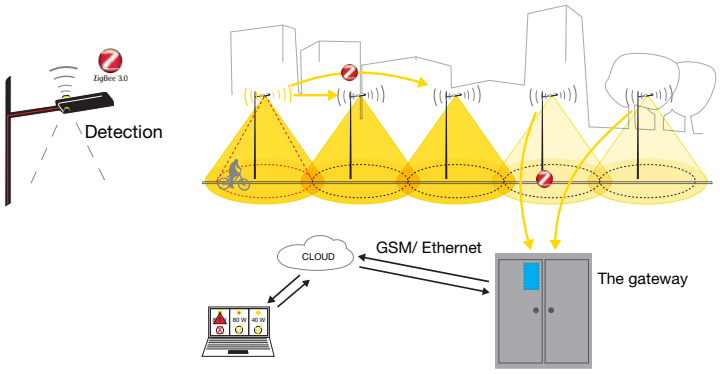
Given the variety of solutions, each case must be specifically studied.

This system can evolve to a remote-managed solution with the addition of a gateway.

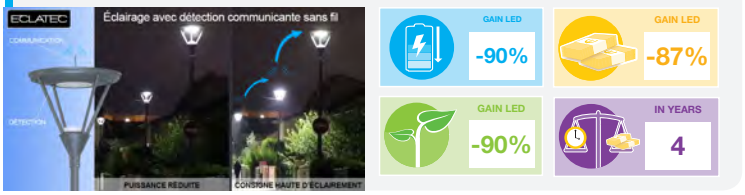
Switch line :
This option allows with the use of a second phase to parameter a second lighting level.

Remote-managed solution

This remote luminaires management system allows



Example of pedestrian application with wireless communication sensing
Elyxe 60 W discharge vs Elyxe LED Motion+COM: 70 % reduction (22 W ➡ 7 W) • 6 h/night on low



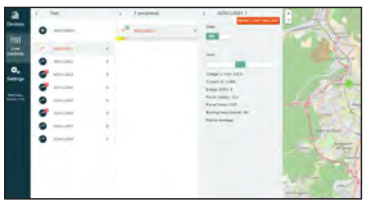
administration of a public lighting network via a Web interface. This functionality can improve the quality and reliability of the lighting and also reduce maintenance costs.

In effect, the bidirectional communications of this interface allow, on one hand, control of the lighting network (individual or grouped configuration according to a calendar) and, on the other, the precise monitoring of various luminaire parameters in real time and historically (power consumed, operating hours, failures, etc.).

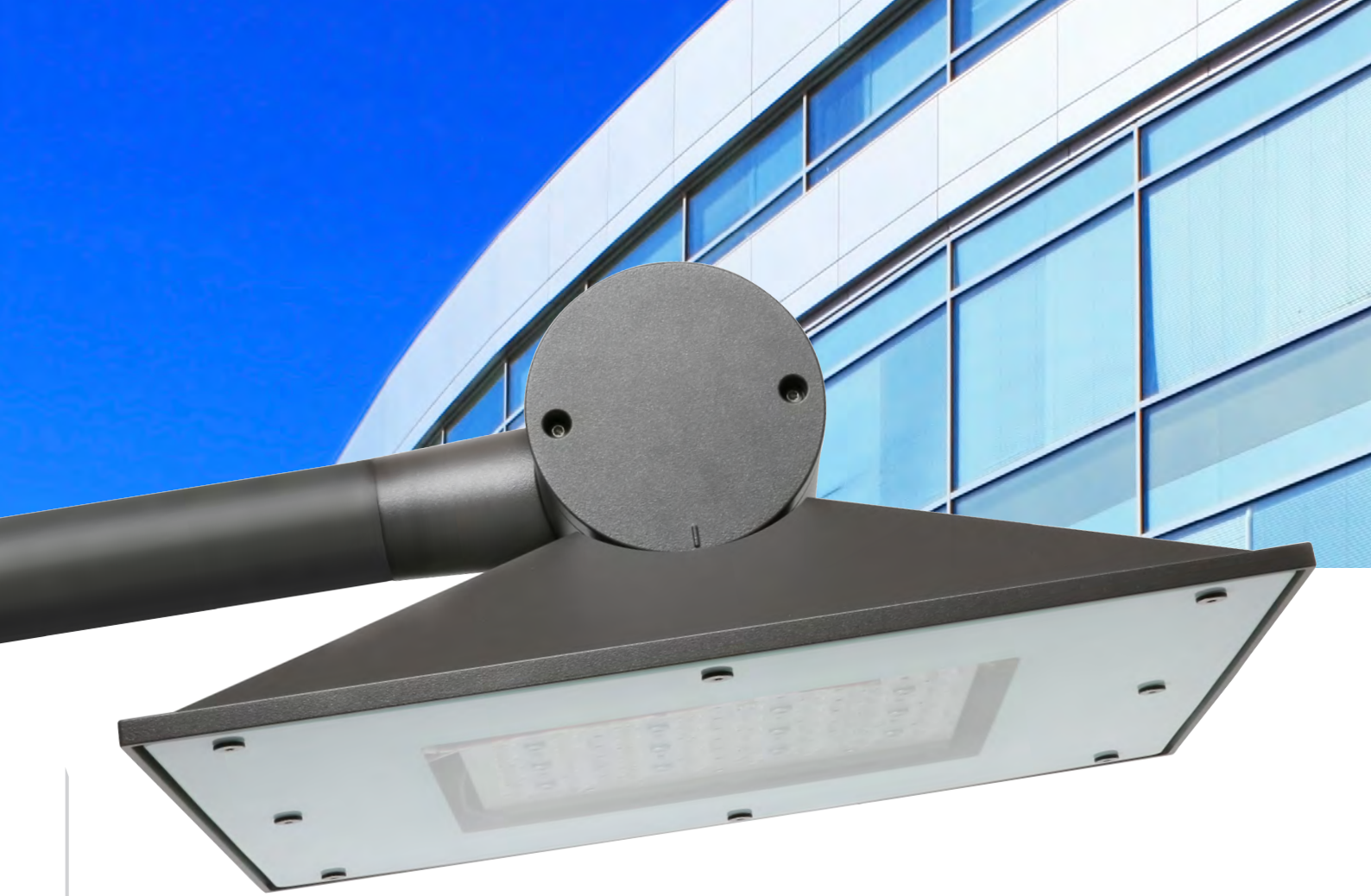
Information relating to any malfunction or failure of the installation can be sent via SMS and/or e-mail.

Programming at the factory, according to plans supplied by the customer, allows precise location of each luminaire which facilitates commissioning, without onsite registration and digital or manual mapping.

The luminaires communicate with each other by radio whether or not they are coupled to sensors (see previous page “Communication”) and, using the same protocol, they communicate with the gateway which is generally located in a cabinet. It communicates with the Cloud by GSM or Ethernet, depending on network coverage at the site. Management is performed by supervision software (proprietary or Streetlight Vision).



Luminaires



ZESTO

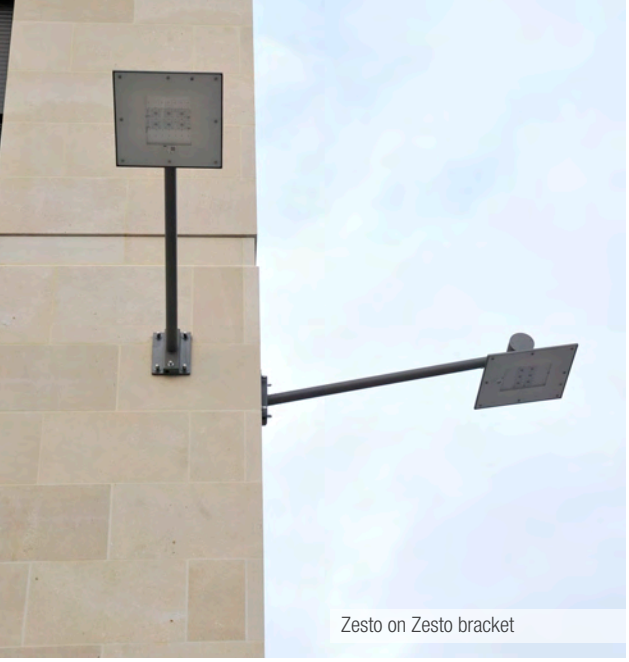
Luminaire design: Jean-Marie DUTHILLEUL

Architectural luminaire par excellence, **ZESTO** is comfortable in many urban contexts.

A successful design bringing together volumes that, by nature, clash into a configuration combining just the right amount of strength and softness; from this balance arises the soul of a well-conceived product, giving the town a signature that is both calming and up-to-date.

ZESTO is available in one size. Several specific models of cross-arms, brackets and bollards can be used with it.

BLS STRIPS



Zesto on Zesto bracket

Zesto Catenary

Zesto on Zesto bracket

ZESTO

Luminaire design: Jean-Marie DUTHILLEUL

RoHS | IP 66 | IK 10 | <1% 0°5° ULR | ZESTO : 4-8 m

ZESTO

APPLICATIONS

- Mounting: side and catenary
- Pedestrian areas, cycle paths, residential areas, street lighting
- Recommended heights: 4 to 8 m

DESCRIPTION

- Body and equipment compartment in die-case aluminium
- Bowl in thermally tempered and screen printed glass
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ORALENS** mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 66%, Glass 24%, Steel 5%, Other 5%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

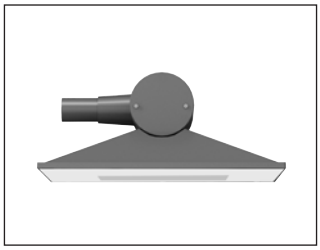
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

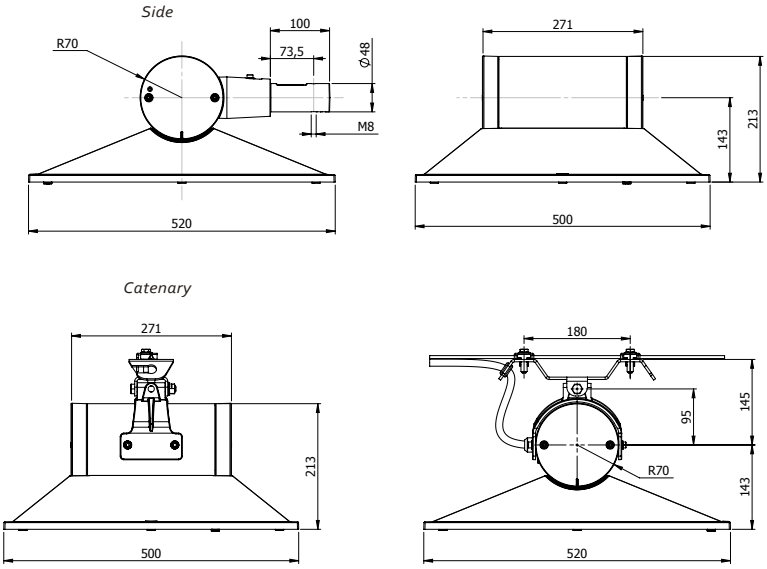
MECHANICAL INTERFACES

- Suspended catenary
- LL: Smooth side with pass through sleeve for Ø 60mm arm
- Tilts from -15° to +15° in 5° steps
- Standard tilt: 0°

Catenary



Side



KEY POINTS

		ZESTO
Applications		Pedestrian areas, cycle paths, residential areas, street lighting
Recommended heights		4 to 8 m
Mounting		Side and catenary
Dimensions	**Length** **width** **height**	520 mm 500 mm 216 mm
Weight		13 kg
Windage area		0,26 m²
Sources		BLS strips
Sources access		The plate is removable without using tools after opening with 2 captive screws
Optics and light distribution options(1)		ECa, ERS, ERL, ERE, LRS, LRL, EPD, EPG, PFA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

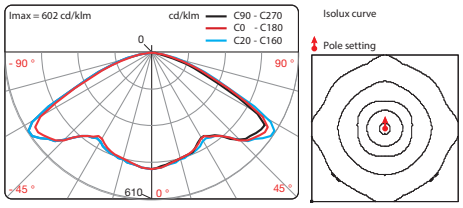
Glossary:

● Standard o Option - Not available

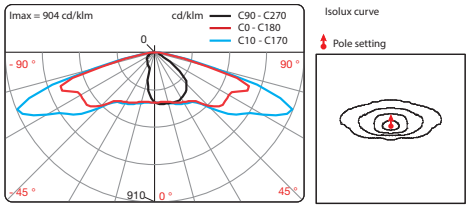
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **R**oad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

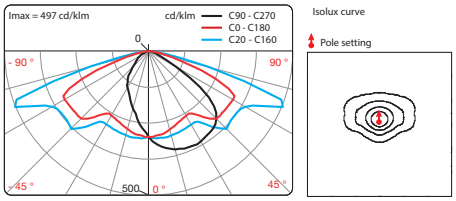
ZESTO - ECL



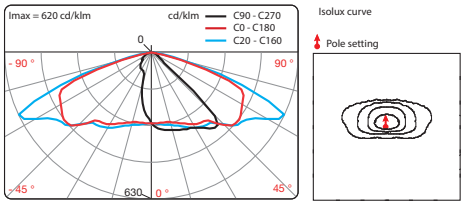
ZESTO - ERS



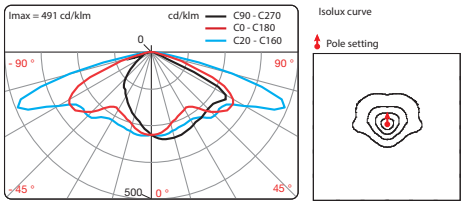
ZESTO - LRL



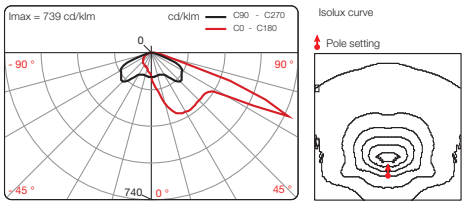
ZESTO - LRS



ZESTO - ERL



ZESTO - PFA



MAINTENANCE

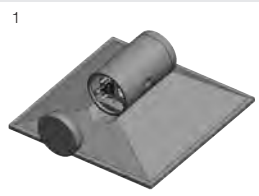
Lighting equipment maintenance

Opening of the equipment cylindrical cover by 2 trapped screws {1}
Electrical disconnection and equipment board removable without tools {2}

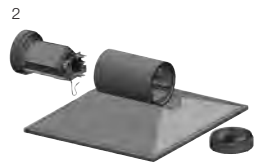
Source maintenance

Access to LED optical module after removal of the bowl with 8 screws (retention line)
Quick electrical disconnection without tools.
Dismounting of the optical module with 6 screws (eyelet).

1



2



KEO

Luminaire design: Michel TORTEL

KEO is a decorative urban LED luminaire, primarily designed for pedestrian public spaces. It's design makes the best use of LED technology; in effect, this luminaire offers innovative visual comfort by way of a unique gentle light diffusing design.

To this end, the designer has created an original underside, in relief, which reduces glare at night without altering the lighting level. Available as an option, this wide, retro-lit, underside seduces with its subtle presence.

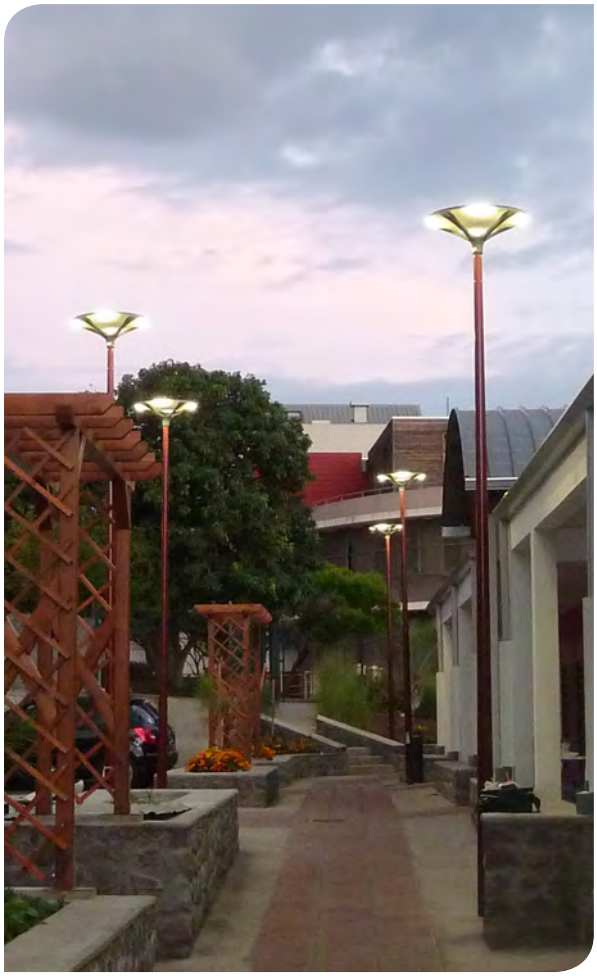
By day, a mirror effect dims the surface as you move away from the object and favours its integration into the environment, as does the simple and refined general design of **KEO**, offering a thin and equally discrete silhouette.


CENTRO COMERCIAL
El Morro
FARMACIA
URGENCIA

KEO

Luminaire design: Michel TORTEL

RoHS | IP 66 | IK 10 | ≤1% 0°5° ULR | KEO : 4-5 m



KEO

APPLICATIONS

- Mounting: Post-top
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
- Recommended heights: 4 to 5 m

DESCRIPTION

- Injection die-cast aluminium body
- Two-material polycarbonate opal and clear bowl, with Led backlight as an option: white or other colours on request
- Polyester powder coating, any colour available
- IP66
- IK10
- Lenses **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 70%, Plastic 20%, Steel 8%, Other 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

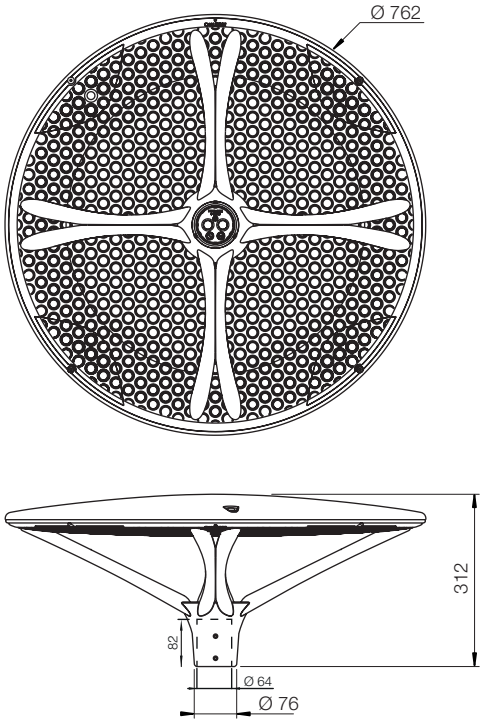
- IP66 waterproofing in accordance with the standard EN 60 529
- Entry sleeve with membrane seal
- Extruded silicone gasket
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- Post top fastening pole Ø 60/62mm
- Post-top fixation for pole Ø 76mm with a spigot Ø 60 mm L 85 mm
  For pole Ø 76mm top, optional spigot B (see page 246)

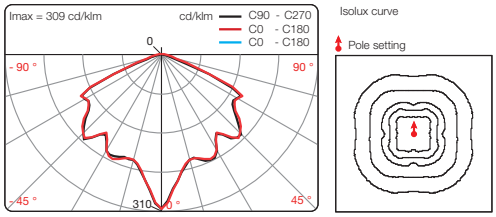
Post-top fixation for pole Ø 76mm

Post top fastening pole Ø 60/62mm

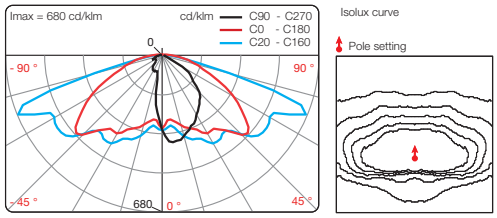


PHOTOMETRIC DISTRIBUTIONS

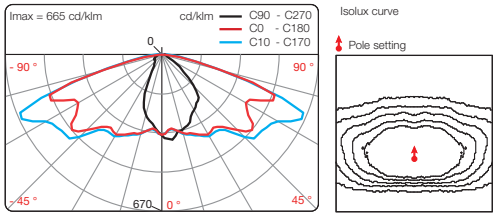
KEO ECL



KEO ERL



KEO ERE



KEY POINTS

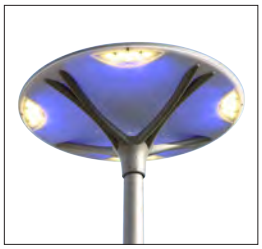
		KEO
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
Recommended heights		4 to 5 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Ø** **height**	762 mm 312 mm
Weight		14 kg
Windage area		0,08 m²
Sources		specific Option: Led backlight of the bowl (white or other colour on request)
Optics and light distribution options		individual lenses: ECL, ERE, ERL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **R**oad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

BACKLIGHT OPTION


Blue Led backlight


Red Led backlight

- Other colours by design

MAINTENANCE

Luminaire maintenance

Interchangeability of the luminaire

NISMO

Luminaire design: Michel TORTEL

NISMO is a luminaire designed to be urban and decorative. It can accept LED light sources or, more conventionally, incandescent lamps.

NISMO suggests new types of lighting and silhouette in the urban space. Its design is universal, elegant and innovative. It inscribes the luminaire into an original verticality: the arms become design objects and lose their character of a weighty technical constraint. Their disposition, by night, frees them from an all-too predictable uniformity.

By day, individually envisaged, NISMO also plays with perspective; it questions the inhabitants with its gently symmetrical silhouette.

These innovations in service and usage, useful, visible and realistic, open up a wide range of possibilities for lighting engineers and urban planners.

ORALED MODULE

NISMO

Luminaire design: Michel TORTEL

RoHS | IP 66 | IK 10 | <1% 0°5° ULR | NISMO : 4-6 m

NISMO

Nismo
without bowl (option)

Nismo
with deep bowl

APPLICATIONS

- Mounting: Post-top
- Pedestrian areas, cycle paths, residential areas, street lighting
- Recommended heights: 4 to 6 m

DESCRIPTION

- Injection die-cast aluminium body
- Option: deep clear polycarbonate bowl, IK10
- Polyester powder coating, any colour available
- IP66
- IK10
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- ORALED module with ORALENS mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

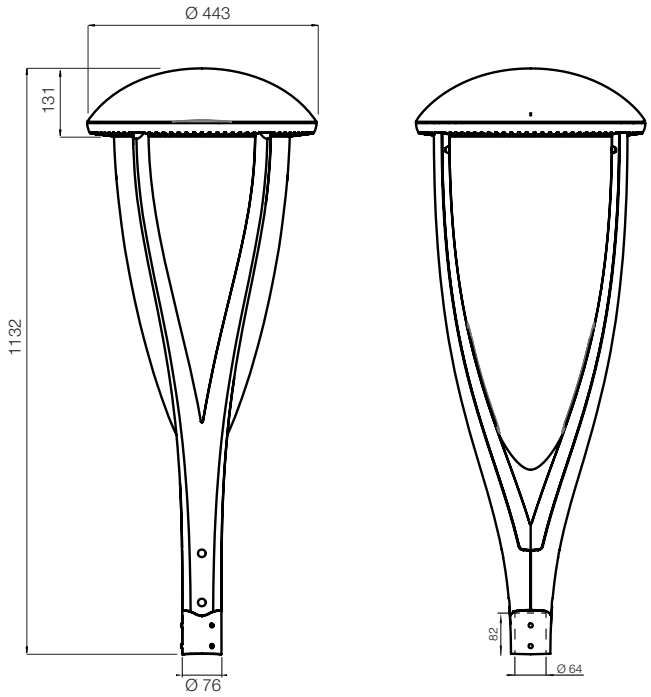
- Materials used:
  - with bowl: Aluminium 67%, Plastic 21%, Steel 11%, Other 1%
  - without bowl: Aluminium 82%, Steel 13%, Plastic 3%, Other 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Entry sleeve with membrane seal
- Extruded silicone gasket
- Breathing system with activated carbon filter

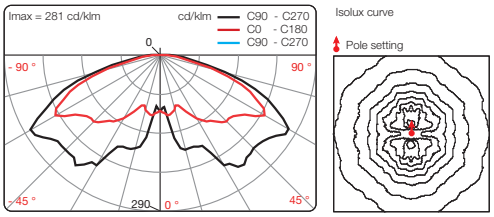
MECHANICAL INTERFACES

- Post top fastening pole Ø 60/62mm
- Post-top fixation for pole Ø 76mm with a spigot Ø 60 mm L 70 mm
  For pole Ø 76mm top, optional spigot C (see page 246)

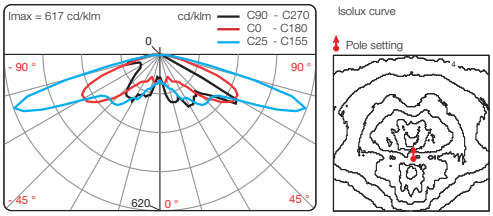


PHOTOMETRIC DISTRIBUTIONS

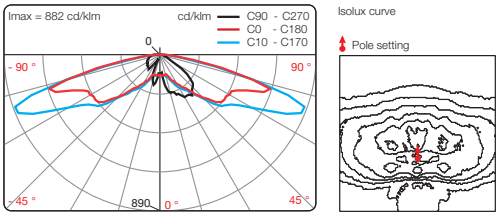
NISMO **ORALED** ECL



NISMO **ORALED** ERL



NISMO **ORALED** ERS



KEY POINTS

		NISMO with bowl	NISMO without bowl
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	
Recommended heights		4 to 6 m	
Mounting		Post-top fastening on pole Ø 60/62mm	
Dimensions	**Ø** **height**	443 mm 1132 mm	
Weight		15 kg	
Windage area		0,23 m² with bowl	0,11 m² without bowl
Source		ORALED 1	
Sources access		Removable cover fastened by 2 screws Removable **ORALED** module	
Optics and light distribution options		Mono lenses: ERS, ERL, LRL, ECL	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	-	o
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (preset)	-	o
	Motion COM (setting on site)	-	o
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option	Compatible with standard version, Dimming 5, motion 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Ro**a**d/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

ORALED 1 maintenance

Removable cover fastened by 2 screws. The ORALED 1 module can be exchanged after quick disconnection of the power supply.

Removable ORALED module

ZENDA

Luminaire design: ECLATEC

ZENDA indicates a magical trilogy.
By day, the balance and lightness of its line suggest a discrete and effective message, like a resolutely contemporary reminder.

By night, the passer-by places all of their confidence in the reassuring path of its alignments, as if **ZENDA** was showing the way. Finally, **ZENDA** is the successful synthesis of technical performance of LED lighting and the new plastics that this technology uses.

ZENDA can house, optionally, 21 or 30 LEDs, two colour temperatures, adjustable power levels and three distributions (ECa wide circular lighting, ERE narrow road lighting, ERL wide road lighting).


HOTEL DE VILLE

ZENDA

ZENDA

APPLICATIONS

- Mounting: top, plate and wall-mounted
- Urban routes, pedestrian walkways, cycle paths, squares, parks, pedestrian areas and residential lighting.
- Recommended heights: 4 to 5 m

DESCRIPTION

- Injection die-cast aluminium body
- Polyester powder coating, any colour available
- IP66
- IK10 - 40 joules
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- Lenses **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 82%, Other 5%, Steel 6%, Plastic 7%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

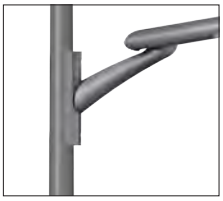
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Entry sleeve
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- Top spigot fixation for pole Ø 60/62mm (see page 246 - D)
- Lateral top spigot fixation for pole Ø 60/62mm
- Pathway bracket with fastening plate
- Wall-mounted bracket with fastening plate
- Luminaire tilted at 0° or 10°

tilt 0°

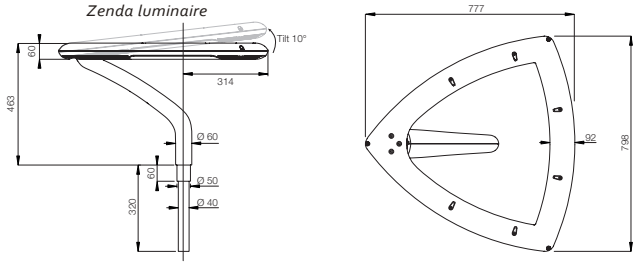
tilt 10°



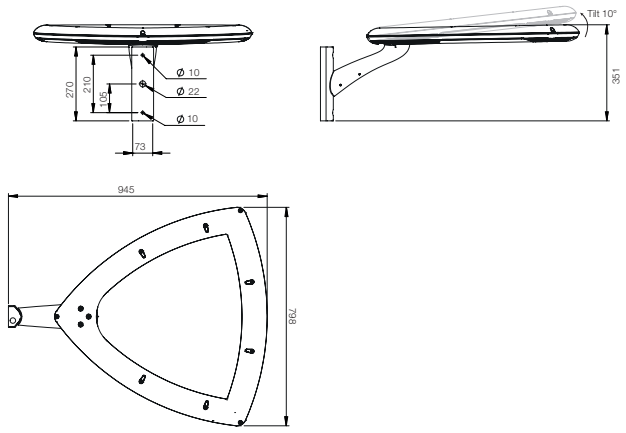
pathway bracket with fastening plate

Fastened by lateral top spigot

Zenda luminaire

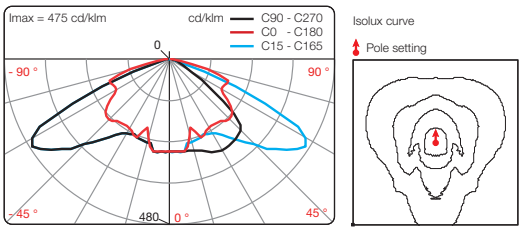


Zenda wall-mounted

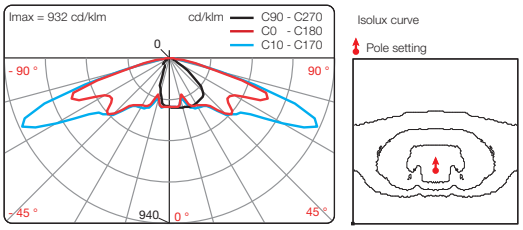


PHOTOMETRIC DISTRIBUTIONS

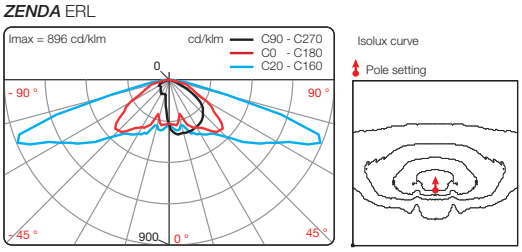
ZENDA ECL



ZENDA ERE



ZENDA ERL



KEY POINTS

		ZENDA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks, pedestrian areas and residential lighting.
Recommended heights		4 to 5 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Depth** **width** **height**	777 mm 798 mm 463 mm
Weight		12,3 kg
Windage area		0,07 m²
Sources		Specific
Sources access		Direct access to the Led bars by removing the bowls, and to the gears by removing the canopy
Optics and light distribution options		Individual lenses: ERE, ERL, ECL
OPTIONS	**Courant ajustable**	o
	POLEDRIVE (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening by screws

Lighting equipment maintenance

Direct access to the gears by removing the canopy

Maintenance of the LED strips

Direct access to the Led bars by removing the bowls

ALOA

Luminaire design: Jean-Michel WILMOTTE

ALOA brings organic goodness to the city centre; its transparent lightness draws its inspiration from tropical plants with their blooms open wide.

When night comes, this sheet of light expands its protective veil and no passer-by escapes its enveloping ambience.

ALOA

Luminaire design: Jean-Michel WILMOTTE

RoHS | IP 66 | IK 08 | ≤1% 0°5° ULR | ALOA : 4-6 m

APPLICATIONS

- Mounting: top or bitop, wall-mounted bracket, pathway bracket
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
- Recommended heights: 4 to 6 m

DESCRIPTION

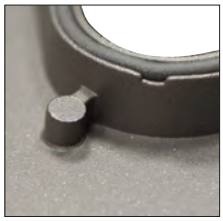
- Die-cast aluminium body with lattice shape
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- Lenses **ORALENS**
- Colour temperature: 4000 K
- Luminaire eligible for Energy Saving Certificates

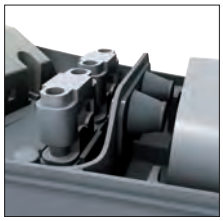
CITIZEN REFERENCE POINTS

- Materials used: Aluminium 84%, Other 7%, Steel 6%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Breathing system with activated carbon filter





MECHANICAL INTERFACES

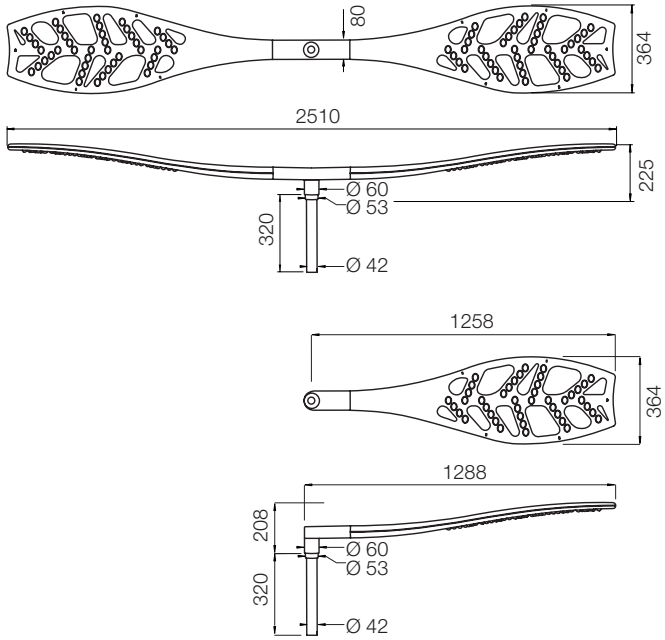
- Top or Bitop
- Wall-mounted bracket (maximum 350mA)
- Pathway bracket
- Steel pole Ø 60/62mm (see page 246 - D)

Top

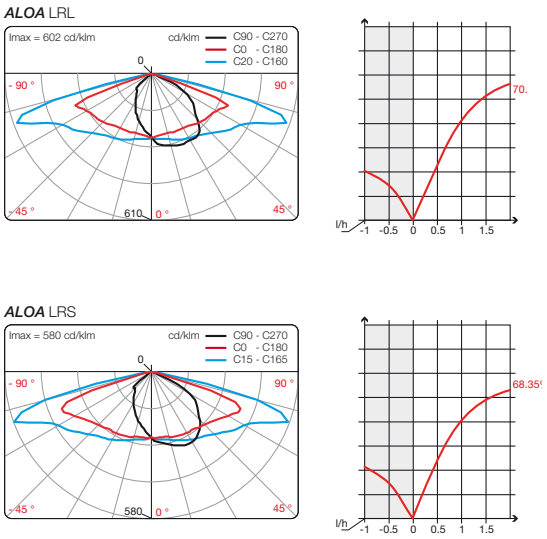
Bitop

Wall-mounted bracket

Pathway bracket



PHOTOMETRIC DISTRIBUTIONS



KEY POINTS

		ALOA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
Recommended heights		4 to 6 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Length** **width** **height**	1258 mm 364 mm 208 mm
Weight		8,1 kg
Windage area		0,05 m²
Sources		Specific
Sources access		Opening with 8 high-helix lead screws Direct access to the LED bars and gear
Optics and light distribution options		Individual lenses: LRS, LRL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-
	Dimming 5 (preset)	o*
	Motion (setting on site)	o*
	Motion P (set in the bottom of the pole)	-
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	-
	FC (preset)	-

* These options require a gear box housed into the pole

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

SEPARATE BOX HOUSED IN THE BOTTOM OF THE POLE

- Gear boxes dimensions (into the pole): width (l) x depth (P) x height (h)
- Intensity (I)
- Inspection door height: 500mm

- Without options with I<350mA, Class I and II, 1 and 2 bulbs: without cabinet
- Without options with I >350mA, 1 bulb in Class II: 63x56x683
- Without options with I>350mA, 1 and 2 bulbs in Class I, or 2 bulbs in Class II: 75x98x725
- With Motion and Dimming 5 options, Class I and II, 1 and 2 bulbs: 75x98x725

MAINTENANCE

Opening and closing

Opening with 8 high-helix lead screws {1}

Lighting equipment maintenance

Direct access to the power supply and control card (350 mA).
Option: require a gear box housed into the pole

Source maintenance

Direct access to the LED bars and gear

SONATA

Luminaire design: ECLATEC

Primarily designed for bracket mounting on facades, **SONATA** has been designed like a light and discrete partition. Its lines, elusive and slender, melt with discretion into various urban contexts. **SONATA** excels in narrow streets, mounted on brackets and thus without impact on pedestrian routes, **SONATA** lights roadways up to 9 metres wide.

SONATA is equipped with an integrated connection box and a reversible mounting base which adapts to various connection cases and therefore avoids ugly electrical connections.

Optionally, the upper face of **SONATA** can accept a retro-lighting module for facades, controlled by an astronomical clock where necessary, so as to comply with nocturnal shutoff regulations without requiring double cabling.

The **SONATA** luminaire is also suitable for pole mounting with an original mounting extending the pole upwards for 1 to 3 superimposed lights.

BLS STRIPS

BACKLIGHTING

Sonata Top

Sonata with detector

Sonata O (backlighting)

SONATA

SONATA wall-mounted

SONATA wall-mounted O

SONATA top

APPLICATIONS

- Mounting: wall-mounted, top
- Urban streets, pedestrian routes, cycle paths, residential lighting, town-centre, architectural emphasis
- Recommended heights: 4 to 6 m

DESCRIPTION

- Body, canopy and plate made of injected die-cast aluminium
- Silkscreen printed, thermally toughened flat glass
- Polyester powder coating, any colour available
- IP66 / IK10 / Class I or II
- Convertible wall-mounted plate for guiding cable from above or from the underside
- Mono lenses **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Option: protective device against overcurrent and short circuits and / or integrated fuse holder in the luminaire
- Luminaire eligible for Energy Saving Certificates

BACKLIGHTING (VERSION O)

- op-mounted RGBW LED in the luminaire cover, adjustable from 0° to 10° with external setting.
- PC bowl
- Narrow or wide beam with ORALENS lenses
- Externally adjustable optical unit for more precise adjustment
- **Dynamic Colours Mode**
  - DMX control (through wiring with 2 extra dedicated cable glands), multitude of colours,
- **Static Colours Mode:**
  - Red, Green, Blue, Neutral White, Cyan, other colours possible on request,
  - Dedicated power supply: backlighting switched off programmatically (cf. decree of 25 January 2013 relating to the night lighting of non-residential buildings)

CITIZEN REFERENCE POINTS

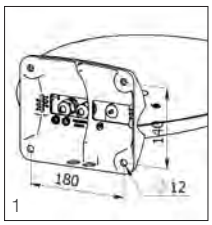
- Materials used: Aluminium 65%, Other 16%, Glass 10%, Steel 8%, Plastic 1%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- 2 anchored cable glands (through wiring possible)
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

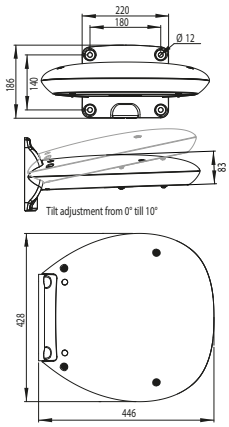
- {1} Wall-mounted bracket: 4 holes Ø12 space between centers 180mm x140mm
  - Tilt 0°, 2.5°, 5°, 7.5° and 10°
  - Luminaire tilted at 2°
- {2} Post top version with 1 to 3 arms: male bracket fastening Ø 60/Ø 62mm (see page 246)
  - Tilt 7°



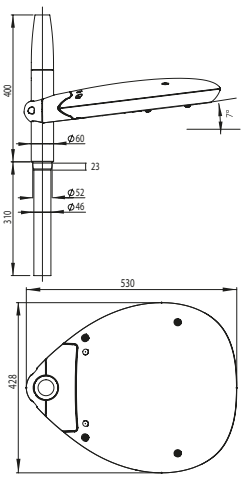
1


2

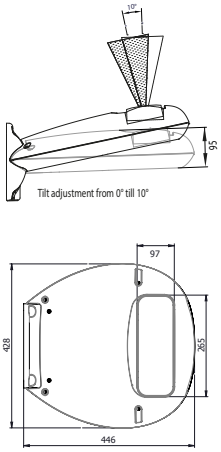
Sonata wall-mounted



Sonata top



Sonata O



KEY POINTS

		SONATA	SONATA O
Applications		Urban streets, pedestrian routes, cycle paths, residential lighting, town-centre Only Sonata O: architectural emphasis	
Recommended heights		4 to 6 m	
Mounting		Top fixation 1 to 3 arms and wall-mounted bracket	wall-mounted bracket
Dimensions	**Length** **width** **height**	446 mm 428 mm 83 mm	446 mm 428 mm 95 mm
Weight		7,5 kg	
Windage area		0,05 m²	
Sources		BLS strips	BLS strips + RGBW LED adjustable façade backlighting
Sources access		Direct access to the gear by removing the canopy fixed with 4 high-helix lead screws	Direct access to power units after removing cover fastened by 4 captive high helix screws
Optics and light distribution options(1)		Mono lenses with flat glass: ERS, ECa, ERL, LRS, LRL	Road lighting: single lens with glass bowl, ERS, ERL, ECa, LRS, LRL Backlighting: PFI, PFM, PFL
OPTIONS	**BACKLIGHTING**	-	o
	POLEDRIVE (set in the bottom of the pole)	o*	o*
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	o	-
	Motion 5 (preset)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC	Compatible with standard version, Dimming 5, Motion 5 or DALI option	Compatible with standard version, Dimming 5 or DALI option

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned *Pole base option for post top luminaires, inside the luminaire for the wall-mounted version

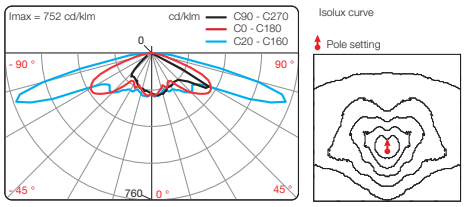
Glossary:

● Standard o Option - Not available

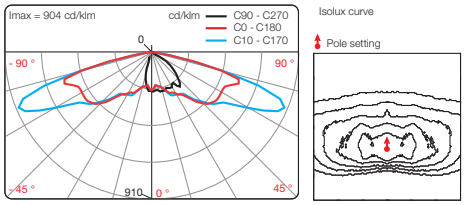
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

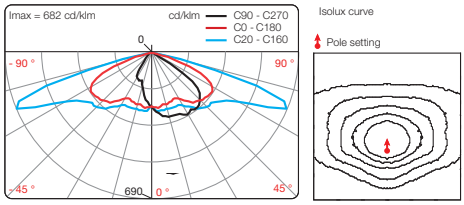
SONATA - ERL



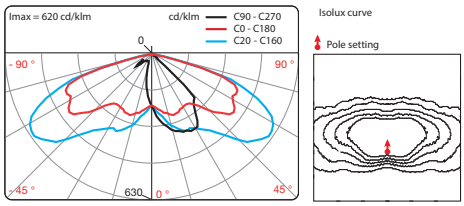
SONATA - ERS



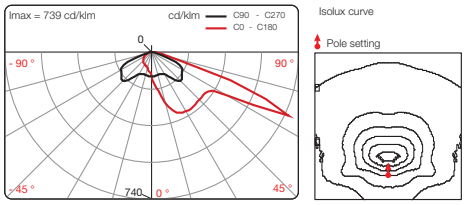
SONATA - LRL



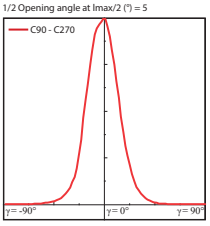
SONATA - LRS



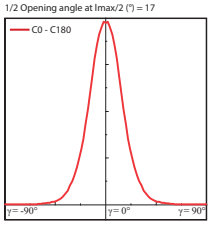
SONATA - PFA



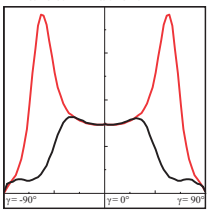
SONATA O - PFI



SONATA O - PFM



SONATA O - PFL



MAINTENANCE

Lighting equipment maintenance
Direct access to the gear by removing the canopy fixed with 4 high-helix lead screws

Source maintenance
Access to BLS strips and lenses after removal of the glass bowl attached with 4 screws.

RGBW retro-lighting module maintenance
Quick electrical disconnection of the LED module without tools. Removable LED module (2 screws).

MAMBA

Luminaire design: ECLATEC

The smart discretion of **MAMBA** makes you almost forget its gracious curves.

First intrigued by its gently invigorating outlines, the inhabitant finally remembers the friendly protection of an urban caduceus that accompanies them along their way.

By day, as if dressed with a subtle zest, **MAMBA** animates urban environments with a lively energy. By night, only the light counts and **MAMBA**, in the heart of the urban forest, reassures with its benign clemency.

MAMBA accepts five **KIDLED** modules and distinguishes itself by low consumption.

KIDLED MODULE

MAMBA

MAMBA

APPLICATIONS

- Mounting: finished product
- Car parks, parks and gardens, urban and residential lighting
- Height: 4,5 m

DESCRIPTION

- Pole/luminaire made of hot dipped galvanised rectangular section steel, bent 6 section 180 x 80 mm
- Polyester powder coating, any RAL colour available
- IP66 modules
- IK07
- Class I or II
- **KIDLED** modules with **ORALENS** mono lense
- Connection to the network through electrical box inside the pole bottom
- Colour temperature: 4000 K and 3000 K
- Pole and luminaire pre-wired in the factory
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

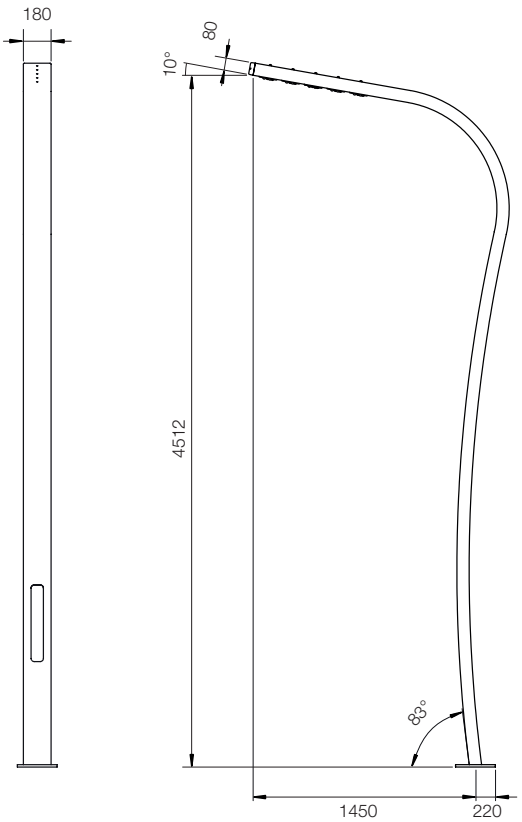
- Materials used: Steel 99%, Other 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Waterproof molded silicone gaskets and connections

MECHANICAL INTERFACES

- Flange place fixing centers 200 x 200mm
- 4 anchor bolts JT 16/14 x 300 (supplied)



KEY POINTS

		MAMBA
Applications		Car parks, parks and gardens, urban and residential lighting
Height		4,5 m
Mounting		Finished product. Assembly to be sealed delivered prewired with connection box
Dimensions	**Section height**	180 x 80 mm 4500 mm
Weight		98 kg
Windage area		1,13 m²
Sources		**5 KIDLED**
Sources access		Removable **KIDLED** modules
Optics and light distribution options		ERS mono lense
OPTIONS	**Courant ajustable**	o
	REP + CA2P (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	-
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

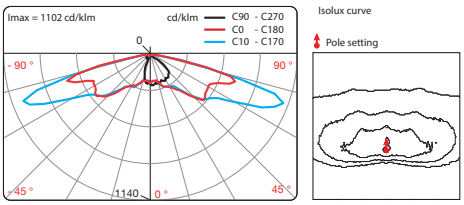
Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

MAMBA - KIDLED - ERS

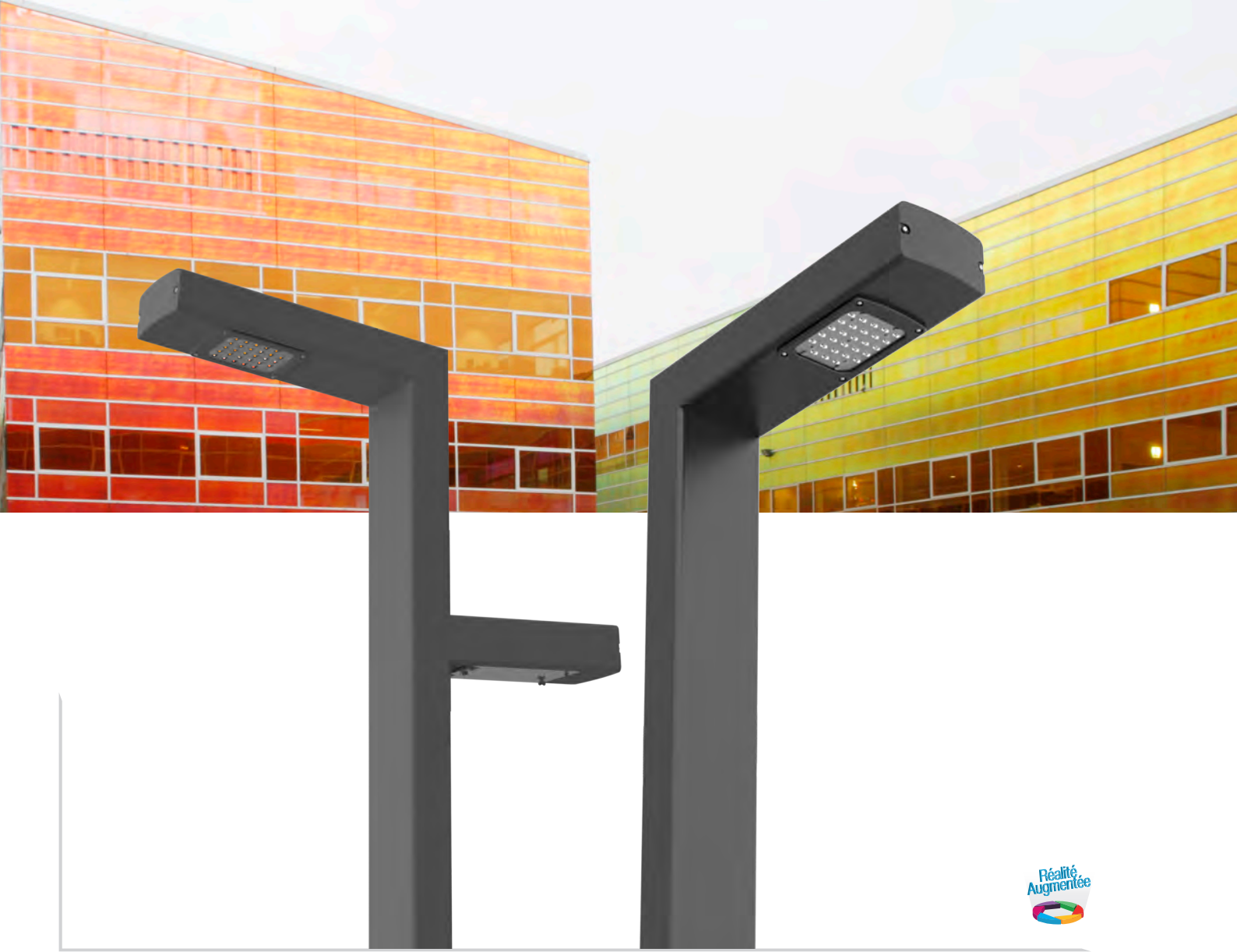


MAINTENANCE

Lighting equipment maintenance

LED and power supply modules can be changed after removing one screw and unplugging the fast connector {1}

Connection box accessible via the door at the bottom of the pole



TAÏGA

Luminaire design: ECLATEC

When simplicity and efficiency go hand in hand…

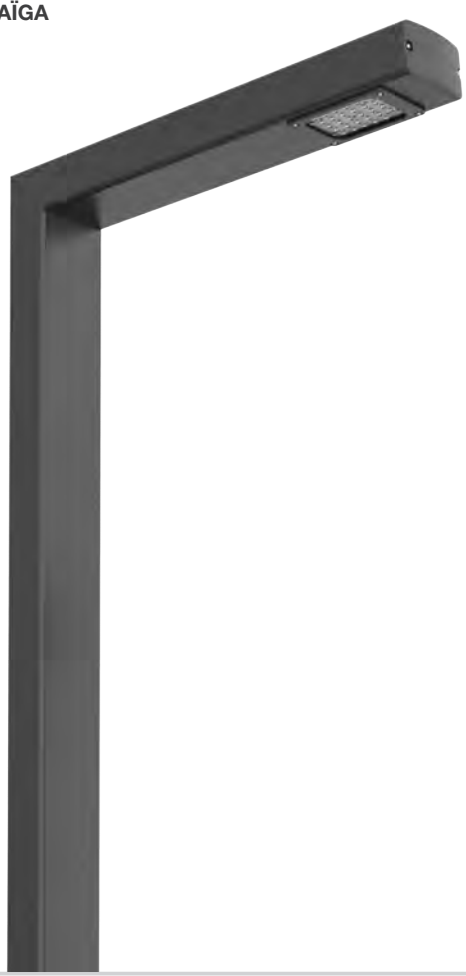
TAÏGA is proof that a straight line is sometimes the best and also the most assertive answer for certain current architectural dialectics.

TAÏGA brings together a group of refined solutions of steel rectangular section poles equipped with **TABLED 2** modules, in single, double or paired lights for heights ranging from 4 to 7 metres.

TABLED 2 MODULE

TAÏGA

TAÏGA



APPLICATIONS

- Mounting: finished product.
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
- Recommended heights: 4 to 7 m

DESCRIPTION

- Pole/luminaire made of hot dipped galvanised rectangular section steel (Height 4 and 5m: 120 x 220mm ; Height 6 and 7m: 150 x 250mm)
- Polyester powder coating, any RAL colour available
- IP66
- IK07
- Class I or II
- **TABLED 2** modules with mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

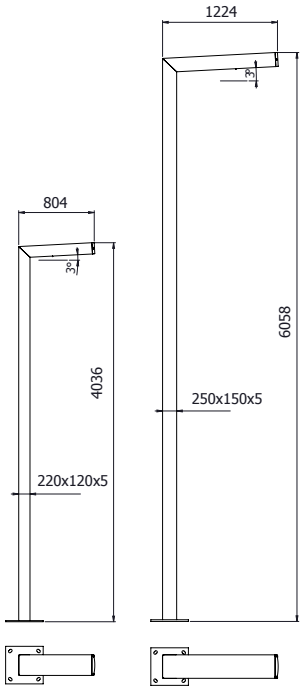
- Materials used: Steel 99%, Other 1%
- Complies with the RoHS directive
- ULR < 1%

WATERPROOFING

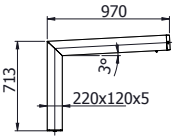
- luminaire part: IP66 waterproofing in accordance with the standard EN 60 529
- Silicone gasket

MECHANICAL INTERFACES

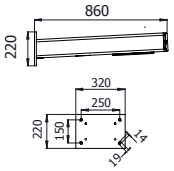
- Flange place fixing centers 300 x 300 mm
- 4 anchor bolts JT-M18 x 400



wall-mounted bracket



wall-mounted bracket with fastening plate



KEY POINTS

		TAÏGA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas
Recommended heights		4 to 7 m
Mounting		Finished product. Assembly to be sealed delivered prewired with connection box
Dimensions		4 and 5 m, section: 120 x 220 mm 6 and 7 m, section: 150 x 250 mm
Weight		Taïga 7 m: 260 kg / Taïga 6 m: 228 kg / Taïga 5 m + rear fixation: 241 kg / Taïga 4 m: 130 kg / Taïga wall-mounted bracket: 29 kg
Windage area		Taïga 7 m: 2.48m² / Taïga 6 m: 2.12m² / Taïga 5 m + rear fixation: 2,12 m² / Taïga 4 m: 1.25 m² Taïga wall-mounted bracket: 0.15m²
Source		TABLED 2
Sources access		Removable **TABLED 2** module
Optics and light distribution options		Mono lense: ERS, ERL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC	Compatible with standard version, Dimming 5 and DALI option

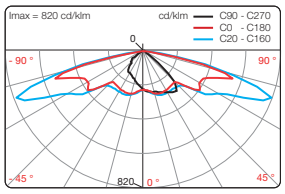
Glossary:

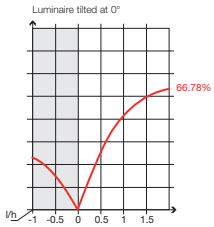
● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **R**oad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

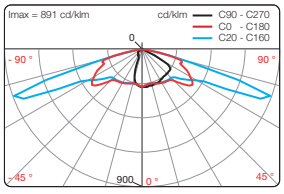
PHOTOMETRIC DISTRIBUTIONS

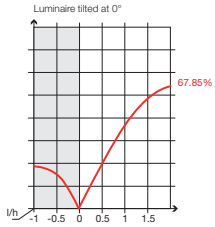
TABLED 2 - ERS





TABLED 2 . ERL

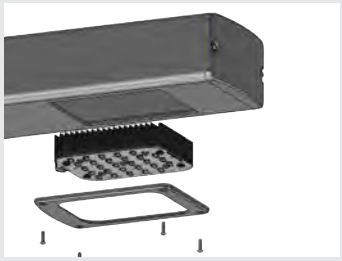




MAINTENANCE

Lighting equipment maintenance

The device can be replaced after removing 2 screws on the top. Connection box accessible via the door at the bottom of the pole



Source maintenance

Access to the TABLED 2 module after removing 4 screws from the arch.

ECLATEC

PIXEL

Luminaire design: STOA Architecture

The raw material of lighting is light. During the day, it is natural; it must be manufactured at night… the only reason for “lighting equipment” in a town: making light!

The **PIXEL** range offers:

• a perfectly discrete sober and elegant design; so that during the day the design disappears into the town;

• a wide choice of high quality luminaires suitable for various urban situations so that, during the night, the light emphasises the town;

• a technology that is economical in manufacturing, consumption and maintenance; to last a long time in the town, during the day as well as the night.

Stoa Architecture

BLS STRIPS

Pixel on Musa bracket

Pixel on Maka bracket

Pixel on Pico bracket

PIXEL

Luminaire design: STOA ARCHITECTURE

PIXEL 1 - Provided with detector

PIXEL 2

APPLICATIONS

- Mounting: Top, bitop, side entry
- Pixel 1: Urban routes, pedestrian walkways, cycle paths and residential lighting.
  Pixel 2: Roads, secondary urban and inter-urban streets
- Recommended heights: Pixel 1: 4 to 6 m / Pixel 2: 6 to 10 m

DESCRIPTION

- Luminaire available in 2 sizes: PIXEL 1 and PIXEL 2
- Body and frame in injected die-cast aluminium
- Silkscreen printed, thermally toughened flat glass
- Luminaire opens without tools
- Luminaire fixation top or lateral
- Polyester powder coating, any colour available
- IP66
- IK09
- Mono lense **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used:
  - Pixel 1: Aluminium 63%, Other 22%, Glass 9%, Steel 5%, Plastic 1%
  - Pixel 2: Aluminium 65%, Other 19%, Glass 11%, Steel 4%, Plastic 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

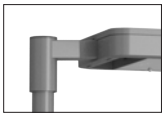
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

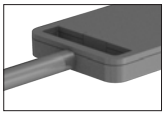
MECHANICAL INTERFACES

- Top fixation, male fastening for pole Ø 60 - 62mm
  Penetration of 100mm onto the pole

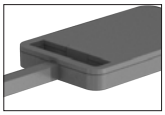
  For pole Ø 76mm top, optional spigot A (see page 246)Luminaire tilted at 7°
- L: Side entry coupled with sleeve for tube
  (Ø 60mm exterior) (see page 246 - E, F)
- L: side entry for rectangular tube (50x70mm)
  (see page 246 - E, F)
- Pathway bracket with fastening plate
- Wall-mounted bracket



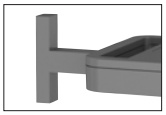
Top fixation



Side entry coupled with sleeve for tube

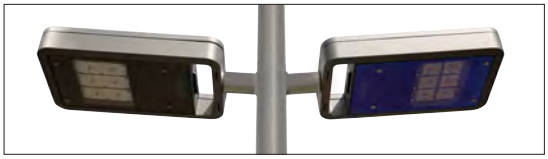


Side entry for rectangular tube



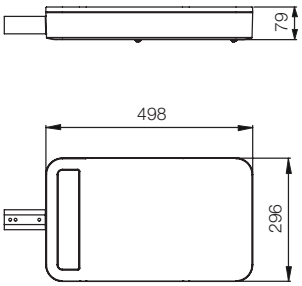
Wall-mounted bracket

OPTION VASQUE EFFET MIROIR

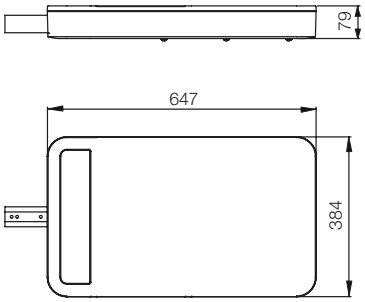


Without options

With blue reflecting mirror option



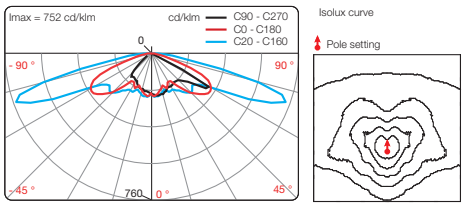
PIXEL 1



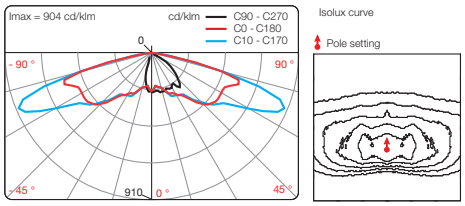
PIXEL 2

PHOTOMETRIC DISTRIBUTIONS

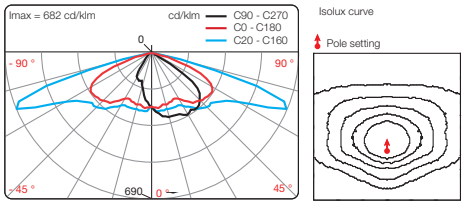
PIXEL - ERL



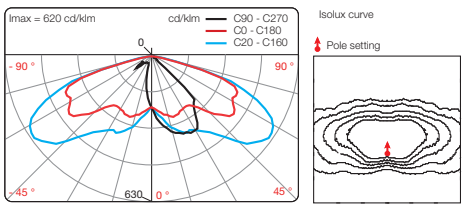
PIXEL - ERS



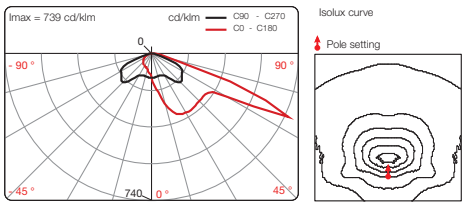
PIXEL - LRL



PIXEL - LRS



PIXEL - PFA



KEY POINTS

		PIXEL 1	PIXEL 2
Applications		Urban routes, pedestrian walkways, cycle paths and residential lighting.	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		Top, bitop, side entry	
Dimensions	**Length** **width** **height**	498 mm 296 mm 79 mm	647 mm 384 mm 79 mm
Weight		9 kg	12,5 kg
Windage area		0,06 m²	0,08 m²
Sources		BLS strips	
Sources access		Opens without tools by pressing the push-strip on the top casting. Direct access to the LED bars by removing the bowl	
Optics and light distribution options(1)		ERS, ERL,ECa, ERE, LRL, LRS, PFA, ETS, EPD, EPG	ERS, ERL, ECa, ERE, LRL, LRS, PFA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	●	●
	Dimming 5 (preset)	●	●
	Motion (setting on site)	●	-
	Motion P (set in the bottom of the pole)	●	●
	Motion DALI (set in the bottom of the pole)	●	-
	Motion 5 (preset)	●	-
	Motion COM (setting on site)	●	-
	DALI (preset)	●	●
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

● Standard ○ Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

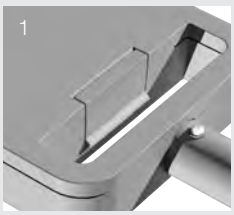
Opens without tools by pressing the paddle on the top cover. {1}
Cutting of the power supply when the luminaire is opened. The cover is held open by a safety prop.

Lighting equipment maintenance

Direct access to the equipment {2}
Quick electrical disconnection without tools. Circuit board removable onsite without tools.

Source maintenance

Direct access to the BLS LED strips after removal of the bowl (4 or 6 attachment screws).



ELYXE

Luminaire design: Luc DAVY

ELYXE cultivates a sense of paradox; on the one hand, elementary, rigorous, tight forms combine to construct a volume, on the other hand, a light, pure silhouette that happily fits in urban contexts.

ELYXE offers the choice of ways to light, whether it concerns creating an environment or searching for functional efficiency.

ORALED MODULE


Hubert Pad

ELYXE

Luminaire design: Luc DAVY

ELYXE

APPLICATIONS

- Mounting: top, wall bracket top mounted or suspended
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
- Recommended heights: 3 to 6 m

DESCRIPTION

- Injection die-cast aluminium body
- Extruded aluminium arms
- Control gear in the upper luminaire body
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ORALED 1** module with **ORALENS** lenses, module painted in sanded grey 2150 or 2900
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 89%, Other 5%, Steel 4%, Plastic 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

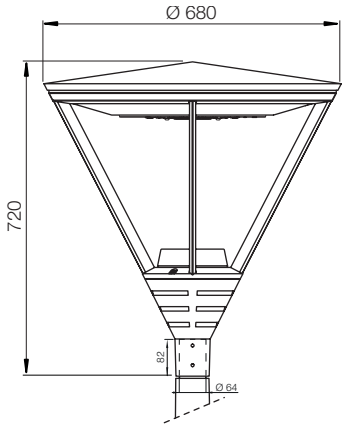
MECHANICAL INTERFACES

- Post top fastening on standard pole Ø 60/62mm
- Post top fastening on specific pole Ø 76mm
  with spigot Ø 60mm, L 85mm
  For pole Ø 76mm top, optional spigot C (see page 246)
- Top mounted or suspended from an Indigo wall bracket with integrated connection box

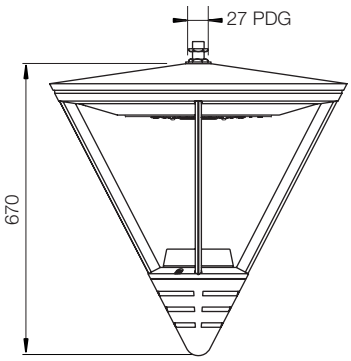
Top fixation for Ø 76 mm pole

Top mounted Indigo wall-bracket

Suspended Indigo wall-bracket



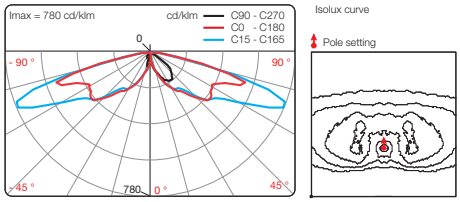
Elyxe post top



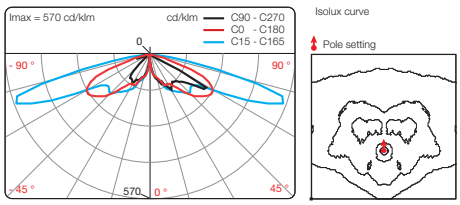
Elyxe suspended

PHOTOMETRIC DISTRIBUTIONS

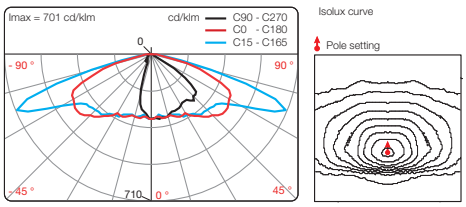
ELYXE **ORALED** ERS



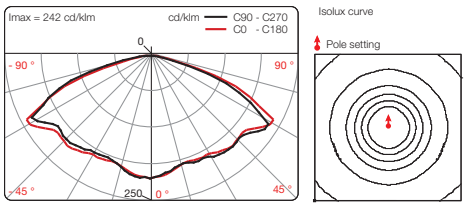
ELYXE **ORALED** ERL



ELYXE **ORALED** - LRM



ELYXE **ORALED** - ECL



KEY POINTS

		ELYXE
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
Recommended heights		3 to 6 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Ø** **height**	680 mm 720 mm (post top Elyxe) and 670 mm (suspended Elyxe)
Weight		15,8 kg
Windage area		0,08 m²
Source		**ORALED 1**
Sources access		Removable **ORALED** module
Optics and light distribution options		ERS, ERL, ECL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	o
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	o
	Motion COM (setting on site)	o
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option

Glossary:

● Standard o Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the luminaire by the action of a hidden screw {1}

The upper body is held in position by a safety prop {2}

ORALED 1 maintenance

Direct access to the **ORALED 1** module

Removable module interchangeable onsite

SAGA

Luminaire design: Cécile PLANCHAIS

SAGA writes a new page in the story of urban lighting.

Its arch, subtly contemporary, carries the history of a luminaire born of the happy combination of form and technology.

By day, the silhouette of **SAGA** discretely recounts the story of a gentle compromise combining modernity and timelessness. By night, **SAGA** accompanies the inhabitants with its presence, both protective and benevolent.

ORALED MODULE

SAGA

Luminaire design: Cécile PLANCHAIS

SAGA

APPLICATIONS

- Mounting: top
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
- Recommended heights: 4 to 6 m

DESCRIPTION

- Injected die-cast aluminium body, canopy, push-strip and module
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- **ORALED 1** module with **ORALENS** lenses, module painted in sanded grey 2150 or 2900
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

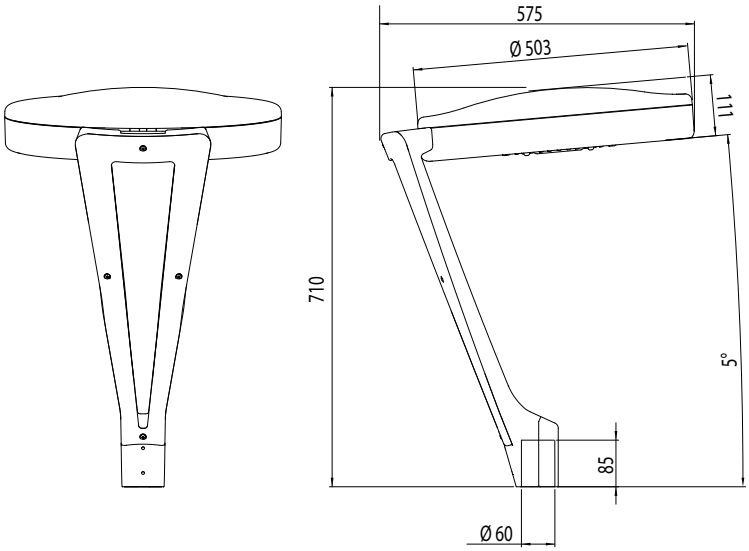
- Materials used: Aluminium 88%, Other 5%, Steel 5%, Plastic 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

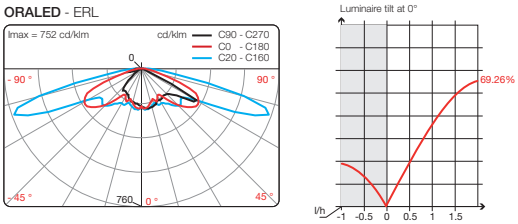
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

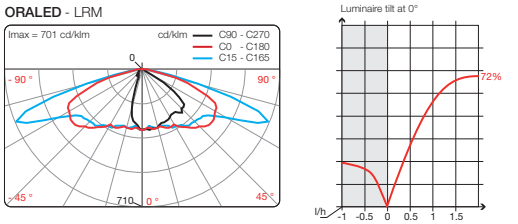
MECHANICAL INTERFACES

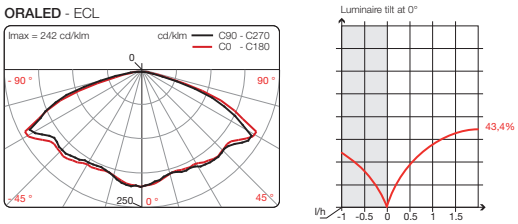
- Cover fixation at the top of the Ø60/62mm pole
- Cover fixation at the top of the Ø 76 mm specific pole with an adaptor Ø 60 mm/ l=85 mm, spigot C (see page 246)
- Luminaire pre-set at 5°

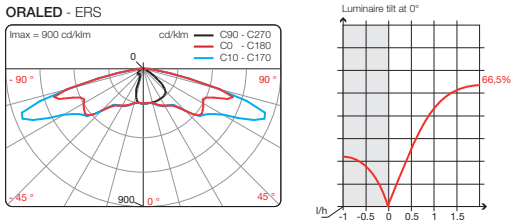


PHOTOMETRIC DISTRIBUTIONS









KEY POINTS

		SAGA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas.
Recommended heights		4 to 6 m
Mounting		Cover fixation at the top of the Ø60/62mm pole and Ø 76 mm with an adaptor. Locked with screws
Dimensions	**Ø** **height**	503 mm 710 mm
Weight		13 kg
Windage area		0,15 m²
Source		**ORALED 1**
Sources access		Removable **ORALED** module
Optics and light distribution options		ERS, ERL, ECL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	o
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	o
	Motion COM (setting on site)	o
	DALI (preset)	o
	FC (preset)	Compatible with Standard version, Dimming 5, motion 5 or DALI

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **Ro**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**arrow**/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

The upper part of the luminaire cover can be opened without tools using the flap {1}

The luminaire is held in the open position by a safety prop.

ORALED 1 maintenance

Direct access to the **ORALED 1** module

Power supply by quick connectors

Removable module interchangeable onsite

BUZZ

Luminaire design: Eclatec

BUZZ is the new language of lighting.

Exclusively accepting LED sources and thus making the most of modern technologies, its shape communicates both a discrete simplicity and a confirmed modernity. When night falls, its efficiency is fully expressed, strong with the successful combination of current concerns (energy economy, nuisance reduction, including rear lighting).

BUZZ, a luminaire that gets talked about…

BUZZ is equipped with ZEDLED C modules (multiple colour temperatures, multiple distributions).

ZEDLED C MODULE

BUZZ

BUZZ

APPLICATIONS

- Mounting: top
- Carparks, parks and gardens, pedestrian paths, cycle paths.
- Recommended heights: 3,5 to 5 m

DESCRIPTION

- Buzz ZEDLED C1 available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium bottom and canopy
- Clear (standard) or grey (option) frame, in polycarbonate
- Clear globe, polycarbonate grey structural support stem
- Polyester powder coating 2150 sanded grey, RAL and other colours on the base and canopy are optional
- IP66
- IK10
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ZEDLED C** module with **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Plastic 51%, Aluminium 37%, Steel 10%, Other 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

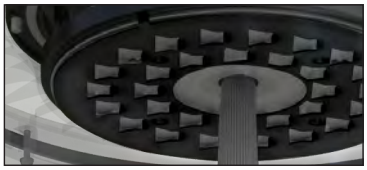
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket on the base, canopy and lower part
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- Post-top fastening on pole Ø 60/62 mm, with 4 screws
- For pole Ø 76mm top, optional spigot C (see page 246)

REARWARD LIGHT SPILL COVER OPTION

- Rearward light spill cover



KEY POINTS

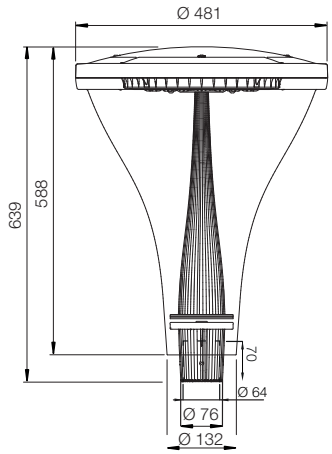
		BUZZ 1E ★	BUZZ 2E A/B ★★	BUZZ 3E ★★★	BUZZ
Applications		Carparks, parks and gardens, pedestrian paths, cycle paths.			
Recommended heights		3,5 to 5 m			
Mounting		Post-top fastening on pole Ø 60/62mm and Ø 76mm with optional spigot.			
Dimensions	Ø height	481 mm 639 mm			
Weight		8 kg			
Windage area		0,15 m²			
Colour (•RAL to be chosen)		RAL 7035	•	•	•
Specific LED sources	LED Module	ZEDLED C0 ZEDLED C1	ZEDLED C0 ZEDLED C1	ZEDLED C0 ZEDLED C1	ZEDLED C2
	Very high Efficiency LED	• ZEDLED C0	•	•	•
	High Efficiency LED	• ZEDLED C1	-	-	-
Sources access		Removable **ZEDLED C** module			
Colour temperature	3000 K	-	•	•	•
	4000 K	•	•	•	•
Optics and light distribution options		ERS, ERL	ERS, ERL, LRM, ECL		
Power supply current (mA)		700 mA	A: ANF* B: 700 mA	100 à 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○	○
	Dimming 5 (preset)	-	-	○	○
	Motion (setting on site)	-	-	-	-
	Motion 5 (preset)	-	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○	○
	Motion DALI (set in the bottom of the pole)	-	-	-	-
	DALI (preset)	-	-	○	○
	FC (preset)	-	-	○	○
Driver protection	10 kv	-	-	•	•
	8 kv	-	•	-	-
	4 kv	•	-		
Class	Class I	-	•	•	•
	Class II	•	•	•	•
Pre-wired		•	•	•	•
Mechanical interfaces	Top covering Ø60/62 mm	•	•	•	•
	Top penetrating Ø76 mm	-	○	○	○

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time

Glossary:

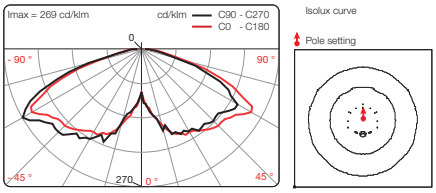
• Standard ○ Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

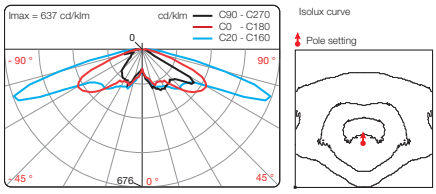


PHOTOMETRIC DISTRIBUTIONS

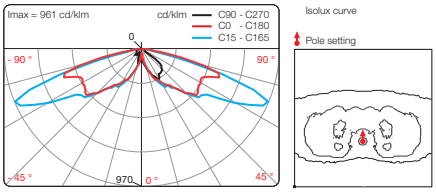
ZEDLED C - ECL



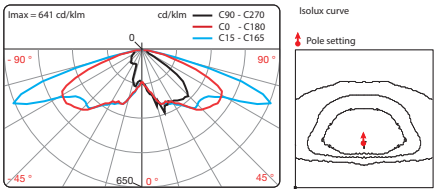
ZEDLED C - ERL



ZEDLED C - ERS



ZEDLED C - LRM

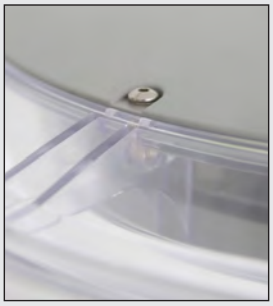


MAINTENANCE

Maintenance of the equipment and sources

Removal of the cover with 4 trapped screws.

The ZEDLED C module can be exchanged after quick disconnection of the power supply.



SCOOP

Luminaire design: Michel TORTEL

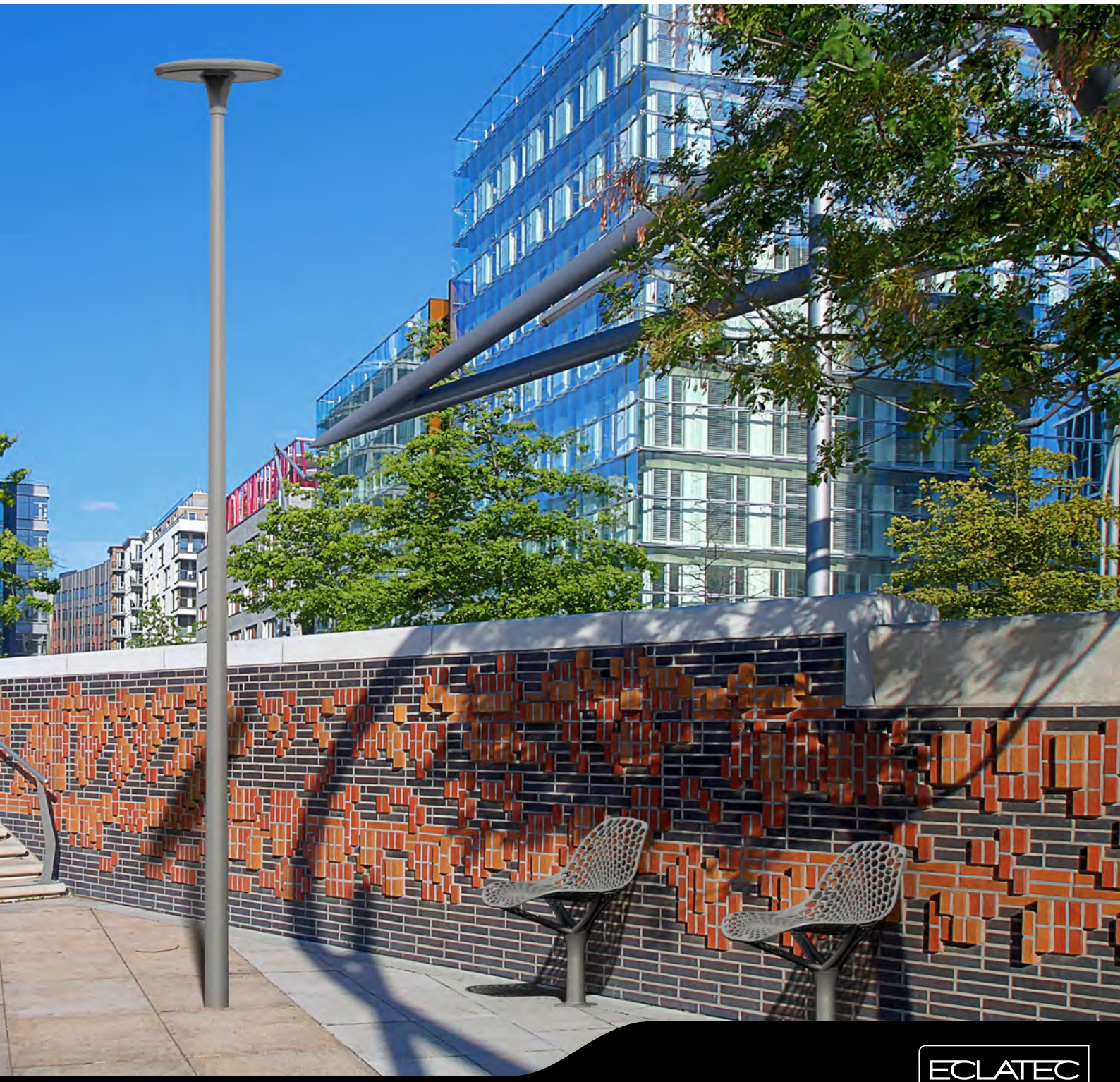
The **SCOOP** luminaire is synonymous with novelty; it combines the fluidity and elegance of refined lines with the efficiency of LED solutions in an association that is resolutely innovative and contemporary.

The sobriety and discretion of **SCOOP** speaks an innovative and benevolent message, in current language.

SCOOP is available in three levels of functionality. **SCOOP** has numerous light distributions (symmetric, circular or asymmetric).

In the **KEA** variant, this luminaire uses the graphical charter of the **KEA** line, and thus participates in the coherence of this complete family of lighting and urban furniture.


GEHA
BANDEN
UITLATEN
ACCU'S
UITLIJNEN
AIRCO
APK
REPARATIE



SCOOP

Luminaire design: Michel TORTEL

SCOOP

SCOOP KEA

APPLICATIONS

- Mounting: top
- Carparks, parks and gardens, pedestrian paths, cycle paths.
- Recommended heights : 3,5 to 5 m

DESCRIPTION

- 2 models available
  - SCOOP: Flat polycarbonate transparent bowl
  - SCOOP KEA: Structured polycarbonate transparent bowl
- Models available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium bottom and canopy
- Body, cover and base in die-cast aluminium
- Single Aluminium Grey polyester powder coating finish
- IP66
- IK10
- Class I or II
- **ORALENS** mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 77%, Plastic 17%, Steel 5%, Other 1%,
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

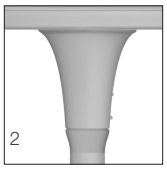
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

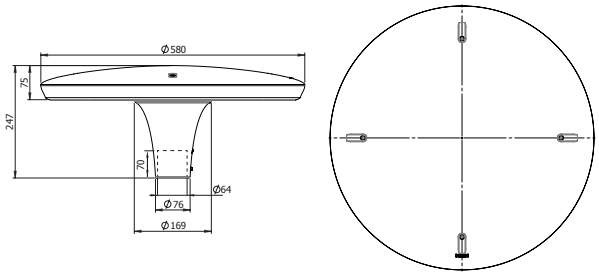
- Top cover fixing at the top of the Ø60/62mm pole, locked using 2 screws {1}
- Top cover pass through fixing with specific tip at the top of the Ø60/62mm pole, locked using 2 screws {2}
- Top cover pass through fixing with specific tip (see C tip p246) at the top of the Ø76mm pole, locked using 2 screws {3}

Top cover on Ø 60/62 mm pole



Top pass through cover with specific tip on Ø 60/62 mm pole

Top pass through cover on Ø76 pole



KEY POINTS

		SCOOP / SCOOP KEA		
		1E ★	2E A / B ★★	3E ★★★
Applications		Carparks, parks and gardens, pedestrian paths, cycle paths.		
Recommended heights		3,5 to 5 m		
Mounting		Wrapping or penetrating pole Ø 60/62 mm and Ø 76 mm with adapter. Screw locking		
Dimensions	Ø height	580 mm 247 mm		
Weight		8 kg		
Windage area		0,06 m²		
Colour (•RAL to be chosen)		grey aluminium finish R3D3	•	•
Specific LED sources	LED Module	12 or 24 LED	24 LED	24 LED
	Very high Efficiency LED	-	•	•
	High Efficiency LED	•	-	-
Sources access		Direct access to the plate after removing the cover using 4 screws		
Colour temperature	3000 K	•	•	•
	4000 K	•	•	•
Optics and light distribution options		ERS, ERL	ERL, ERS, ECL	
Power supply current (mA)		700 mA	A: ANF* / B: 700 mA	100 to 700 mA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○
	Dimming 5 (preset)	-	-	○
	Motion (setting on site)	-	-	○
	Motion 5 (preset)	-	-	○
	Motion P (set in the bottom of the pole)	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	-
	DALI (preset)	-	-	○
	FC (preset)	-	-	○
Protection Driver	10 kv	-	-	•
	8 kv	-	•	-
	4 kv	•	-	-
Class	Class I	-	•	•
	Class II	•	•	•
Pre-wired		-	○	○
Mechanical interfaces	Top cover Ø60/62 mm	•	•	•
	Top pass through Ø60/62 mm	-	○	○
	Top pass through Ø76 mm	-	○	○

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time

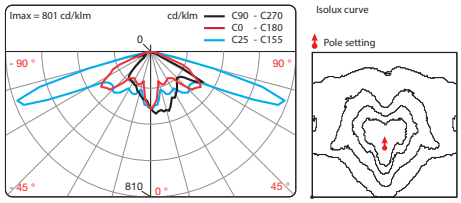
Glossary:

● Standard ○ Option – Not available

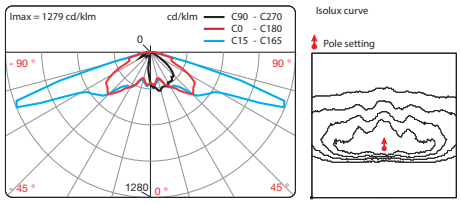
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

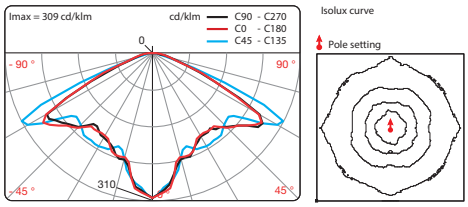
SCOOP/SCOOP KEA - ERL



SCOOP/SCOOP KEA - ERS



SCOOP/SCOOP KEA - ECL



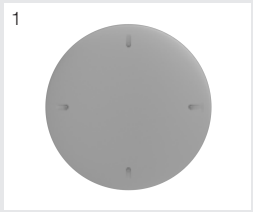
REDUCED FLUX VERSION WITH TWO PCBs

• Only available for level 1E

MAINTENANCE

Lighting equipment maintenance
Direct access to the circuit board after removing the cover with 4 trapped screws (the cover is held by a safety line) {1}

Source maintenance
In keeping with the state of the art (initial assembly in dedicated rooms for reasons of cleanliness, static control and waterproofing…) it is recommended that, in general, you operate by standard exchange of luminaires.



LINK

by ECLATEC

Luminaire design : ECLATEC

The **LINK** pedestrian luminaire creates an elegant link between function and form.

By night, it does its job very effectively, giving pedestrians an indispensable sense of safety. In that function, it also allows a very wide range of possibilities by adding a personalised touch to the urban atmosphere.
By day, its clean design tones easily with diverse cityscapes.

Thus, **LINK** lives up to its name by creating a resolutely contemporary link between night and day.

This luminaire is available in many versions: with clear or structured deep bowls and clear or opaline shallow bowls.

BLS STRIPS

ORALED 1 MODULE

LINK

LINK SHORT BOWLS

Clear

Opaline

LINK DEEP BOWLS

Clear

Stuctured

APPLICATIONS

- Mounting: top
- Carparks, parks and gardens, pedestrian paths, cycle paths.
- Recommended heights : 3,5 to 5 m

DESCRIPTION

- Models available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium bottom and canopy
- Base, cover and arm in injected die-cast aluminium
- Four polycarbonate bowls: deep clear, deep structured, shallow clear and shallow opaline
- Single Aluminium Grey polyester powder coating finish
- IP66
- IK10
- Class I ou II
- SOMLED 1 module or BLS STRIPS
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

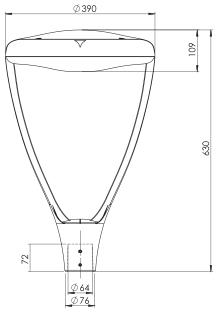
- Materials used: Aluminium 64%, Plastic 27%, Steel 6%, Other 3%,
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

WATERPROOFING

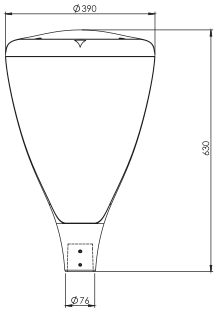
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- Top fastening for Ø60/62 mm pole, fixed with six screws
- For standard Ø76 mm pole, C end available as an option (cf. p246)



Link short bowl



Link deep bowl

KEY POINTS

		LINK		
		1E ★	2E A / B ★★	3E ★★★
Applications		Carparks, parks and gardens, pedestrian paths, cycle paths.		
Recommended heights		3,5 to 5 m		
Mounting		Wrapping pole Ø 60/62 mm and Ø 76 mm with adapter. Screw locking		
Dimensions	Ø height	390 mm 630 mm		
Weight		8.5 kg		
Windage area		0,13 m²		
Colour (•RAL to be chosen)		RAL 7035	•	•
Specific LED sources	LED Module	ORALED 1.0 ORALED 1.1 2BLS12	ORALED 1 Barrettes BLS	ORALED 1 Barrettes BLS
	Very high Efficiency LED	ORALED 1.0 2BLS12	•	•
	High Efficiency LED	ORALED 1.1	-	-
Sources access		-	•	•
Colour temperature	3000 K	•	•	•
	4000 K	ERS, ERL	ORALED 1 : ERS, ERL, ECL, LRM Barrettes BLS : ERS, ERL, ECa, ERE, ETS, LRS, LRL	
Power supply current (mA)		700 mA	A : ANF* B : 700 mA	100 à 700 mA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○
	Dimming 5 (preset)	-	-	○
	Motion (setting on site)	-	-	-
	Motion 5 (preset)	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	○
	DALI (preset)	-	-	○
	FC (preset)	-	-	○
Driver protection	10 kv	-	-	•
	8 kv	-	•	-
	4 kv	•	-	
Class	Class I	-	•	•
	Class II	•	•	•
Pre-wired		-	○	○
Mechanical interfaces	Top covering Ø60/62 mm	•	•	•
	Top penetrating Ø76 mm	-	○	○

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time

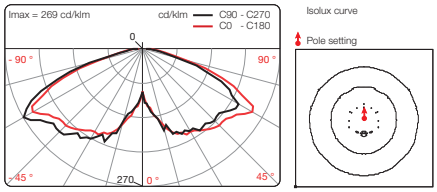
Glossary:

● Standard ○ Option – Not available

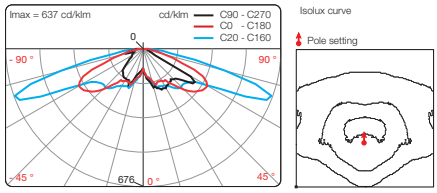
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Ro**a**d/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

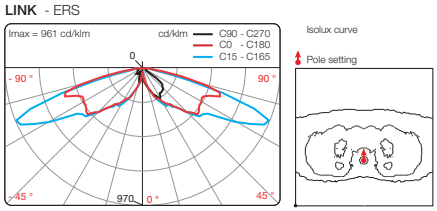
LINK - ECL



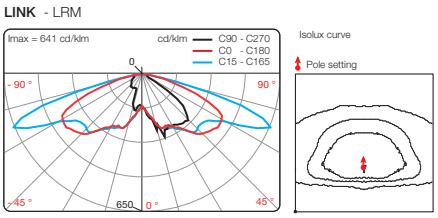
LINK - ERL



LINK - ERS



LINK - LRM



MAINTENANCE

Maintenance of the equipment

Direct access to the plate after removing the cover with 4 captive screws

Sources maintenance

Direct access to the optical source after removal of the upper part by 2 screws.

TEXTO

Luminaire design: ECLATEC

TEXTO lends its urban style to classic evocations, but also to up-to-date registers; the subtle balance of these inspirations gives **TEXTO** a communicative charisma.

Also, you can envisage **TEXTO** in very diverse urban contexts, whether it is traditional environments, housing developments or sites with a contemporary character.

TEXTO accepts **ZEDLED C** modules (multiple distributions).
In all cases, its ULOR performance meets the strictest of requirements.

ZEDLED C MODULE

TEXTO, because of its low power, provides very significant energy savings.

TEXTO, an urban message in modern times…

TEXTO

TEXTO

APPLICATIONS

- Mounting: top
- Carparks, parks and gardens, pedestrian paths, cycle paths.
- Recommended heights : 3,5 to 5 m

DESCRIPTION

- Injected die cast aluminium bottom and canopy
- Clear (standard) or grey (option) frame, in polycarbonate
- Clear globe, polycarbonate grey structural support stem
- Polyester powder coating, any colour available
- IP66
- IK10 - 60 Joules
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ZEDLED C** module with **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 59%, Plastic 32%, Steel 8%, Other 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

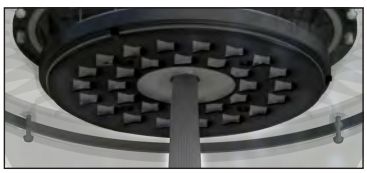
- IP66 waterproofing in accordance with the standard EN 60 529
- Moulded silicone gasket on the base
- Extruded silicone gasket on the canopy and lower part
- Cable gland with anchoring device
- Breathing system with activated carbon filter

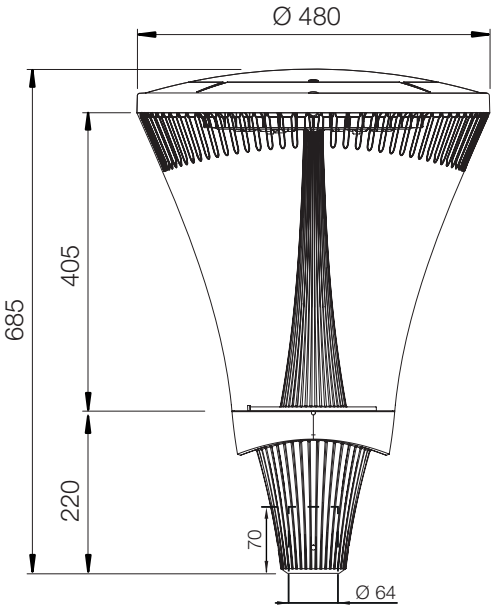
MECHANICAL INTERFACES

- Post-top fastening on pole Ø 60/62mm, with 4 screws
- For pole Ø 76mm top, optional spigot C (see page 246)

REARWARD LIGHT SPILL COVER

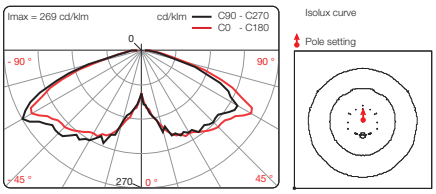
- Rearward light spill cover



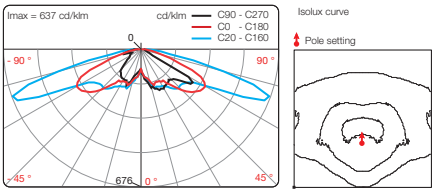


PHOTOMETRIC DISTRIBUTIONS

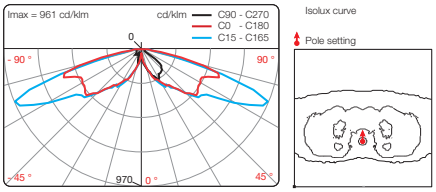
ZEDLED C - ECL



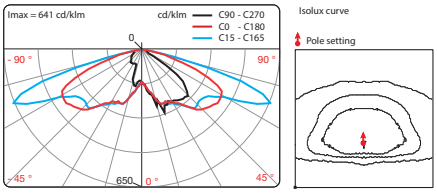
ZEDLED C - ERL



ZEDLED C - ERS



ZEDLED C - LRM



KEY POINTS

		TEXTO
Applications		Carparks, parks and gardens, pedestrian paths, cycle paths.
Recommended heights		3,5 to 5 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Ø** **height**	480 mm 685 mm
Weight		9 kg
Windage area		0,15 m²
Source		**ZEDLED C**
Sources access		Removable **ZEDLED C** module
Optics and light distribution options		ERS, ERL, LRM, ECL
OPTIONS	**Rearward light spill cover**	o
	POLEDRIVE (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

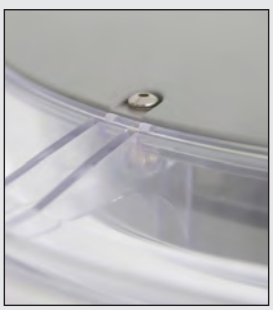
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Maintenance of the equipment and sources

Removal of the upper cover with 4 screws.

Interchangeability of the **ZEDLED C** module after quick disconnection of the power supply.



IDYLLE

Luminaire design: ECLATEC

IDYLLE draws attention with a correctly proportioned modern silhouette.

Mainly intended for pedestrian lighting, **IDYLLE** flourishes in multiple urban contexts.

Like its cousin, Texto, **IDYLLE** supplies avant-garde, high energy performance solutions for the necessary replacement of mercury vapour luminaires.

IDYLLE accepts a wide range of traditional optical systems and also the second generation **ZEDLED B** module.

In its LED configuration, **IDYLLE**, because of its low power, provides very significant energy savings.

IDYLLE, an adventure destined to endure…

ZEDLED B MODULE


Pharmacie à
usage intérieur
Accueil du public
Rétrocessions

IDYLLE

IDYLLE

APPLICATIONS

- Mounting: top
- Car parks, parks and gardens, residential lighting
- Recommended heights : 3,5 to 5 m

DESCRIPTION

- Base in injected aluminium
- Spun aluminium cap
- Clear polycarbonate globe
- Polyester powder coating, any colour available
- IP66
- IK10: 60 Joules
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ZEDLED B** module with **ORALENS**
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

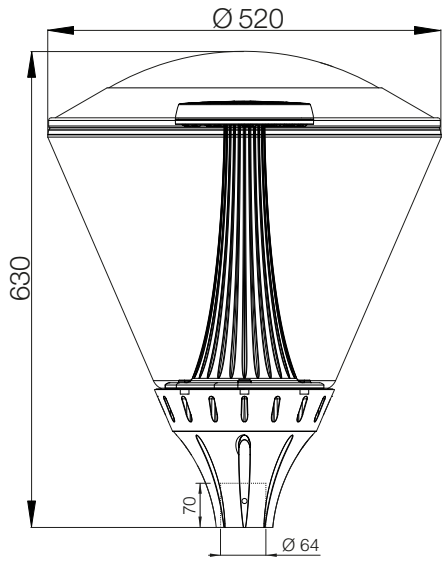
- Materials used: Aluminium 65%, Plastic 26%, Steel 5%, Other 4%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Moulded silicone gasket on the base
- Cable gland with anchoring device

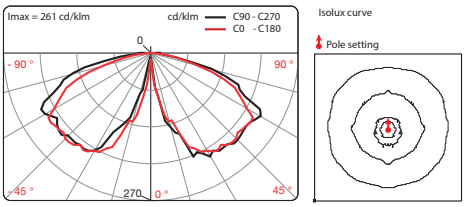
MECHANICAL INTERFACES

- Post-top fastening on pole Ø 60/62 mm, with 4 screws
- For pole Ø 76mm top, optional spigot C (see page 246)

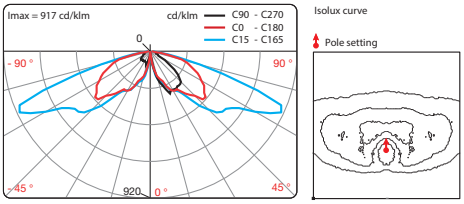


PHOTOMETRIC DISTRIBUTIONS

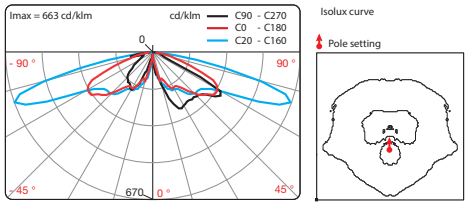
ZEDLED B - ECL



ZEDLED B - ERS



ZEDLED B - ERL



KEY POINTS

		IDYLLE
Applications		Car parks, parks and gardens, residential lighting
Recommended heights		3,5 to 5 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Ø** **height**	520 mm 630 mm
Weight		7,2 kg
Windage area		0,15 m²
Source		**ZEDLED B**
Sources access		Removable **ZEDLED B** module
Optics and light distribution options		Mono lenses: ERS, ERL, ECL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

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MAINTENANCE

Opening and closing

Opening by removal of the globe with 4 trapped screws located in the base. {1}

1

Lighting equipment maintenance

It is recommended that you operate by standard luminaire exchange.

ORIENTIS

Luminaire design: GHM

The **ORIENTIS** luminaire takes an acclaimed form, now common to multiple urban centres in France and more widely in Europe.

Its proportions express a solid balance and its silhouette integrates into without ever clashing with a wide range of urban and rural landscapes.

The LED version of the **ORIENTIS** luminaire has a **ZEDLED B** module which opens up the choice of circular and asymmetric distributions.

The **ORIENTIS LED** assembly is as efficient as it is elegant.

ZEDLED B MODULE

ORIENTIS

ORIENTIS

APPLICATIONS

- Mounting: top
- Car parks, parks and gardens, residential lighting
- Recommended heights : 3,5 to 5 m

DESCRIPTION

- Injected aluminium bottom and cap
- Circular conical dome Ø 700 mm in spun aluminium, underside painted in white RAL 9010 - Stainless steel rods
- Polyester powder coating, any colour available
- IK08/ IP65
- Luminaire pre-wired in the factory (6 m)
- Options: flat dome and rods painted
- High cap version = Orientis H
- Class I or II
- Integrated control gear
- **ZEDLED B** module with **ORALENS** PMMA lenses
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

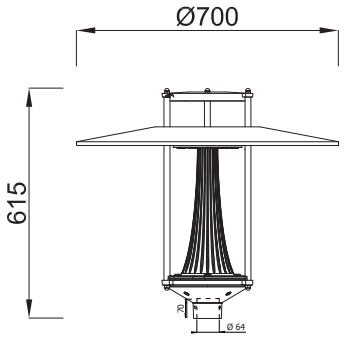
- Materials used: Aluminium 69%, Steel 12%, Plastic 11%, Other 8%.
- Complies with the RoHS directive.
- ULR < 1%
- High recyclability rate

WATERPROOFING

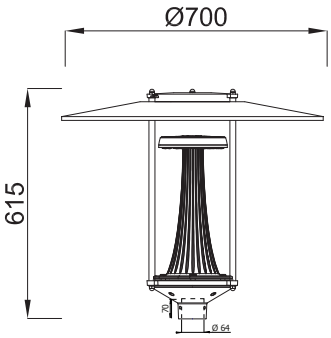
- IP66 waterproofing in accordance with the standard EN 60 529
- Moulded silicone gasket on the base
- Cable gland with anchoring device

MECHANICAL INTERFACES

- Post top fastening on standard pole Ø 60/62mm
- Post top fastening on specific pole Ø 76mm with spigot Ø 60mm, L 85mm
  For pole Ø 76mm top, optional spigot C (see page 246)



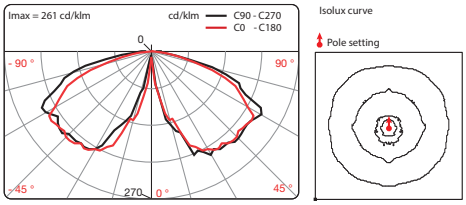
ORIENTIS



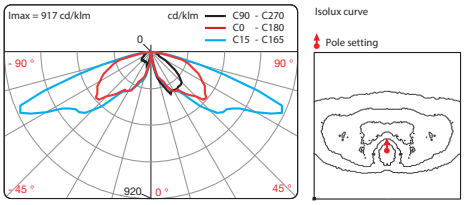
ORIENTIS H

PHOTOMETRIC DISTRIBUTIONS

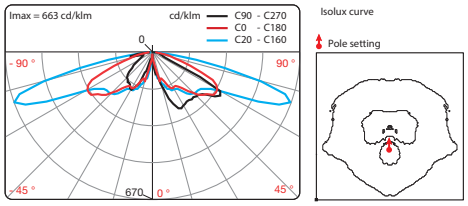
ZEDLED B - ECL



ZEDLED B - ERS



ZEDLED B - ERL



KEY POINTS

		ORIENTIS
Applications		Car parks, parks and gardens, residential lighting
Recommended heights		3,5 to 5 m
Mounting		Post-top fastening on pole Ø 60/62mm
Dimensions	**Ø** **height**	700 mm 615 mm
Weight		7,1 kg
Windage area		0,15 m²
Source		**ZEDLED B**
Sources access		Removable **ZEDLED B** module
Optics and light distribution options		Mono lenses: ERS, ERL, ECL
OPTIONS	**REP + CA2P** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the luminaire by unlocking and rotation of the cover. {1}

Maintenance

Access to the LED module by lifting the diffuser and locking it in the high position with a hook.

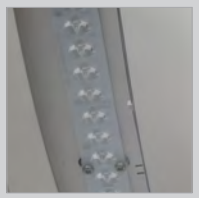
LIKE

Luminaire design: ECLATEC

LIKE is a welcome guest.

Its silhouette fits spontaneously in pedestrian lighting applications, parks, in housing developments or on cycle paths.

The inhabitants will recognise, at first sight, its simplicity and, during the day or night, approve its efficiency; the eye accepts its presence in an instant.



LIKE, you love it instantly, immediately, at the speed of a click, like a **LIKE**

LIKE

APPLICATIONS

- Mounting: top
- Carparks, parks and gardens, pedestrian paths, cycle paths.
- Recommended heights: 3,5 to 6 m

DESCRIPTION

- LIKE available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium bottom and canopy
- Injected die cast aluminium bottom and canopy
- Two-material polycarbonate white and clear bowl
- Polyester powder coating, any colour available (depending on level)
- IP66
- IK10
- Class I or II
- **ORALENS** mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

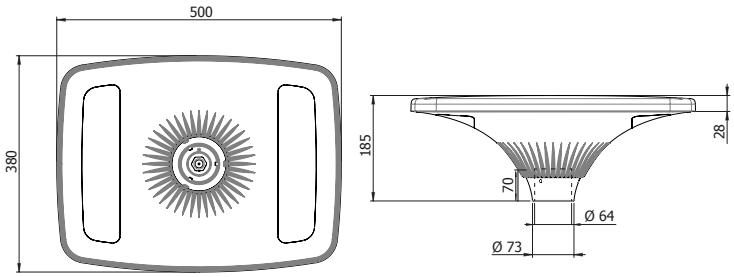
- Materials used: Aluminium 66%, Other 3%, Steel 7%, Plastic 24%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- Post-top fixation for pole Ø 60/62mm, fastened by 3 screws
- For standard Ø 76 mm pole, C tip available as an option (see page 246)



KEY POINTS

		LIKE		
		1E ★	2E A / B ★★	3E ★★★
Applications		Carparks, parks and gardens, pedestrian paths, cycle paths.		
Recommended heights		3,5 to 6 m		
Mounting		Post-top fixation for pole Ø 60/62mm and Ø 76mm with spigot Ø 60 x 70 mm, fastened by 3 screws		
Dimensions	Length width height	500 mm 380 mm 185 mm		
Weight		4,3 kg		
Windage area		0,04 m²		
Colour (•RAL to be chosen)		RAL 7035	•	•
Specific LED sources	LED Module	Specific	Specific	Specific
	Very high Efficiency LED	•	•	•
	High Efficiency LED	-	-	-
Colour temperature	3000 K	-	•	•
	4000 K	•	•	•
Optics and light distribution options		ERS, ERL	ERS, ERL, ECL	
Power supply current (mA)		700 mA	A: ANF* B: 700 mA	100 to 700 mA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○
	Dimming 5 (preset)	-	-	○
	Motion (setting on site)	-	-	-
	Motion 5 (preset)	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	-
	DALI (preset)	-	-	○
	FC (preset)	-	-	○
Protection Driver	10 kv	-	-	•
	8 kv	•	•	-
	4 kv	-	-	
Class	Class I	-	•	•
	Class II	•	•	•
Pre-wired		-	○	○
Mechanical interfaces	Top cover Ø60/62 mm	•	•	•
	Top cover Ø76 mm	○ (accessory)	○ (accessory)	○ (accessory)

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time

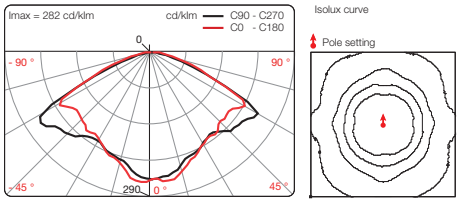
Glossary:

● Standard ○ Option – Not available

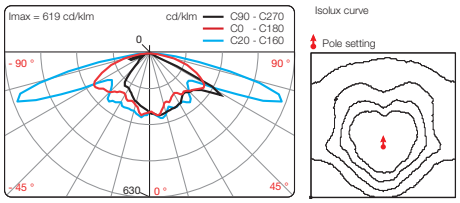
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

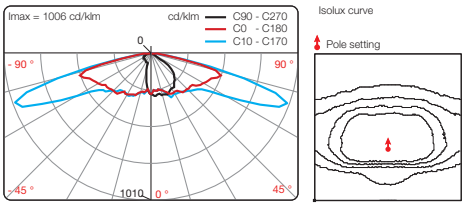
LIKE - ECL



LIKE - ERL



LIKE - ERS



MAINTENANCE

In keeping with the state of the art (initial assembly in dedicated rooms for reasons of cleanliness, static control and waterproofing…) it is recommended that, in general, you operate by standard exchange of luminaires.

ECLATEC

INDEX

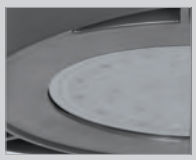
Luminaire design: ECLATEC

INDEX gives an intelligible know-how to urban contexts; its proportions come from the quasi-mathematical result of a rule of three:

- it fits into a contemporary equation with determination.

- resolve the triple proportions of a volume, with a scale and lightness targeting harmony

- offer a fundamental tool for the town, combining its outline with urban lines by day and dispensing a methodically dosed light by night



INDEX MODULE

INDEX LED

INDEX LED

APPLICATIONS

- Mounting: top
- Car parks, parks and gardens, residential lighting
- Recommended heights: 3 to 6 m

DESCRIPTION

- Injection die-cast aluminium body
- Aluminium cap underside painted in white color, Ø 800mm
- 3 extruded aluminium arms
- base in injected aluminium
- Domed base cover in injected aluminium, underside painted in white color to mirror the light
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- **LED** module with **ORALENS** PMMA lenses
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

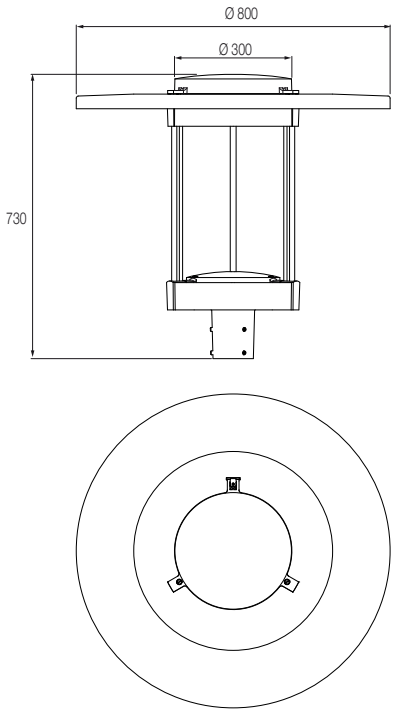
- Materials used: Aluminium 93%, Other 4%, Inox 2%, Plastic 1%
- Complies with the RoHS directive
- ULR < 3%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Silicone gasket on the canopy and base
- Power cable secured by cable-gland

MECHANICAL INTERFACES

- Post-top fastening on pole Ø 76 mm, fastened with 6 STHC screws



INDEX

KEY POINTS

		INDEX LED
Applications		Car parks, parks and gardens, residential lighting
Recommended heights		3 to 6 m
Mounting		Post-top fastening on pole Ø 76 mm, fastened with 6 STHC screws
Dimensions	**Ø** **height**	800 mm 730 mm
Weight		11 kg
Windage area		0,10 m²
Source		**LED Specific**
Sources access		Removable **LED** module
Optics and light distribution options		Mono lenses: ERS, ERL, ECL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	–
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	–
	Motion 5 (preset)	–
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

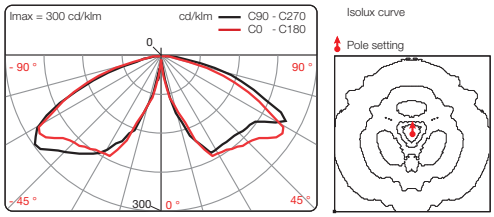
Glossary:

● Standard o Option – Not available

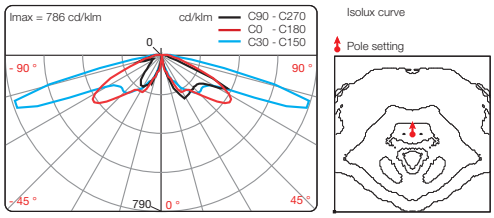
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

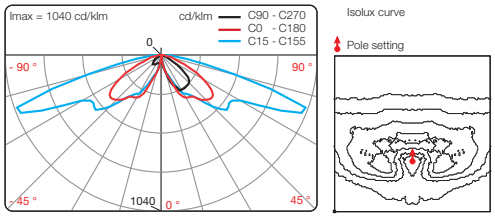
INDEX LED - ECL



INDEX LED - ERL



INDEX LED - ERS



MAINTENANCE

Lighting equipment maintenance

Access to the equipment after removal of the base cover. (3 screws)

Source maintenance

Access to the LED source after opening the upper cover. (3 trapped screws)

REFLEX

Luminaire design: Jean-Michel WILMOTTE

REFLEX masters the delicate exercise of combining reason and mystery to the millimetre. By day, **REFLEX** raises up as the master of reason.

The absolute harmony of its proportions evokes the virtues of purity attributed to the reason of the Age of …the Enlightenment

By night, a halo that seems suspended in the air dispenses a comfortable and reassuring light to the inhabitants.
REFLEX, a pioneer of indirect lights, keeps its relevance thanks to LED sources.

In the direct version, the energy efficiency of the source is obvious and its compact nature respects the lightness of its veil.

In the indirect version, the output of the LED solution leaves the classic sources available in this configuration far behind.

In this new world of savings, reason triumphs again without betraying the magic of the creator.

LEOLED MODULE

ORALED MODULE


hôtel de ville


Avenue
Michel RICARD

GAMME REFLEX

Luminaire design: Jean-Michel WILMOTTE

RoHS | IP 66 | IK 08 | <1% 0°5° ULR | REFLEX DIRECT : 4-6 m REFLEX INDIRECT : 4-5 m

REFLEX INDIRECT

REFLEX DIRECT

APPLICATIONS

- Mounting: top
- Car parks, parks and gardens, residential lighting
- Recommended heights: 4 to 5 m

DESCRIPTION

- Bladed cone and arms made of injected aluminium
- Diffuser made of Composite material
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Reflex direct
  - **ORALED 1** module with **ORALENS** module painted 2150 or 2900 sanded grey
  - Colour temperature: 4000 K and 3000 K
  - Indirect decorative lighting in the bladed cone
- Reflex indirect:
  - **LEOLED** module with pressed glass **ORALENS** mono lense
  - Colour temperature: 3500 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 57%, Polyester 38%, Steel 3%, Glass 2%
- Complies with the RoHS directive
- Reflex direct ULR < 1%, Reflex indirect ULOR ≤ 17%
- High recyclability rate

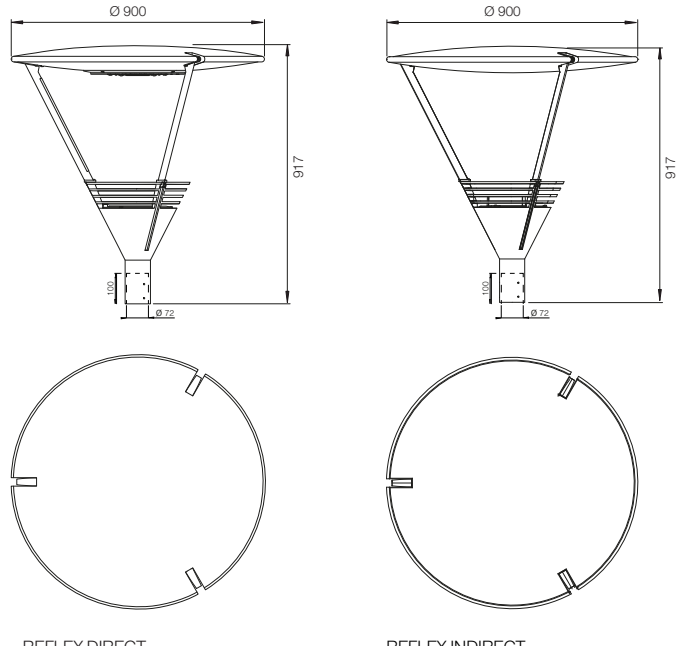
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device

Grommet (Reflex direct)

MECHANICAL INTERFACES

- Post top fastening on a specific steel pole Ø 90 mm with spigot Ø 70 x 100 mm



Reflex Direct *Reflex Indirect*

KEY POINTS

		REFLEX DIRECT	REFLEX INDIRECT
Applications		Car parks, parks and gardens, residential lighting	
Recommended heights		4 to 5 m	
Mounting		Post top fastening on a specific steel pole Ø 90 mm with spigot Ø 70 x 100 mm	
Dimensions	**Ø** **height**	900 mm 917 mm	
Weight		15,1 kg	13,1 kg
Windage area		0,08 m²	
Sources		ORALED 1	LEOLED
Sources access		Removable **ORALED 1** module	Removable **LEOLED** module
Optics and light distribution options		Mono lenses: ERS, ERL, ECL, LRM	Mono lense: ECL
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o*	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	-	o
	Motion 5 (preset)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	-	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	Compatible with standard version, Dimming 5 or DALI option

* Uniquely integrated into the luminaire

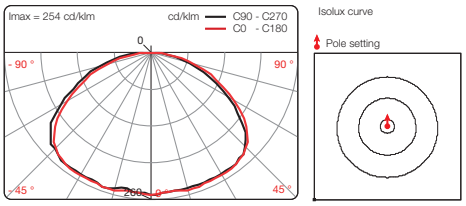
Glossary:

● Standard o Option - Not available

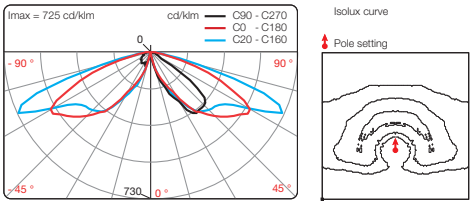
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Ro**a**d/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

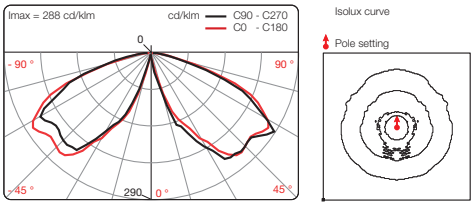
REFLEX **LEOLED -** ECL



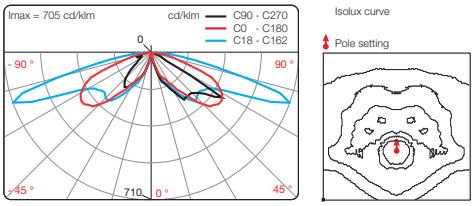
REFLEX **ORALED** - ERS



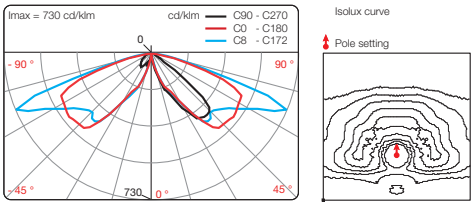
REFLEX **ORALED** - ECL



REFLEX **ORALED** - ERL



REFLEX **ORALED** - LRM



MAINTENANCE

Reflex direct maintenance

Removal of the **ORALED 1 m**odule by 4 screws.

ORALED 1 module interchangeable onsite.

Removable ORALED 1 module

Reflex indirect maintenance

Removal of the LEOLED module by 3 screws.

ECLATEC

ELIPT

Luminaire design: Jean-Michel Wilmotte

ELIPT is a well-bred luminaire, a cross between deep appreciation of the lines and rigorous control of its volumes. Associated with a rich combination of cross-arms, **ELIPT** maintains a timeless balance under all circumstances.

Its subtle modernism is most welcome in all contexts, bringing energy and dynamism.

ELIPT accepts ORALED 1, 2 and BLS STRIPSs. The luminaire is associated with a rich choice of rods and cross-arms.

ORALED MODULE

BLS STRIPS

Elipt on Para bracket

Elipt on Golf bracket

Elipt on Architek bracket

ELIPT

Luminaire design: Jean-Michel WILMOTTE

RoHS | IP 66 | IK 10 | <1% 0°5° ULR | ELIPT 45 : 4-6 m | ELIPT 55 : 6-10 m

ELIPT 45 With ORALED module

ELIPT 55 With BLS STRIPS

APPLICATIONS

- Mounting: top, bitop and side entry
- Elipt 45: Pedestrian areas, cycle paths, residential areas, street lighting
  Elipt 55: Roads, secondary urban and inter-urban streets
- Recommended heights: Elipt 45: 4 to 6 m / Elipt 55: 6 to 10 m

DESCRIPTION

- Luminaire available in 2 sizes: Elipt 45 and Elipt 55
- Body and frame in injected die-cast aluminium
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP66
- ORALED 1,2: IK08, BLS STRIPS: IK10
- Class I or II
- **ORALED** modules with **ORALENS** lenses,
  ORALED 1,2 module painted 2150 or 2900 sanded grey
  BLS STRIPS : holder painted 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

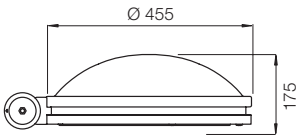
- Materials used:
  - Elipt 45: Aluminium 84%, Other 9%, Steel 4%, Plastic 3%
  - Elipt 55: Aluminium 86%, Other 7%, Steel 4%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

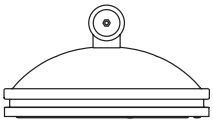
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

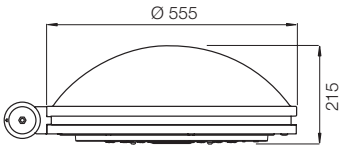
MECHANICAL INTERFACES

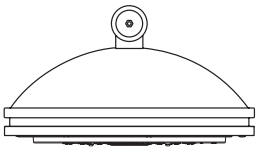
- LRL: Elipt side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60mm. Tilts from -90° to + 90° (see page 246 - E, F)
- LRM: Elipt Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- LR: Elipt side entry with swivel joint and Ø ¾" thread for female boss welded onto pole or bracket. Tilts from -90° to + 90° (see page 246 - G)
- Top or Bitop fitting for pole Ø 60/62mm / l=100 mm
  For pole Ø 76mm top, optional spigot A (see page 246) Luminaire tilted at 0° and 10°
- LL: Elipt side entry coupled with sleeve for bracket end with external Ø 60mm (see page 246 - E, F)
- Elipt on cast aluminium plate (see page 246 - J)
- Elipt on cast aluminium wall bracket
- SR: Elipt suspended with swivel joint (see page 246 - H)
- CATELUX: Elipt with SM Ø27 PDG fixation. Fixation on 5 to 14mm diameter mechanical cable
- SCO: Elipt on catenary mounting. Attachment on 5 to 14mm diameter mechanical cable





Elipt 45 - BLS STRIPS





Elipt 55 - ORALED

KEY POINTS

		ELIPT 45	ELIPT 55
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		See Mechanical interfaces	
Dimensions	**Ø** **height**	455 mm 175 mm / 158 mm	555 mm 215 mm / 199 mm
Weight		9,9 kg	13,7 kg
Windage area		0,07 m²	0,09 m²
Sources		**ORALED 1** **BLS STRIPS**	**ORALED 2** **BLS STRIPS**
Sources access		Removable **ORALED** modules	
Optics and light distribution options (1)		**ORALED 1:** ECL, ERS, ERL, LRM **ORALED 1 BLS:** ERS, ERL, ECa, LRS, LRL, ERE, ETS, PFA, EPD, EPG	**ORALED 2:** ERS, ERL, LRM, LRE **ORALED 2 BLS:** ERS, ERL, ECa, LRS, LRL, ERE, PFA
Power supply current (mA)		**ORALED 1 and 2:** 100 bis 700 mA **BLS STRIPS:** Fest 700 mA ohne optionen oder 100 bis 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	o*	-
	Motion 5 (setting on site)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned * Option only available with BLS STRIPS

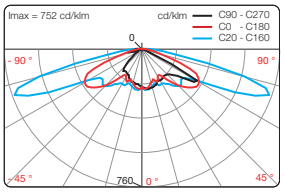
Glossary:

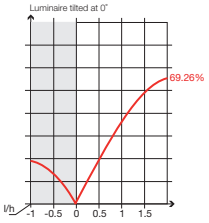
● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **Ro**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: **N**a**rrow**/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

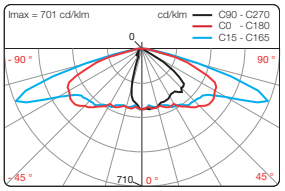
PHOTOMETRIC DISTRIBUTIONS

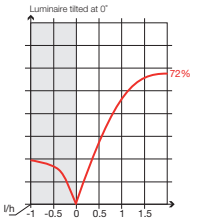
ORALED - ERL



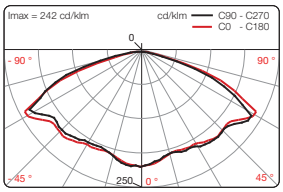


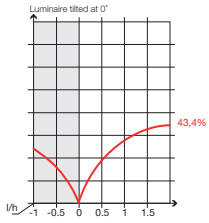
ORALED - LRM



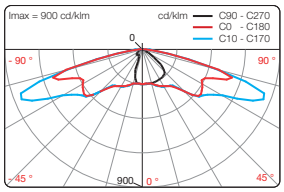


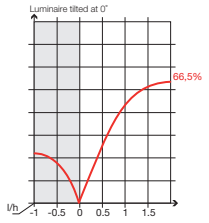
ORALED - ECL



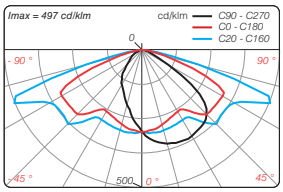


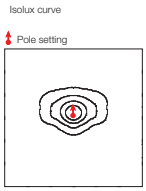
ORALED - ERS



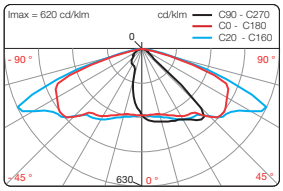


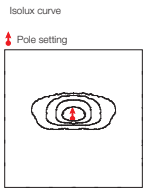
ORALED BLS - LRL





ORALED BLS - LRS





MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The ORALED module swivels around a hinge in aluminium.

ORALED maintenance

Direct access to ORALED module, removable.
Power supply by quick connectors

CHORUS

Luminaire design: ECLATEC

CHORUS exists by way of a disconcerting simplicity, without tricks, but also asserts itself beyond this apparent facility as the eye quickly recognises that its discretion is welcome.

Its silhouette avoids banality because of its reassuring balance; it holds the eye just as it should in the urban panorama, without exaggeration, by offering a catch-all relevance that is continually renewed.

ORALED MODULE

BLS STRIPS

BLS STRIPS

CHORUS accepts **ORALED 1, 2** and **BLS STRIPS**s.
CHORUS X accepts **BLS STRIPS.**

Chorus X on top spigot

Chorus on Lima bracket

Chorus on Alto bracket

CHORUS

RoHS | IP 66 | IK 10 | ≤1% 0°5° ULR | CHORUS 45 : 4-6 m CHORUS 55 : 6-10 m

CHORUS 45 With ORALED module

CHORUS 55 With BLS STRIPS

APPLICATIONS

- Mounting: top, bitop and side entry
- Chorus 45: Pedestrian areas, cycle paths, residential areas, street lighting
  Chorus 55: Roads, secondary urban and inter-urban streets
- Recommended heights: Chorus 45: 4 to 6 m / Chorus 55: 6 to 10 m

DESCRIPTION

- Luminaire available in 2 sizes: Chorus 45 and Chorus 55
- Body and frame in injected die-cast aluminium
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP66
- ORALED 1,2: IK08, BLS STRIPS: IK10
- Class I or II
- **ORALED** modules with **ORALENS** lenses,
  ORALED 1,2 module painted 2150 or 2900 sanded grey
  BLS STRIPS: holder painted sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

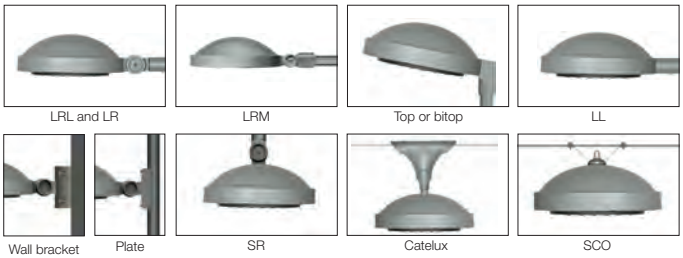
- Materials used:
  - Chorus 45: Aluminium 84%, Other 9%, Steel 4%, Plastic 3%
  - Chorus 55: Aluminium 86%, Other 7%, Steel 4%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

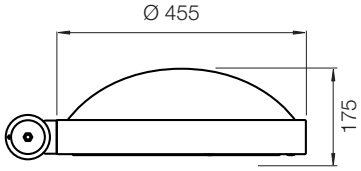
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

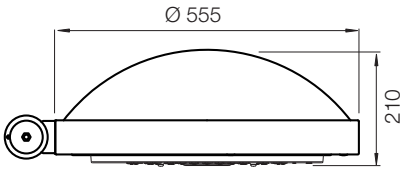
MECHANICAL INTERFACES

- LRL: Chorus Side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60mm. Tilts from -90° to + 90° (see page 246 - E, F)
- LRM: Chorus Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- LR: Chorus side entry with swivel joint and Ø ¾" thread. Tilts from -90° to + 90° (see page 246 - G)
- Top or Bitop fitting for pole Ø 60/62mm / l=100 mm
  For pole Ø 76mm top, optional spigot A (see page 246) Luminaire tilted at 0° and 10°
- LL: Chorus side entry coupled with sleeve for bracket end with external Ø 60mm (see page 246 - E, F)
- Chorus on cast aluminium plate (see page 246 - J)
- Chorus on cast aluminium wall bracket
- SR: Chorus suspended with swivel joint (see page 246 - H)
- CATELUX: Chorus with SM Ø27 PDG fixation. Fixation on 5 to 14mm diameter mechanical cable
- SCO: Chorus on catenary mounting. Fixation on 5 to 14mm diameter mechanical cable





Chorus 45 - BLS STRIPS



Chorus 55 - ORALED

KEY POINTS

		CHORUS 45	CHORUS 55
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		Top, bitop and side entry	
Dimensions	**Ø** **height**	455 mm 175 mm / 158 mm	555 mm 210 mm / 193 mm
Weight		9,9 kg	13,7 kg
Windage area		0,07 m²	0,09 m²
Sources		**ORALED 1** **BLS STRIPS**	**ORALED 2** **BLS STRIPS**
Sources access		Removable **ORALED** modules	
Optics and light distribution options (1)		**ORALED 1:** ECL, ERS, ERL, LRM **ORALED 1 BLS:** ERS, ERL, ECa, LRS, LRL, ERE, ETS, PFA, EPD, EPG	**ORALED 2:** ERS, ERL, LRM, LRE **ORALED 2 BLS:** ERS, ERL, ECa, LRS, LRL, ERE, PFA
Power supply current (mA)		**ORALED 1 und 2:** 100 bis 700 mA **BLS STRIPS:** Fest 700 mA ohne optionen oder 100 bis 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	o*	-
	Motion 5 (setting on site)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned * Option only available with BLS STRIPS

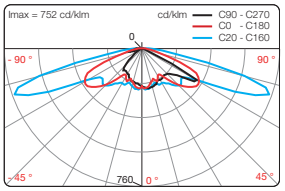
Glossary:

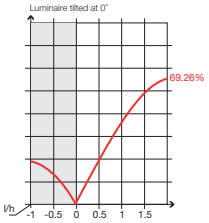
● Standard o Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

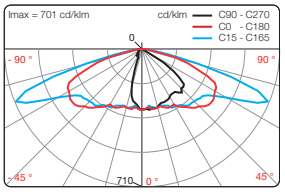
PHOTOMETRIC DISTRIBUTIONS

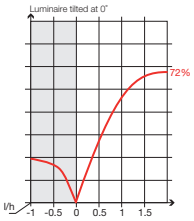
ORALED - ERL



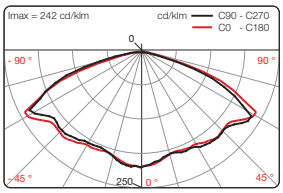


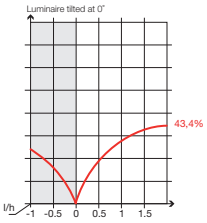
ORALED - LRM



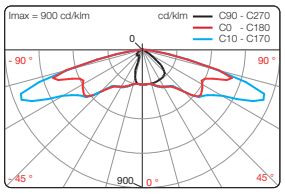


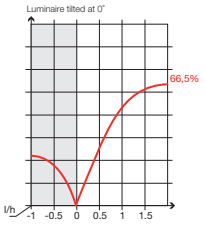
ORALED - ECL



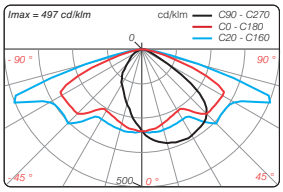


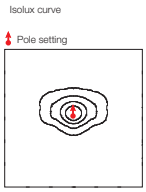
ORALED - ERS



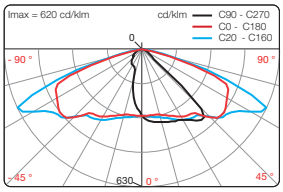


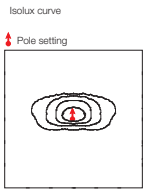
ORALED BLS - LRL





ORALED BLS - LRS





MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The **ORALED** module swivels around a hinge in aluminium.

ORALED maintenance

Direct access to ORALED module, removable.
Power supply by quick connectors.

LED LUMINAIRES

CHORUS X

RoHS | IP 66 | IK 08 | ≤1% 0°5° ULR | CHORUS X : 6-9 m

CHORUS X

APPLICATIONS

- Mounting: top, high and lateral
- Roads, secondary urban and inter-urban streets
- Recommended heights: 6 to 9 m

DESCRIPTION

- Body, cover, flaps and module in injection moulded aluminium
- Bowl in thermally tempered glass
- Polyester powder coating, any colour available
- IP66
- IK08
- Classe 1 or 2
- **ORALENS** mono lenses
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

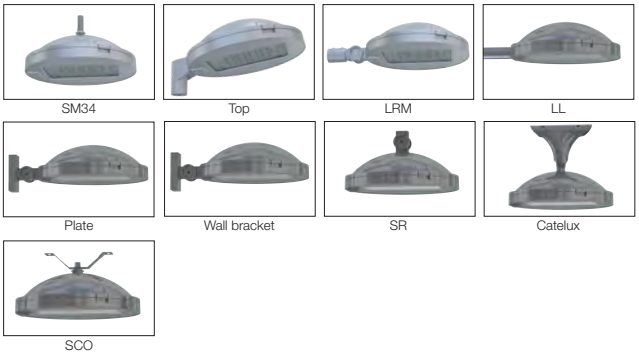
- Materials used: Aluminium 73%, Other 10%, Steel 5%, Glass 12%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

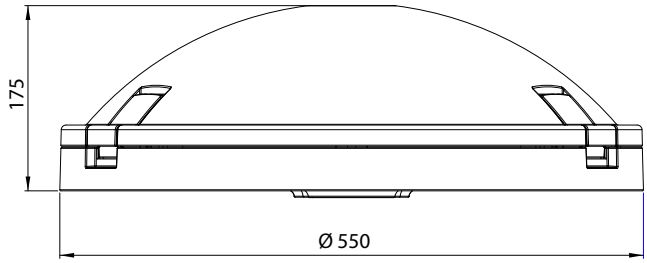
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- SM34: High mounting for 34Pdg ball
- TOP: wrapping for Ø60/62 mm pole / l=100 mm
  For standard Ø 76mm pole, special tip available as an option
  luminaire tilt at 0° and 10°
- **LRM**: Chorus X Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm outside and Ø 42mm
- LL: side entry coupled with sleeve for bracket end with external Ø 60mm
- Cast aluminium plate
- Cast aluminium wall bracket
- SR: suspended with swivel joint
- **CATELUX**: SM Ø27 PDG fixation. Fixation on 5 to 14mm diameter mechanical cable
- **SCO**: Catenary mounting. Fixation on 5 to 14mm diameter mechanical cable





KEY POINTS

		CHORUS X
Applications		Roads, secondary urban and inter-urban streets
Recommended heights		6 to 9 m
Mounting		top, high and lateral
Dimensions	**Ø** **height**	550 mm 175 mm
Weight		12,5 kg
Windage area		0,09 m²
Sources		BLS strips
Sources access		Opening and replacement without tools of the equipment or the LED module
Optics and light distribution options		ERS, ERL, ECa, ERE, LRS, LRL, PFA Rearward light spill cover option for facades
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version and Dimming 5 option

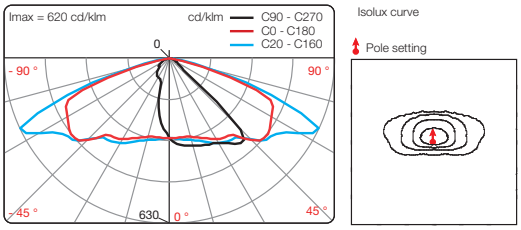
Glossary:

● Standard o Option - Not available

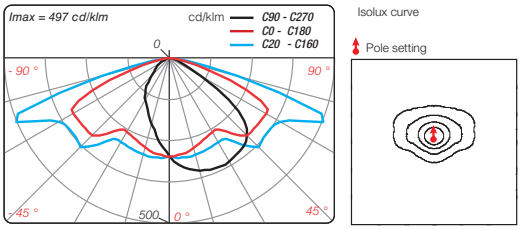
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

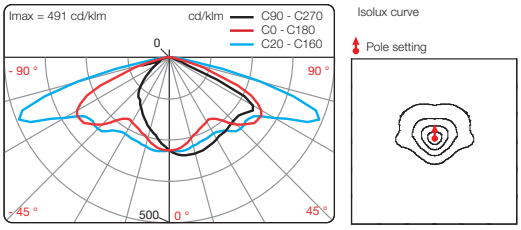
CHORUS X - LRS



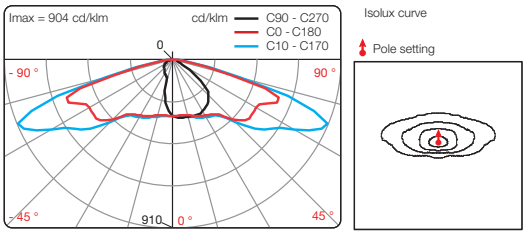
CHORUS X - LRL



CHORUS X - ERL



CHORUS X - ERS



MAINTENANCE

Opening and closing

The luminaire cover can be opened without tools using the 2 flaps {1}
The luminaire is held in the open position by a safety prop. {2}

Source maintenance

Automatic cutting of the power supply when the luminaire is opened by a dedicated ECLATEC connector

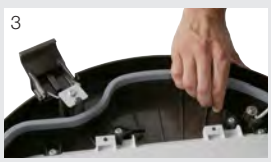
Quick electrical disconnection without tools.
Equipment circuit board removable onsite without tools

Complete LED module removable onsite without tools {3, 4}

1

2

3



4

METRO

Luminaire design: Eclatec

METRO sets the tone in a magic partition.

Behind this note, this line, this arc, this outline lives a soul, that invites composition; in fact, METRO knows how to surround itself with a variety of cross-arms in unison with its sweet melody.

METRO, in these combinations, provides the up-to-date and lively tempo that, mutedly, accompanies the urban symphony.

ORALED MODULE

Metro on Noa bracket

Metro on Gem bracket

Metro on Tecla bracket

METRO

RoHS | IP 66 | IK 08 | <1% 0°5° ULR | METRO 45 : 4-6 m | METRO 55 : 6-8 m

METRO 45

METRO 55

APPLICATIONS

- Mounting: suspended from a ball or a catenary
- Metro 45: Pedestrian areas, cycle paths, residential areas, street lighting
  Metro 55: Roads, secondary urban and inter-urban streets
- Recommended heights: Metro 45: 4 to 6 m / Metro 55: 6 to 8 m

DESCRIPTION

- Luminaire available in 2 sizes: Metro 45 and Metro 55
- Spun aluminium body
- Injection die cast aluminium frame and upper swivel joint
- Polyester powder coating, any colour available
- IP65
- IK08
- Class I or II
- **ORALED 1, 2** modules with **ORALENS** lenses,
  module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used:
  - Metro 45: Aluminium 83%, Other 13%, Plastic 4%
  - Metro 55: Aluminium 86%, Other 10%, Plastic 4%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Pneumatic silicone gasket

MECHANICAL INTERFACES

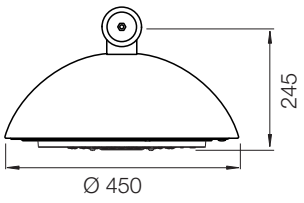
- LRM: Metro Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- SRL: Metro suspended with plain swivel joint coupled with sleeve for bracket end external Ø 60mm (see page 246 - E, F)
- SR: suspended from a ball (see page 246 - H)
- SM: Metro suspended with 3/4" BSP adapter for female boss welded to bracket (see page 246 - H)
- CATELUX: Metro with SM Ø27 PDG fixation
  Fixation on 5 to 14mm diameter mechanical cable
- SCO: Metro catenary version
  Fixation on 5 to 14mm diameter mechanical cable

SRL

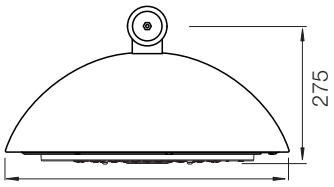
Catelux

SM

SCO



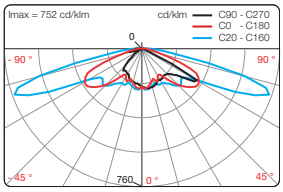
Metro 45

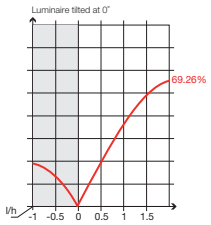


Metro 55

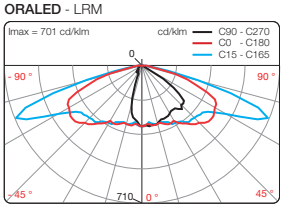
PHOTOMETRIC DISTRIBUTIONS

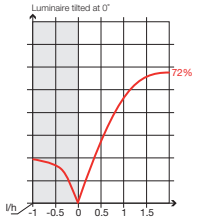
ORALED - ERL



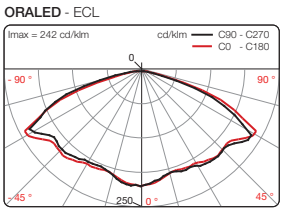


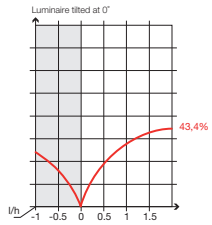
ORALED - LRM



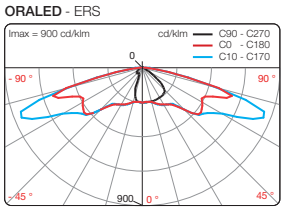


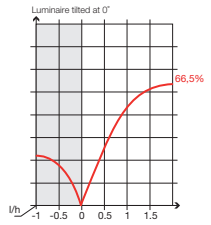
ORALED - ECL





ORALED - ERS





KEY POINTS

		METRO 45	METRO 55
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 8 m
Mounting		See Mechanical interfaces	
Dimensions	**Ø** **height**	465 mm 245 mm	565 mm 275 mm
Weight		6,6 kg	9,3 kg
Windage area		0,06 m²	0,09 m²
Sources		**ORALED 1**	**ORALED 2**
Sources access		Removable **ORALED** modules	
Optics and light distribution options		Mono lenses: ECL, ERS, ERL, LRM	Mono lenses: ERS, ERL, LRM, LRE
Power supply current (mA)		**ORALED 1 and 2:** 100 to 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (setting on site)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

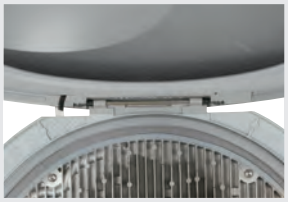
Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The **ORALED** module swivels around a hinge in aluminium.

ORALED maintenance

Direct access to ORALED module, removable.

Power supply by quick connectors.



INDICE

Luminaire design: Eclatec

This luminaire well hides its game; this intention inspired the creation of **INDICE**.

Over and above its apparent wisdom, on examination, this luminaire reveals a more playful temperament, asserting itself with joy by way of a happy panoply of domes, cross-arms and mountings.

For each usage, each context, each intention, an “interactive” choice is left for the designer, who assembles their idea and loves the joyous simplicity of **INDICE**.

ORALED MODULE

Indice on Massai bracket

Indice on curved pole

Indice on U-bracket

Indice range

Graphic

Spiral

INDICE

RoHS | IP 66 | IK 08 | <1% 0°5° ULR | INDICE 500 : 4-6 m INDICE 620 : 6-8 m

INDICE 500

INDICE 620

APPLICATIONS

- Mounting: top, suspended and side entry
- Indice 500: Pedestrian areas, cycle paths, residential areas, street lighting
  Indice 620: Roads, secondary urban and inter-urban streets
- Recommended heights: Indice 500: 4 to 6 m / Indice 620: 6 to 8 m

DESCRIPTION

- Luminaire available in 2 sizes: Indice 500 and Indice 620
- Body and frame in injected die-cast aluminium
- Choice of aluminium domes: Graphic, Spiral, Volute and Parabol
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Luminaire pre-wired in the factory (6 m) (except suspended)
- **ORALED 1, 2** modules with **ORALENS** lenses,
  module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used:
  - Indice 500: Aluminium 86%, Plastic 6%, Other 7%, Steel 1%
  - Indice 620: Aluminium 87%, Plastic 6%, Other 6%, Steel 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

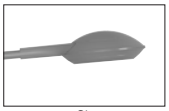
- SC: Indice Suspended spoon coupled with sleeve to suit Ø 60mm bracket arm (Graphic dome) (see page 246 - E, F)
- L: Indice side entry fitting for bracket end with external Ø 60mm (any dome) (see page 246 - E, F)
- Top: Indice Top fitting for pole Ø 60/62mm (any dome) (see page 246 - D)
- LL: Indice lateral U-bracket (any dome) (see page 246 - E, F)
- SL: Indice lateral suspended for bracket end with external Ø 60mm(graphic dome)
- LP: Indice top mounted U-bracket Ø 60mm/ l=100 mm(any dome) (see page 246 -A)
- SM: Indice Suspended with Ø ¾" thread (any dome) (see page 246 - H)
- SR: Indice suspended with swivel joint (any domes) (see page 246 - E, F)
- CATELUX: Indice with SM Ø27 PDG fixation. Fixation on 5 to 14mm diameter mechanical cable


SC


L


Top


LL

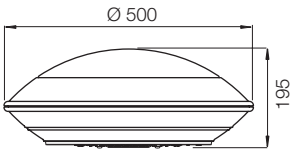

SL


LP

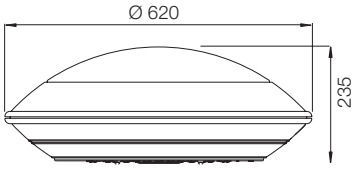

SM


SRL

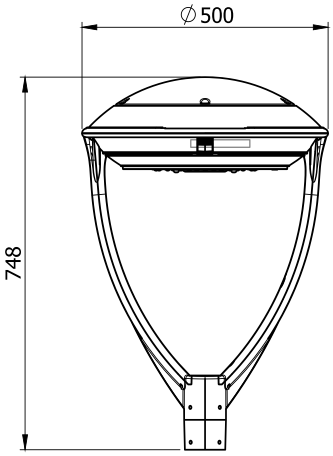

Catelux



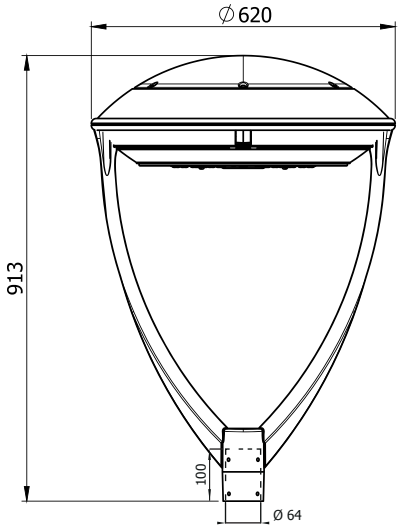
Indice 500



Indice 620



Indice Lyre 500



Indice Lyre 620

KEY POINTS

		INDICE 500	INDICE 620
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 8 m
Mounting		See Mechanical interfaces	
Dimensions	**Ø** **height**	465 mm 245 mm	565 mm 275 mm
Weight		6,6 kg	9,3 kg
Windage area		0,06 m²	0,09 m²
Sources		ORALED 1	ORALED 2
Sources access		Removable **ORALED** modules	
Optics and light distribution options		Mono lenses: ECL, ERS, ERL, LRM	Mono lenses: ERS, ERL, LRM, LRE
Power supply current (mA)		**ORALED 1 and 2:** 100 to 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (setting on site)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

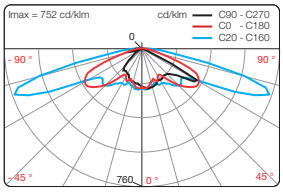
Glossary:

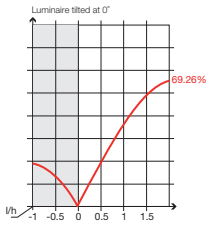
● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

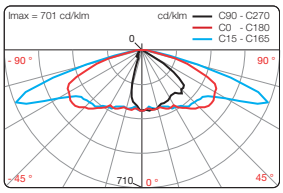
PHOTOMETRIC DISTRIBUTIONS

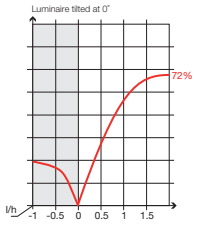
ORALED - ERL



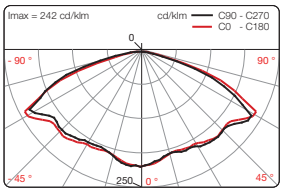


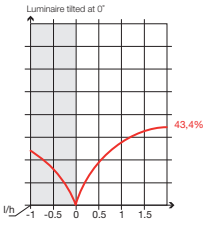
ORALED - LRM



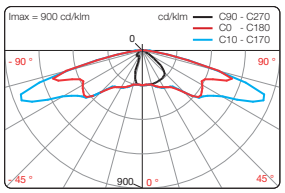


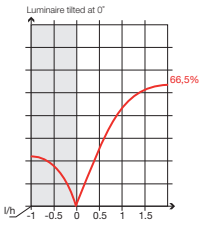
ORALED - ECL





ORALED - ERS





MAINTENANCE

Opening and closing

Opening of the luminaire without tools by pressing the button incorporated into the luminaire body. {1}
The luminaire is held in the open position by a safety prop. {2}

ORALED maintenance

Direct access to ORALED module, removable.

Power supply by quick connectors.

INDICE CONIC

Luminaire design: GHM

The shape and volume of **INDICE CONIC** make it one of the most popular luminaires for road and urban lighting, in a semi-decorative interpretation.

This luminaire fits naturally into the outskirts of towns and villages as well as in city centres. The luminaire is suitable for suspended or lateral mounting, and there is also a STIRRUP (U-bracket) for stylish adaptation to pole-top mounting.

In its LED version, **INDICE CONIC** takes the ORALED 2 LED module.

ORALED MODULE

Indice Conic on Oregon bracket

Indice Conic on Ocean bracket

Indice Conic on Ocean bracket

INDICE CONIC

INDICE CONIC

APPLICATIONS

- Mounting: suspended, lateral, U-bracket
- Urban streets, pedestrian walkways, cycle paths and squares
- Recommended heights: 6 to 8 m

DESCRIPTION

- Injection die-cast aluminium body
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Integrated control gear
- **ORALED 2** module with **ORALENS** lenses
  Module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used:
  - Indice Conic Led: Aluminium 88%, Other 5%, Steel 4%, Plastiques 3%.
  - Indice Conic Led Lyre: Aluminium 91%, Other 4 %, Steel 3%, Plastiques 2%
- Complies with the RoHS directive.
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

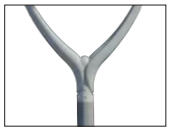
MECHANICAL INTERFACES

- Indice Conic suspended version: with swivel joint and Ø ¾" thread for female boss (see page 246 -I)
- Indice Conic lateral version: for Ø 60mm bracket (see page 246 - E, F)
- Indice Conic U-bracket: for spigot Ø 49mm, L 70mm (see page 246 - M)
- U-bracket trim for Ø 76 mm
- U-bracket trim for Ø 90 mm

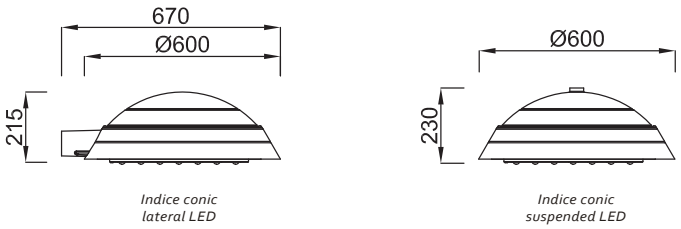

Suspended


Lateral


U-bracket

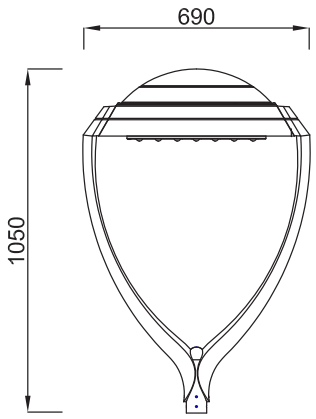

U-bracket trim for Ø 76 mm


U-bracket trim for Ø 90 mm



Indice conic lateral LED

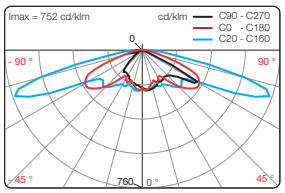
Indice conic suspended LED

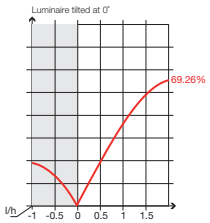


Indice conic stirrup bracket LED

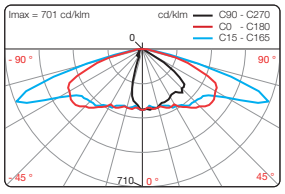
PHOTOMETRIC DISTRIBUTIONS

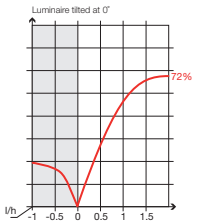
ORALED - ERL



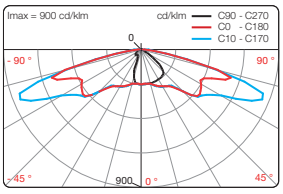


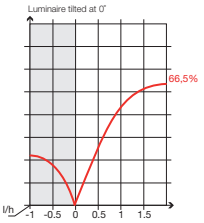
ORALED - LRM





ORALED - ERS





KEY POINTS

		INDICE CONIC
Applications		Urban streets, pedestrian walkways, cycle paths and squares
Recommended heights		6 to 8 m
Mounting		suspended, lateral, U-bracket
Dimensions	**ø** **height**	**U-bracket**: 690 mm, **suspended:** 600 mm, **lateral**: 670 mm **U-bracket:** 1050 mm, **suspended**: 230 mm, **lateral**: 215 mm
Weight		9 kg
Windage area		0,12 m²
Sources		**ORALED 2**
Sources access		Module **ORALED 2**, amovible
Optics and light distribution options		Mono lenses: ERS, ERL, LRM, LRE
Power supply current (mA)		**ORALED 2:** 100 to 700 mA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (setting on site)	-
	Motion COM (setting on site)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Ro**a**d/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

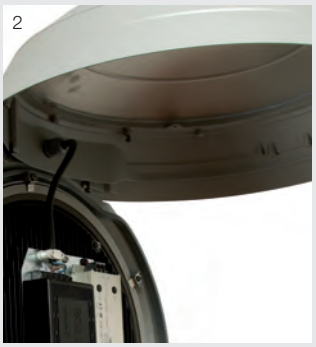
Opening of the luminaire without tools by pressing the button incorporated into the luminaire body. {1}
The luminaire is held in the open position by a safety prop. {2}

ORALED maintenance

Quick connectors to remove the power supply unit. Direct access to ORALED module, removable.

1

2



Réalité Augmentée

TSANA

Luminaire design: Eclatec

Does the design of **TSANA** square the circle?

With **TSANA**, today's technical solutions marry an intangible, immutable form, all contained within the magic ratio of a perfect circle.

Compact and discrete, the silhouette of **TSANA**, enriched by combinations heightening its sober geometry, becomes urban. Available in the most simple of trim, **TSANA** is also suitable for applications where functionality dominates.

ORALED MODULE

BLS STRIPS

BLS STRIPS

Tsana top

Tsana on Chrome bracket

Tsana on plate

TSANA

RoHS | IP 66 | IK 10 | ≤1% 0°5° ULR | TSANA 45 : 4-6 m | TSANA 55 : 6-10 m

TSANA 45 With ORALED module

TSANA 55 With BLS STRIPS

APPLICATIONS

- Mounting: top, bitop and side entry
- Tsana 45: Pedestrian areas, cycle paths, residential areas, street lighting
  Tsana 55: Roads, secondary urban and inter-urban streets
- Recommended heights: Tsana 45: 4 to 6 m / Tsana 55: 6 to 10 m

DESCRIPTION

- Luminaire available in 2 sizes: Tsana 45 and Tsana 55
- Body and frame in injected die-cast aluminium
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP66
- ORALED 1,2: IK08, BLS STRIPS: IK10
- Class I or II
- **ORALED** modules with **ORALENS** lenses,
  ORALED 1,2 module painted 2150 or 2900 sanded grey
  BLS STRIPS: holder painted 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

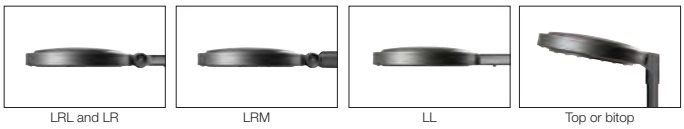
- Materials used:
  - Tsana 45: Aluminium 84%, Other 9%, Steel 4%, Plastic 3%
  - Tsana 55: Aluminium 86%, Other 7%, Steel 4%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- LRL: Tsana Side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60mm Tilts from -90° to + 90° (see page 246 - E, F)
- LRM: Tsana Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- LR: Tsana side entry with swivel joint and Ø ¾" thread for female boss welded onto pole or bracket.Tilts from -90° to + 90° (see page 246 - G)
- LL: Tsana side entry coupled with sleeve for bracket end with external Ø 60mm (see page 246 - E, F)
- Top or Bitop fitting for pole Ø 60/62mm / l=100 mm
  For pole Ø 76mm top, optional spigot A (see page 246)
  Luminaire tilted at 0° and 10°
- Tsana on cast aluminium plate (see page 246 - J)
- Tsana on cast aluminium wall bracket
- SCO: Tsana catenary version. Fixation on 5 to 14mm diameter mechanical cable
- Option: specific trim in die cast aluminium for tube exterior Ø 60mm



LRL and LR | LRM | LL | Top or bitop

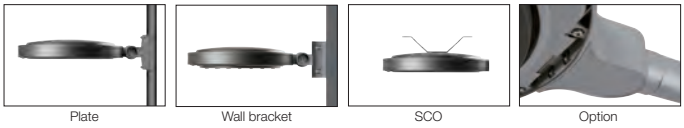
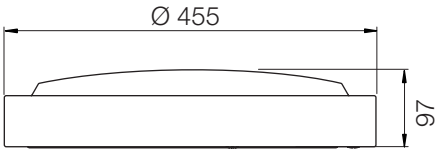
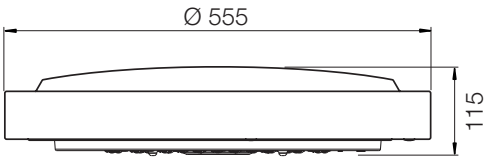


Plate | Wall bracket | SCO | Option



Tsana 45 - BLS STRIPS



Tsana 55 - ORALED

KEY POINTS

		TSANA 45	TSANA 55
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		Top, bitop and side entry	
Dimensions	**Ø height**	455 mm 115 mm / 97 mm	555 mm 115 mm / 97 mm
Weight		9,9 kg	13,7 kg
Windage area		0,05 m²	0,06 m²
Sources		**ORALED 1** **BLS STRIPS**	**ORALED 2** **BLS STRIPS**
Sources access		Removable **ORALED** modules	
Optics and light distribution options (1)		**ORALED 1:** ECL, ERS, ERL, LRM **ORALED 1 BLS:** ERS, ERL, ECa, LRS, LRL, ERE, ETS, PFA, EPD, EPG	**ORALED 2:** ERS, ERL, LRM, LRE **ORALED 2 BLS:** ERS, ERL, ECa, ERE, LRS, LRL, PFA
Power supply current (mA)		**ORALED 1 und 2:** 100 bis 700 mA **BLS STRIPS:** Fest 700 mA ohne optionen oder 100 bis 700 mA	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	o*	-
	Motion 5 (setting on site)	o	-
	Motion COM (setting on site)	o	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned * Option only available with BLS STRIPS

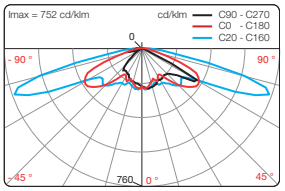
Glossary:

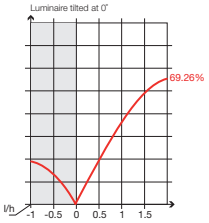
● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

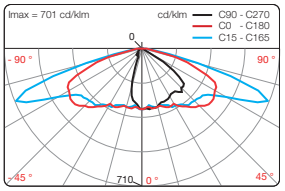
PHOTOMETRIC DISTRIBUTIONS

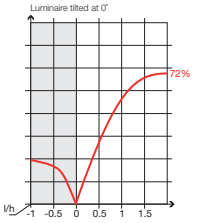
ORALED - ERL



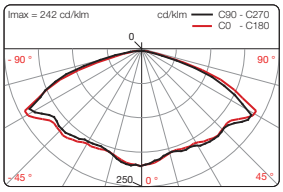


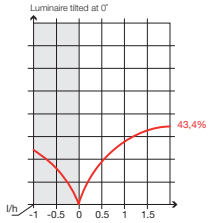
ORALED - LRM



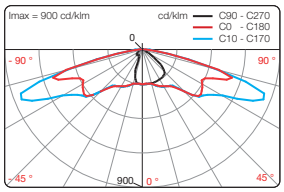


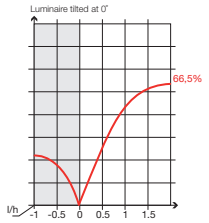
ORALED - ECL



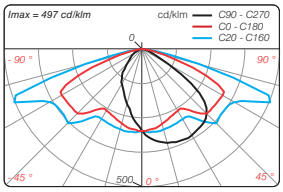


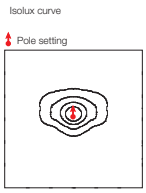
ORALED - ERS



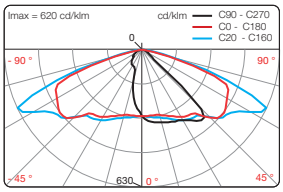


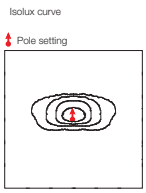
ORALED BLS - LRL





ORALED BLS - LRS





MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws. {1}
The **ORALED** module swivels around a hinge in aluminium. {2}

ORALED maintenance

Direct access to ORALED module, removable.

Power supply by quick connectors.

TSANA X

TSANA X

APPLICATIONS

- Mounting: top, bitop and side entry
- Recommended heights: Tsana X: 7 to 10 m
- Tsana X: Roads, secondary urban and inter-urban streets

DESCRIPTION

- Body, cover paddles and module in die-cast aluminium
- Thermally tempered glass bowl
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

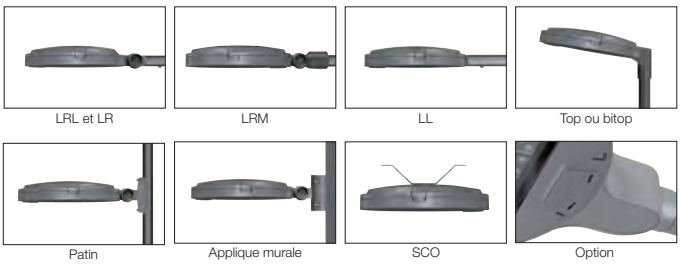
- Materials used: Aluminium 67%, Glass 10%, Steel 5%, Plastic 2%, Other 16%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

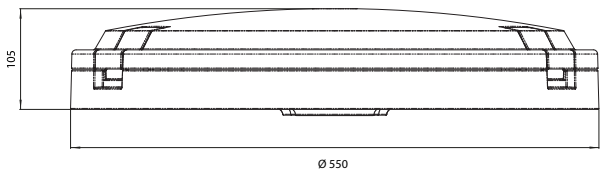
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone seal
- Cable gland
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

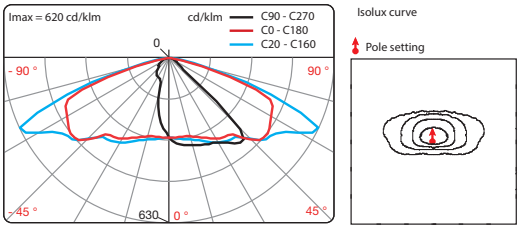
- LRL: Tsana X Side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60mm Tilts from -90° to + 90° (see page 246 - E, F)
- LRM: Tsana X Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- LR: Tsana X side entry with swivel joint and Ø ¾" thread for female boss welded onto pole or bracket.Tilts from -90° to + 90° (see page 246 - G)
- LL: Tsana X side entry coupled with sleeve for bracket end with external Ø 60mm (see page 246 - E, F)
- Top or Bitop fitting for pole Ø 60/62mm / l=100 mm
  For pole Ø 76mm top, optional spigot A (see page 246)
  Luminaire tilted at 0° and 10°
- Tsana X on cast aluminium plate (see page 246 - J)
- Tsana X on cast aluminium wall bracket
- SCO: Tsana X catenary version. Fixation on 5 to 14mm diameter mechanical cable
- Option: specific trim in die cast aluminium for tube exterior Ø 60mm



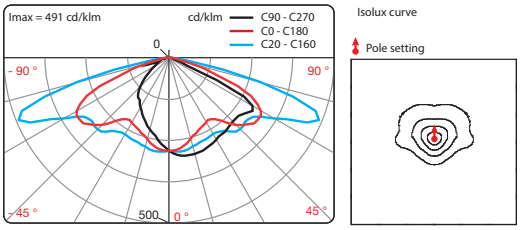


PHOTOMETRIC DISTRIBUTIONS

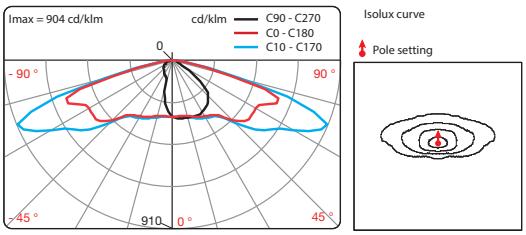
TSANA 55 X - LRS



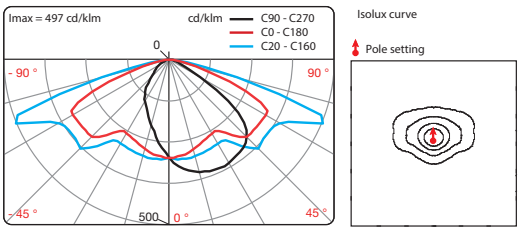
TSANA 55 X - ERL



TSANA 55 X - ERS



TSANA 55 X - LRL



KEY POINTS

		TSANA X
Applications		Roads, secondary urban and inter-urban streets
Recommended heights		7 to 10 m
Mounting		See mechanical interfaces
Dimensions	**Ø** **height**	555 mm 105 mm
Weight		12 kg
Windage area		0,05 m²
Sources		BLS strips
Sources access		Device or LED module opened and replaced without tools
Optics and light distribution options (1)		ERS, ERL, ECa, ERE, LRS, LRL, PFA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

The luminaire cover can be opened without tools using the 2 flaps {1}
The luminaire is held in the open position by a safety prop. {2}

Source maintenance

Automatic cutting of the power supply when the luminaire is opened by a dedicated ECLATEC connector

Quick electrical disconnection without tools.
Equipment circuit board removable onsite without tools

Complete LED module removable onsite without tools {3,4}

1

2

3

4

TILT T

Luminaire design: Eclatec

TILT "ORIGIN" opened the road to medium height lighting in a refined style; this pioneer is essential when mounting on top of the pole is required and it therefore remains available in its original design.

Added to this original luminaire, the new **TILT T** range applies, with its four models, the arguments of top or lateral mounting, thanks to a reversible sleeve and also the argument of modularity and easy intervention.

In effect, the four luminaires in the **TILT** T1, T2, T3 and T4 range accept an easily interchangeable PADLED module and are designed to facilitate rapid access to the equipment.

The nominal flux range scales from 2,000 lm up to 28,000 lm.

BLS STRIPS

Tilt T on Gem bracket

Tilt T on curved pole

Tilt T on Chrome bracket

TILT T

RoHS | IP 66 | IK 09 | ≤1% 0°5° ULR

TILT T1: 4-6 m
TILT T2: 6-8 m
TILT T3: 7-10 m
TILT T4: 7-12 m

TILT T1

TILT T2

TILT T3

TILT T4

APPLICATIONS

- Mounting: top, bitop and side entry
- Recommended heights: Tilt T1: 4 to 6 m / Tilt T2: 6 to 8 m / Tilt T3: 7 to 10 m
  Tilt T4: 7 to 12 m
- Tilt T1: Pedestrian areas, cycle paths, residential areas, street lighting
  Tilt T1/ T2/T3: Roads, secondary urban and inter-urban streets

DESCRIPTION

- Luminaire available in 4 sizes: Tilt T1, Tilt T2, Tilt T3 and Tilt T4
- body and cover made of injected die-cast aluminium
- Polyester powder coating, any colour available
- IP66
- IK09
- Class I or II
- **PADLED** modules with **ORALENS** mono lense and screen printed, thermally toughened flat glass
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Tilt T1: Aluminium 65%, Glass 13%, Other 16%, Steel 5%, Plastic 1%
- Tilt T2: Aluminium 63%, Glass 17%, Other 13%, Steel 6%, Plastic 1%
- Tilt T3: Aluminium 62%, Glass 19%, Other 13%, Steel 5%, Plastic 1%
- Tilt T4: Aluminium 68%, Glass 23%, Plastic 6%, Steel 2%, Other 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- **Top 60 and Top 76:** post top fastening Ø 60mm and Ø 76mm {1}, male bracket fastening for Ø 60 mm {2}
- **L60 and L76:** side female for Ø 60mm and Ø 76mm {3}
- **LL54:** side male mounting for Ø 60mm steel bracket {4} (see page 246 - F)
- **LL48:** side male mounting for Ø 60mm aluminium bracket {4} (see page 246 - E)
- Tilts: Top: 0°, 5°, 10° and 15°, Side: 0°, -5°, -10° and -15°

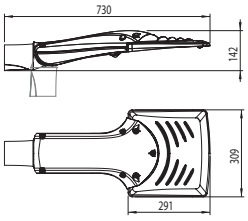
Female fitting for steel and aluminium bracket

Top male fitting for steel and aluminium bracket

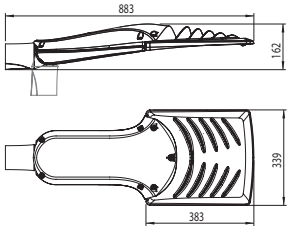
Side female fitting for steel and aluminium brackets

Male fitting for steel and aluminium bracket

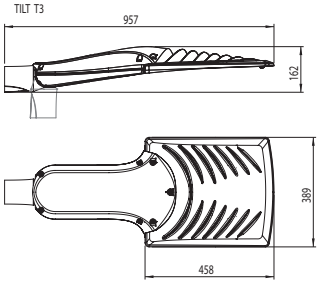
TILT T1



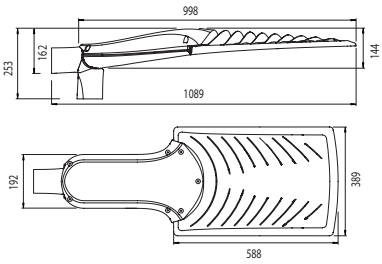
TILT T2



TILT T3



TILT T4



KEY POINTS

		TILT T1	TILT T2	TILT T3	TILT T4
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets		
Recommended heights		4 to 6 m	6 to 8 m	7 to 10 m	7 to 12 m
Mounting		See Mechanical interfaces			
Dimensions	**Length** **width** **height**	730 mm 309 mm 142 mm	883 mm 339 mm 162 mm	957 mm 389 mm 162 mm	998 mm 389 mm 162 mm
Weight		7 kg	10 kg	11,5 kg	13,5 kg
Windage area		0,06 m²	0,07 m²	0,08 m²	0,08 m²
Sources		**PADLED** module (removable) with BLS LED strips			
Sources access		Direct access to the gear after tilting of the canopy			
Optics and light distribution options (1)		ERS, ERL, ECa, ERE, ETS, LRS, LRL, EPD, EPG, PFA			
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o	o	o
	Dimming 5 (preset)	o	o	o	o
	Motion (setting on site)	o*	o	-	-
	Motion P (set in the bottom of the pole)	o	o	o	o
	Motion DALI (set in the bottom of the pole)	-	-	-	-
	Motion 5 (preset)	o*	o	-	-
	Motion COM (setting on site)	-	o	-	-
	DALI (preset)	o	o	o	o
	FC	Compatible with standard version, Dimming 5, Motion 5 or DALI option		Compatible with standard version, Dimming 5 or DALI option	

(1) Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned x BLS 8 and by factory programming

* only on versions with 1 or 2

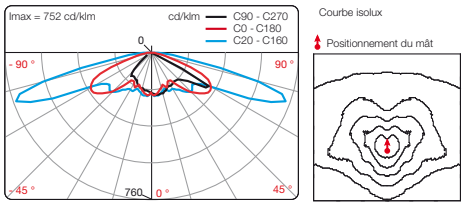
Glossary:

● Standard o Option - Not available

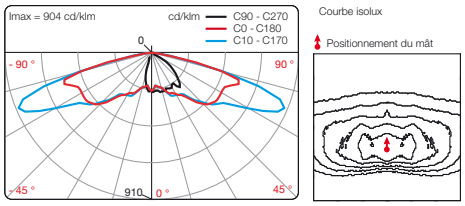
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **R**oad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: **N**a**rr**ow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

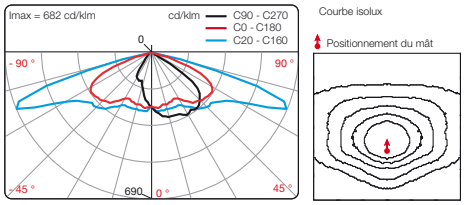
TILT T - ERL



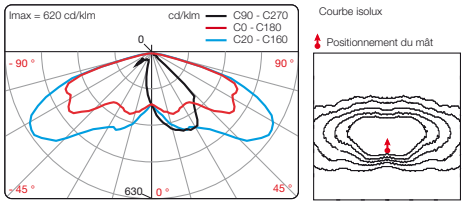
TILT T - ERS



TILT T - LRL



TILT T - LRS



MAINTENANCE

Lighting equipment maintenance

Direct access to the equipment after removal of the cover attached by 4 trapped screws {1}. Removable circuit board.

Source maintenance

A second waterproof compartment houses the optical system. Removal of the **PADLED** attached by 3 trapped screws. {2, 3} Electrical disconnection. Removal of the **PADLED** module.

1

2

3

ZELDA

Luminaire design: Eclatec

The **ZELDA** luminaire is part of the LED technology adventure; it even constitutes a successful outcome in terms of simplicity, efficiency and performance.

Its integrated ball (Easylink ®) ensures rapid and elegant adaptation to top or lateral mounting. The upper cover, removable and interchangeable, accepts all LED sources and control equipment.

ZELDA is available in three sizes and two finishes (S, essential and X, excellence). The S level meets the demand for a maintenance-free fixture whereas the X version allows easy maintenance without tools.

ZELDA, when art walks hand-in-hand with technological progress.

BLS STRIPS

Zelda top

Zelda on Basalt Kca

Zelda on Tsaa bracket

ZELDA

ZELDA 1 - S version

ZELDA 2 - X version

ZELDA 3 - X version

APPLICATIONS

- Mounting: top and side entry
- Zelda 1: Pedestrian areas, cycle paths, residential areas, street lighting
  Zelda 2 and 3: Roads, secondary urban and inter-urban streets
- Recommended heights: Zelda 1: 4 to 6 m / Zelda 2: 7 to 10 m / Zelda 3: 7 to 12 m

DESCRIPTION

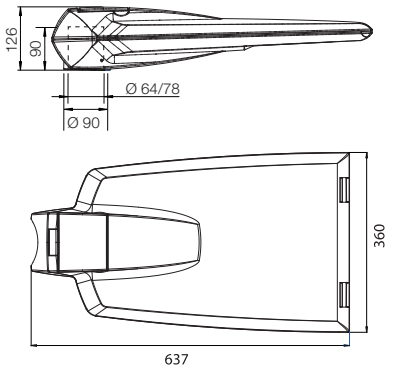
- Luminaire available in 3 sizes: Zelda 1, Zelda 2 and Zelda 3
- Zelda available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium
- Bottom and canopy X Version: with opening paddle; S version: screw closure
- Body, cover, sleeve and paddle (S version) in die-cast aluminium
- Bowl in thermally tempered and screen printed glass
- Polyester powder coating, any colour available
- IP66
- IK10
- Class I or II
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

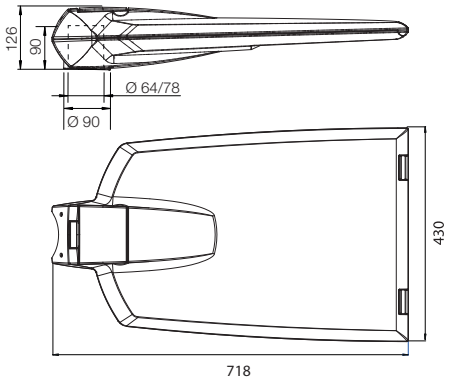
- Materials used:
  - ZELDA 1: Aluminium 69%, Glass 9%, Steel 5%, Plastic 1%, Other 16%
  - ZELDA 2: Aluminium 66%, Glass 11%, Steel 4%, Plastic 2%, Other 17%
  - ZELDA 3: Aluminium 67%, Glass 12%, Steel 2%, Plastic 1%, Other 18%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

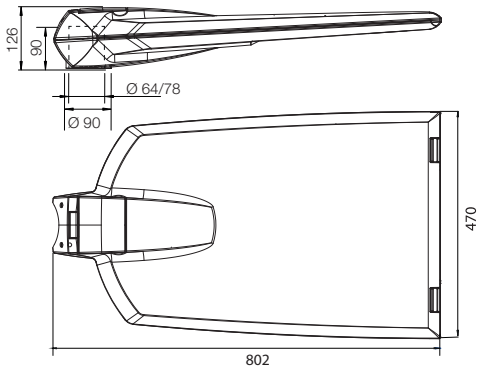
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone seal
- Cable gland
- Breathing system with activated carbon filter



ZELDA 1



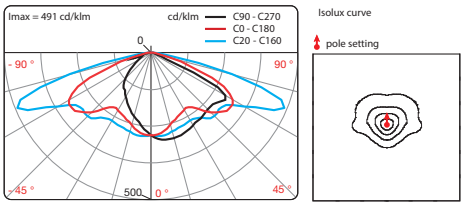
ZELDA 2



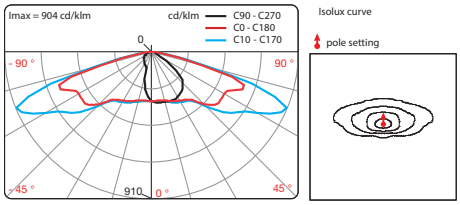
ZELDA 3

PHOTOMETRIC DISTRIBUTIONS

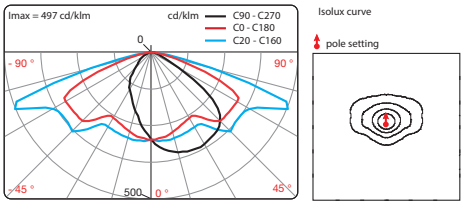
ZELDA - ERL



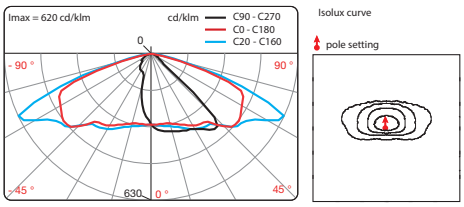
ZELDA - ERS



ZELDA - LRL



ZELDA - LRS

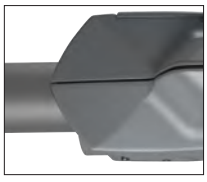


MECHANICAL INTERFACES

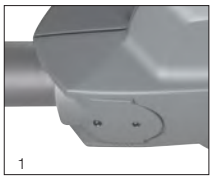
- Top rotating arm built into the luminaire
  - Top or Side Ø60mm, Ø 49 mm
  - Top Ø76mm

  Tilts
  - TOP: 0°; +5°; +10°;+15°; +20°
  - SIDE 0°; -5°; -10°;-15°; -20°
- Locking using 2 pressure screws {1}

Sleeve in Top position



Sleeve in Lateral position



MAINTENANCE (version X*)

Opening and closing

The upper part of the luminaire cover can be opened without tools using the flap {1}
Cutting of the power supply when the luminaire is opened by a dedicated ECLATEC connector {2}

Source maintenance

Replacement without tools onsite of the luminaire cover: equipment circuit board (attached with 3 screws) and LED sources {3}

*Version S: Opening of the cover after unscrewing 2 screws {4}

KEY POINTS

		ZELDA 1			ZELDA 2			ZELDA 3		
		1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★
Applications		Pedestrian areas, cycle paths, residential areas, street lighting			Roads, secondary urban and inter-urban streets					
Recommended heights		4 to 6 m			7 to 10 m			7 to 12 m		
Mounting		Top and side entry								
Dimensions	Length width height	637 mm 360 mm 126 mm			718 mm 430 mm 126 mm			802 mm 470 mm 126 mm		
Weight		7,5 kg			9,5 kg			13 kg		
Windage area		0,06 m²			0,08 m²			0,08 m²		
Sources		BLS strips								
Colour (•RAL to be chosen)		RAL 7035	•	•	RAL 7035	•	•	RAL 7035	•	•
Sources LED	Module LED	2BLS12	2BLS8 2BLS12	1BLS8 2BLS8	3BLS12 / 4BLS12 / 5BLS12			4BLS8 + 4BLS12 5BLS8 + 5BLS12 6BLS8 + 6BLS12		
	Very high Efficiency LED	•	•	•	•	•	•	•	•	•
	High Efficiency LED	-	-	-	-	-	-	-	-	-
Sources access		Device and sources opened and replaced without tools (X version)								
Colour temperature	3000 K	-	•	•	-	•	•	-	•	•
	4000 K	•	•	•	•	•	•	•	•	•
Optics and light distribution options(1)		ERS, ERL	ERS, ERL, ECa, LRS, LRL, EPD, EPG, ETS, PFA, ERE		ERS, ERL	ERS, ERL, ECa, ERE, LRS, LRL, PFA		ERS, ERL	ERS, ERL, ERE, ECa, LRS, LRL, PFA	
Power supply current (mA)		700	A: ANF* B: 700	100 to 700	700	A: ANF* B: 700	100 to 700	700 (80 LED) 650 (100 LED) 600 (120 LED)	A : ANF* B : 700 (80 LED) 650 (100 LED) 600 (120 LED)	100 à 700 (80 LED) 100 à 650 (100 LED) 100 à 600 (120 LED)
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○	-	-	○	-	-	○
	Dimming 5 (preset)	-	-	○	-	-	○	-	-	○
	Motion (setting on site)	-	-	○	-	-	-	-	-	-
	Motion 5 (preset)	-	-	○	-	-	-	-	-	-
	Motion COM (setting on site)	-	-	○	-	-	-	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○	-	-	○	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	○	-	-	-	-	-	-
	DALI (preset)	-	-	○	-	-	○	-	-	○
	FC (preset)	-	-	○	-	-	○	-	-	○
Driver protection	10 kv	-	-	•	-	-	•	-	-	•
	8 kv	-	•	-	•	•	-	•	•	-
	4 kv	•	-	-	-	-	-	-	-	-
Class	Class I	-	•	•	-	•	•	-	•	•
	Class II	•	•	•	•	•	•	•	•	•
Précâblage		-	○	○	-	○	○	-	○	○
Pre-wired	Top covering or penetrating Ø60/62 mm	•	•	•	•	•	•	•	•	•
	Top penetrating Ø76 mm	-	○	○	-	○	○	-	○	○

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time **(1)** Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

• Standard ○ Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

Zelda on Diamant bracket

STELIUM

Luminaire design: Eclatec

STELIUM comes from a long tradition of ECLATEC luminaires devoted to road lighting.

Polyvalent, equipped with a wide choice of variants and options, **STELIUM** has all the advantages that allow it to stand amongst the recognised stars of road lighting and town approaches.

Functional in its essence, **STELIUM** is also distinguished by its balanced lines and measured volumes and consequently fits well into urban perspectives without clashing, respecting, by its general shape, the usual landmarks of the inhabitants.

BLS STRIPS

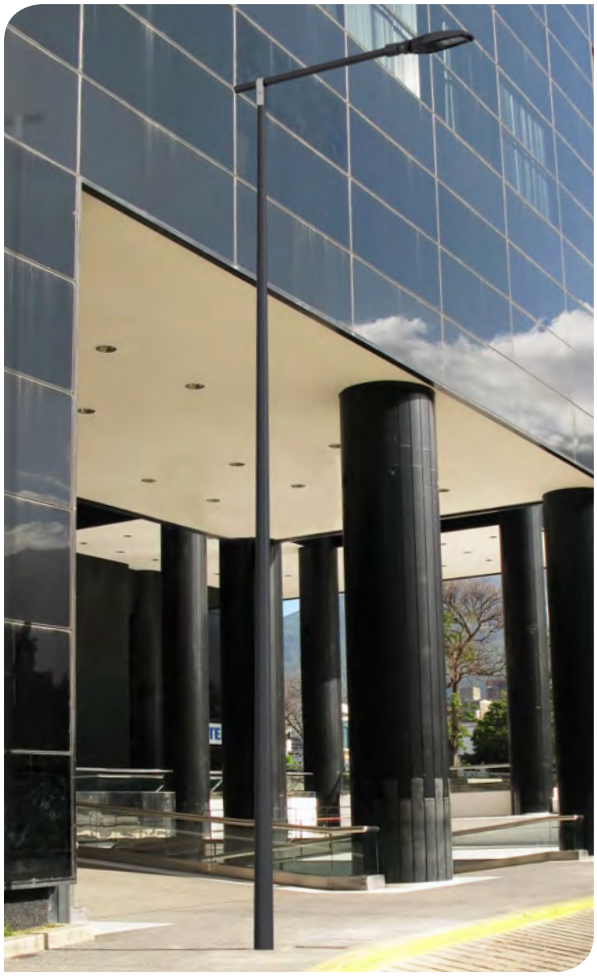
Stelium on bracket

Stelium on Para bracket

Stelium on Spéo bracket

STELIUM

RoHS | IP 66 | IK 10 | <1% 0°5° ULR | STELIUM 1 : 4-8 m STELIUM 2 : 6-10 m



STELIUM S1

STELIUM X2

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: Stelium 1: 4 to 8 m / Stelium 2: 6 to 10 m
- Stelium 1: Pedestrian areas, cycle paths, residential areas, street lighting
  Stelium 2: Roads, secondary urban and inter-urban streets

DESCRIPTION

- Luminaire available in 2 sizes: Stelium 1 and Stelium 2
- Stelium available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium
- Injection die-cast aluminium body
- Polyester powder coating, any colour available
- Version S: bi-material grey and transparent bowl in IK10 polycarbonate
- Version X: Articulated arch in injection-moulded aluminium and bowl in IK10 thermally tempered glass
- IP66
- Class I or II
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

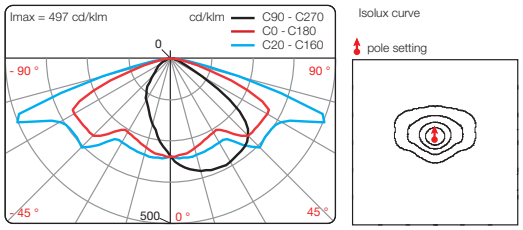
- Materials used:
  - Stelium S1: Aluminium 70%, Other 10%, Plastic 11%, Steel 9%
  - Stelium S2: Aluminium 64%, Other 15%, Plastic 13%, Steel 8%
  - Stelium X1: Aluminium 72%, Other 10%, Plastic 1 %, Steel 9%, Glass 8%
  - Stelium X2: Aluminium 68%, Other 13%, Plastic 1%, Steel 8%, Glass 10%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

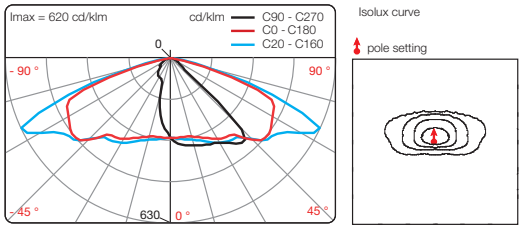
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone seal
- Cable gland
- Breathing system with activated carbon filter

PHOTOMETRIC DISTRIBUTIONS

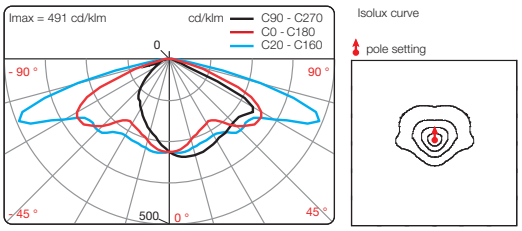
STELIUM - LRL



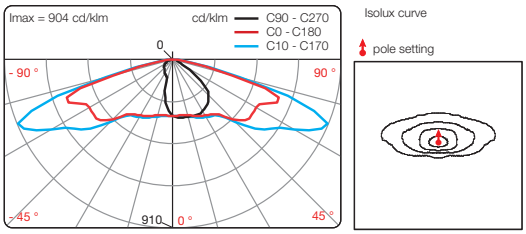
STELIUM - LRS

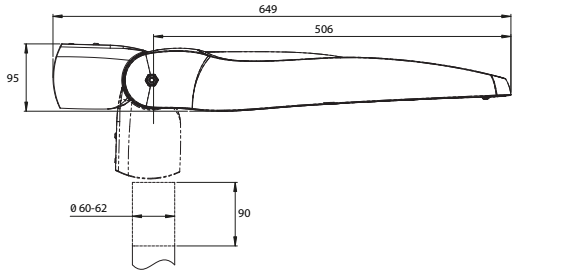


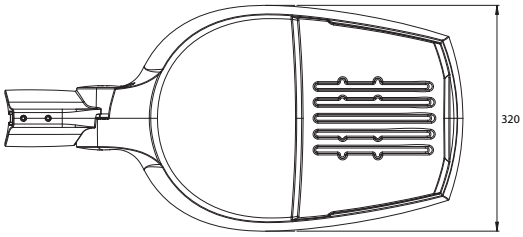
STELIUM - ERL

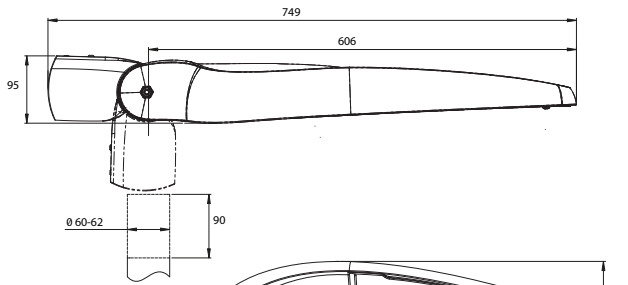


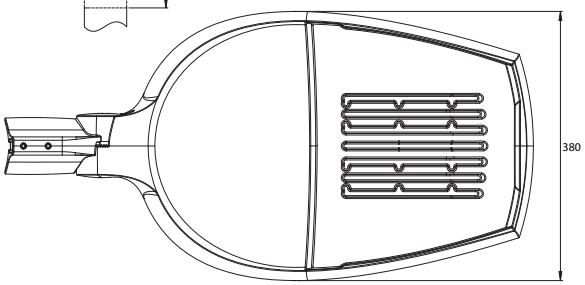
STELIUM - ERS





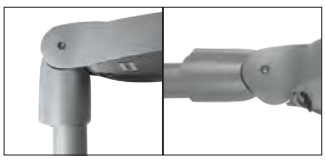




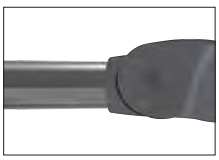


MECHANICAL INTERFACES

- Pivoting sleeves:
  - Top or Lateral wrapping Ø60mm, Ø 49 mm
  - Lateral Penetrating Ø60mm
  - Top wrapping Ø76mm



Top or Lateral wrapping Ø60mm



Lateral Penetrating Ø60mm

Top wrapping Ø76mm

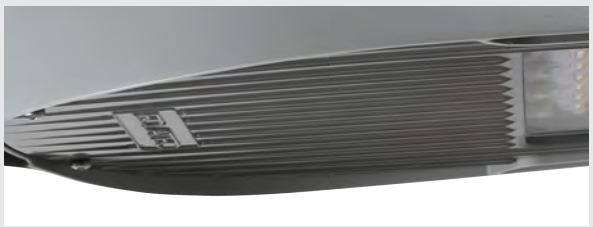
- Tilts:

- TOP: 0° ; +5° ; +10° ;+15° ; +20°
- LAT: 0° ; -5° ; -10° ;-15° ; -20°

MAINTENANCE

Maintenance of the equipment and sources
Stelium S1, S2

Direct access to the power supply and BLS strips after removal of the bowl. (4 trapped screws).
Removable circuit board (retention line)



Maintenance of the equipment and sources
Stelium X1, X2

Opening without tools of the arch. Direct access to the power supply and BLS strips.
Quick electrical disconnection without tools. Circuit board removable onsite without tools.

STELIUM

KEY POINTS

		STELIUM S1/X1			STELIUM S2/X2		
		1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★
Applications		4 to 8 m			6 to 10 m		
Recommended heights		Pedestrian areas, cycle paths, residential areas, street lighting			Roads, secondary urban and inter-urban streets		
Mounting		Top and side entry					
Dimensions	Length width height	649 mm 320 mm 95 mm			749 mm 380 mm 95 mm		
Weight		S1: 4,8 kg / X1: 5,8 kg			S2: 6,6 kg / X2: 7,8 kg		
Windage area		0,05 m²			0,06 m²		
Sources		RAL 7035	●	●	RAL 7035	●	●
Colour (●RAL to be chosen)		BLS strips					
Sources LED	Module LED	2BLS12 3BLS12	2BLS8 2BLS12 3BLS12	1BLS8 2BLS8 2BLS12 3BLS12	2BLS12 3BLS12 4BLS12		
	Very high Efficiency LED	●	●	●	●	●	●
	High Efficiency LED	-	-	-	-	-	-
Sources access		Version S: Direct access after removal of the bowl (trapped screws) Version X: Direct access by opening the arch without tools					
Colour temperature	3000 K	-	●	●	-	●	●
	4000 K	●	●	●	●	●	●
Optics and light distribution options(1)		ERS, ERL	ERS, ERE, ECa, LRS, LRL, LRS, ETS, PFA, EPD, EPG		ERS, ERL	ERS, ERE, ECa, ERS, LRL, LRS, PFA	
Power supply current (mA)		700	A: ANF* B: 700	100 à 700	700	A: ANF* B: 700	100 à 700
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○	-	-	○
	Dimming 5 (preset)	-	-	○	-	-	○
	Motion (setting on site)	-	-	-	-	-	-
	Motion 5 (preset)	-	-	-	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	-	-	-	-
	DALI (preset)	-	-	○	-	-	○
	FC (preset)	-	-	○	-	-	○
Protection Driver	10 kv	-	-	●	-	-	●
	8 kv	●	●	-	●	●	-
	4 kv	-	-	-	-	-	-
Class	Class I	-	●	●	-	●	●
	Class II	●	●	●	●	●	●
Pre-wired		-	○	○	-	○	○
Mechanical interfaces	Top or lateral Ø60/62 mm	●	●	●	●	●	●
	Top wrapping Ø76 mm	-	●	●	-	●	●

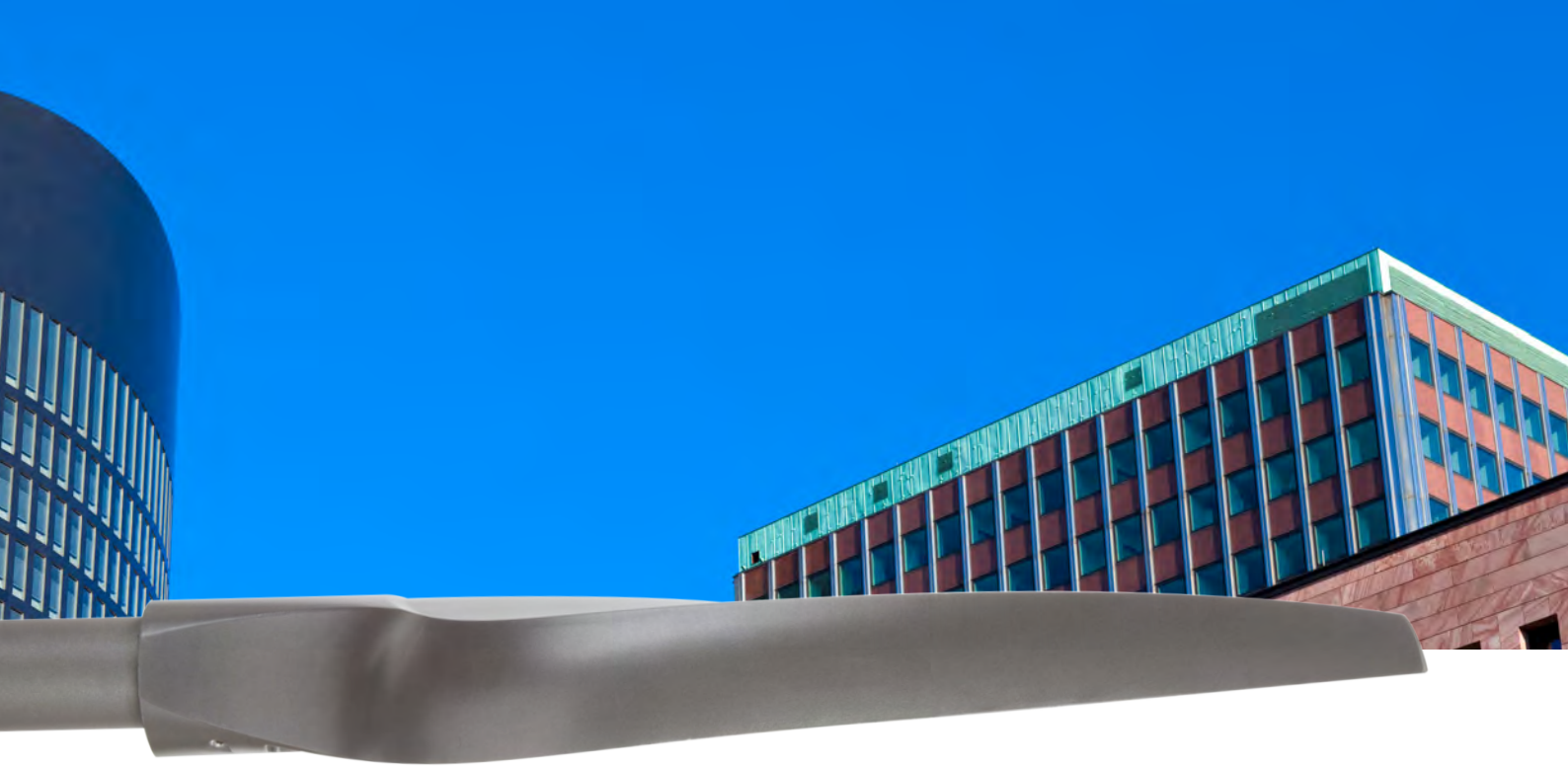
* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time **(1)** Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

● Standard ○ Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

Stelium on Delphi bracket



GAMME TWEET

Luminaire design: Eclatec

When maturity gives birth to **TWEET**…

The **TWEET** range makes the most of LED technology for efficient and optimised solutions; the purity of its lines testifies that sometimes simplicity rhymes with elegance.

Three sizes of luminaire, associated with increasing flux, are offered; the smallest size exists in top and lateral versions (two castings), whereas the following models are only available in the lateral version; a choice of tips, allowing top attachment, and cross-arms completes the range.

BLS STRIPS

Tweet «Origin» on Tonga bracket

Tweet «Origin» on Tonga bracket

Tweet «Origin» on Kca bracket

ECLATEC

TWEET «ORIGIN»

TWEET S1 «ORIGIN»: top and side entry version

TWEET X2 «ORIGIN»

TWEET X3 «ORIGIN»

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: Tweet 1: 4 to 6 m / Tweet 2: 6 to 8 m / Tweet 3: 7 to 10 m
- Tweet «Origin» 1: Pedestrian areas, cycle paths, residential areas, street lighting
  Tweet «Origin» 2 and 3: Roads, secondary urban and inter-urban streets

DESCRIPTION

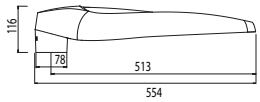
- Luminaire available in 3 sizes: Tweet «Origin» 1, Tweet «Origin» 2 and Tweet «Origin» 3
- Tweet «Origin» available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium
- Injection die-cast aluminium body
- Tweet S «Origin»: Silkscreen printed, polycarbonate bowl, IK10
- Tweet X «Origin»: Injection die-cast aluminium articuled bottom plate and thermally toughened flat glass IK08
- IP66
- Class I or II
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

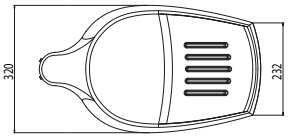
CITIZEN REFERENCE POINTS

- Materials used:
  - Tweet S1 «Origin»: Aluminium 56%, Other 20%, Plastic 18%, Steel 6%
  - Tweet S2 «Origin»: Aluminium 59%, Other 17%, Plastic 17%, Steel 7%
  - Tweet S3 «Origin»: Aluminium 60%, Other 17%, Plastic 18%, Steel 5%
  - Tweet X1 «Origin»: Aluminium 57%, Other 30%, Glass 7%, Steel 5%, Plastic 1%
  - Tweet X2 «Origin»: Aluminium 58%, Other 29%, Glass 6%, Steel 5%, Plastic 2%
  - Tweet X3 «Origin»: Aluminium 55%, Other 30%, Glass 9%, Steel 4%, Plastic 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

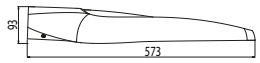
WATERPROOFING

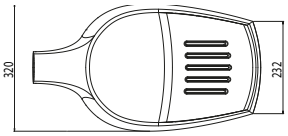
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter



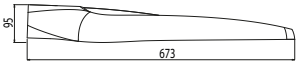


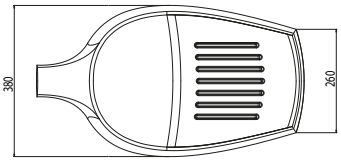
Tweet «Origin» S1/X1 Top



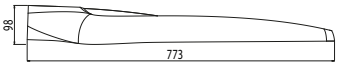


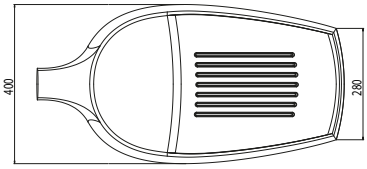
Tweet «Origin» S1/X1
Side entry





Tweet «Origin» S2/X2

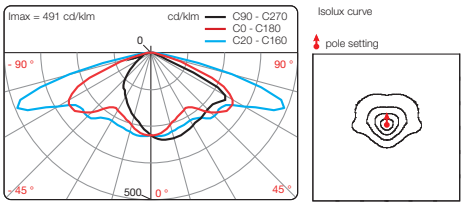




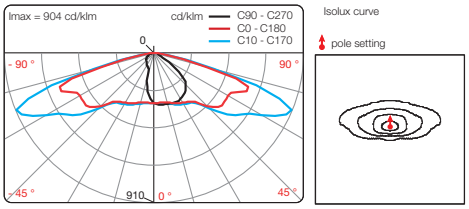
Tweet «Origin» S3/X3

PHOTOMETRIC DISTRIBUTIONS

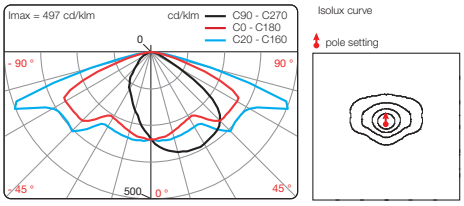
TWEET - ERL



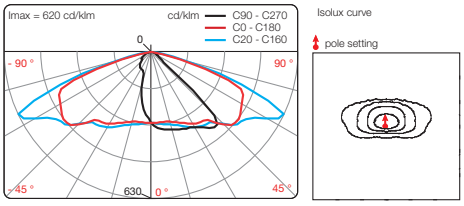
TWEET - ERS



TWEET - LRL

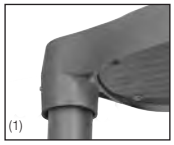


TWEET - LRS



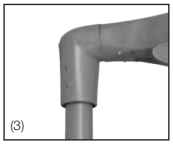
MECHANICAL INTERFACES

- TWEET «Origin» S1/X1 Top: post top for pole Ø 60/Ø 62mm x 70mm and pole Ø 76mm x 90mm (1)
- TWEET «Origin» S1/X1, S2/X2, S3/X3 side entry: side female sleeve for Ø 60/Ø 62mm x 100mm (2), Ø 42 mm and Ø 49 mm (fastener kit available as an option)
- TWEET «Origin» S2/X2, S3/X3 post top bracket tilt 5°: female fastening for pole Ø 60 - 62 mm x Ø 100mm (3), Ø 42mm and Ø 49mm
  For pole Ø 76mm top, optional spigot A (see page 246)
- Neck pillar bracket tilt 5°: male fastening for pole Ø 60 - 62mm x 320mm (4) (see page 246 - D)
- Luminaire tilted at 2°
- Wall-mounted bracket
- Pathway bracket with fastening plate



Post top

Side entry



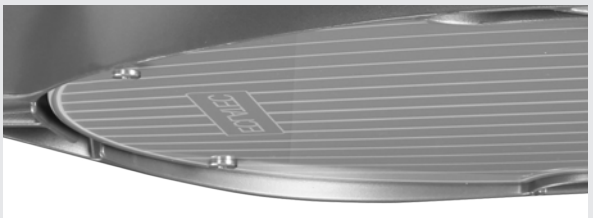
Post top bracket

Neck pillar bracket

MAINTENANCE

Maintenance of the equipment and sources
Tweet «Origin» S1, S2, S3

Direct access to the power supply and BLS strips after removal of the bowl. (6 or 8 trapped screws)
Removable circuit board (retention line)



Maintenance of the equipment and sources
Tweet «Origin» X1, X2, X3

Opening without tools articuled bottom plate. Direct access to the power supply and BLS strips. Quick electrical disconnection without tools. Circuit board removable onsite without tools.

TWEET «ORIGIN»

KEY POINTS

		TWEET S1/X1 «ORIGIN»			TWEET S2/X2 «ORIGIN»			TWEET S3/X3 «ORIGIN»		
		1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★
Applications		Pedestrian areas, cycle paths, residential areas, street lighting			Roads, secondary urban and inter-urban streets					
Recommended heights		4 to 6 m			6 to 8 m			7 to 10 m		
Mounting		Top and side entry			side entry					
Dimensions	Length width height	554 mm / 573 mm 320 mm 116 mm / 93 mm			673 mm 380 mm 95 mm			773 mm 400 mm 98 mm		
Weight		4,5 kg			6,6 kg			8,5 kg		
Windage area		0,05 m²			0,06 m²			0,07 m²		
Sources		RAL 7035	●	●	RAL 7035	●	●	RAL 7035	●	●
Colour (●RAL to be chosen)		BLS strips								
Sources LED	Module LED	3BLS8	2BLS8 3BLS8	1BLS8 2BLS8 3BLS8	2BLS12 3BLS12			4BLS12 5BLS12		
	Very high Efficiency LED	●	●	●	●	●	●	●	●	●
	High Efficiency LED	-	-	-	-	-	-	-	-	-
Sources access		Direct access to the BLS LED strips by removing articuled bottom plate (version X). Cutting of the power supply when the luminaire is opened.								
Colour temperature	3000 K	-	●	●	-	●	●	-	●	●
	4000 K	●	●	●	●	●	●	●	●	●
Optics and light distribution options(1)		ERS, ERL	ERS, ERL, ECa, ERE, LRS, LRL, EPD, EPG, ETS, PFA		ERS, ERL	ERS, ERL, ECa, ERE, LRS, LRL, PFA		ERS, ERL	ERS, ERL, ECa, ERE, LRS, LRL, PFA	
Power supply current (mA)		700 mA	A: ANF* B: 700 mA	100 to 700 mA	700 mA	A: ANF* B: 700 mA	100 to 700 mA	700 mA	A: ANF* B: 700 mA	100 to 700 mA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○	-	-	○	-	-	○
	Dimming 5 (preset)	-	-	○	-	-	○	-	-	○
	Motion (setting on site)	-	-	-	-	-	-	-	-	-
	Motion 5 (preset)	-	-	-	-	-	-	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○	-	-	○	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	-	-	-	-	-	-	-
	DALI (preset)	-	-	○	-	-	○	-	-	○
	FC (preset)	-	-	○	-	-	○	-	-	○
Protection Driver	10 kv	-	-	●	-	-	●	-	-	●
	8 kv	-	●	-	●	●	-	●	●	-
	4 kv	●	-	-	-	-	-	-	-	-
Class	Class I	-	●	●	-	●	●	-	●	●
	Class II	●	●	●	●	●	●	●	●	●
Pre-wired		-	○	○	-	○	○	-	○	○
Mechanical interfaces	Side entry Ø60/62 mm	●	●	●	●	●	●	●	●	●
	Top cover Ø60/62 mm	○ (accessory)	●	●	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)
	Top cover Ø76 mm	○ (accessory)	●	●	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)	○ (accessory)

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time **(1)** Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

● Standard ○ Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**r**r**o**w**/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

TWEET «NÉO»

TWEET S1 «NÉO»

TWEET X2 «NÉO»

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: Tweet «Néo» 1: 4 to 8 m / Tweet «Néo» 2: 6 to 10 m
- Tweet «Néo» 1: Pedestrian areas, cycle paths, residential areas, street lighting
  Tweet «Néo» 2: Roads, secondary urban and inter-urban streets

DESCRIPTION

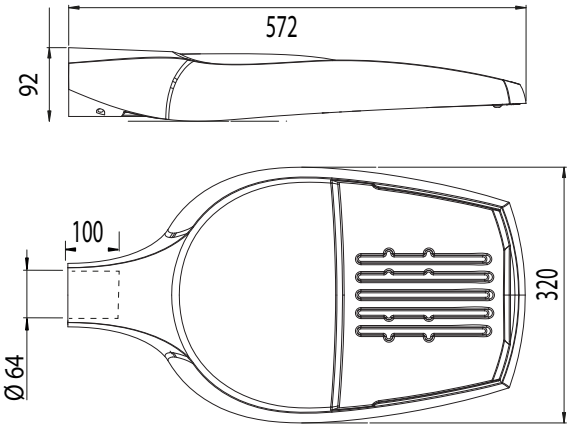
- Luminaire available in 3 sizes: TWEET «Néo» 1, Tweet «Origin» 2 and Tweet «Origin» 3
- TWEET «Néo» available in 3 levels:
  - 1E: Unique version for standard use
  - 2EA: Fixed settings for night dimming
  - 2EB: Fixed current setting at 700mA, without options
  - 3E: Most efficient and customizable version Injected die cast aluminium
- Injection die-cast aluminium body
- Tweet S «Neo»: Silkscreen printed, polycarbonate bowl, IK10
- Tweet X «Neo»: Injection die-cast aluminium articuled bottom plate and thermally toughened flat glass IK10
- IP66
- Class I or II
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

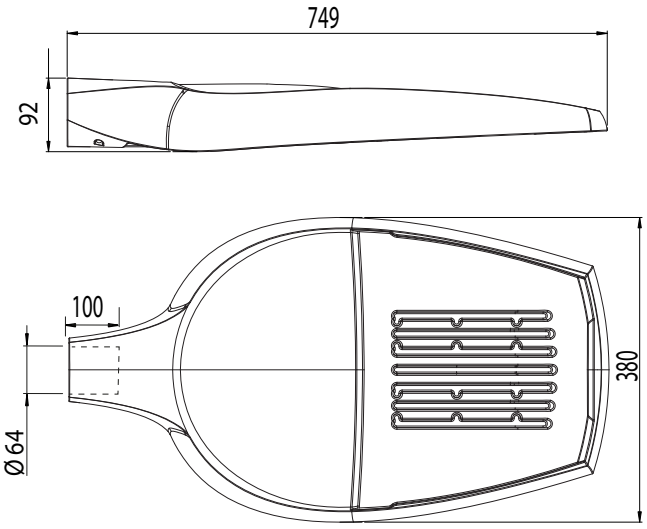
- Materials used:
  - Tweet «Néo» S1: Aluminium 70%, Other 10%, Plastic 11%, Steel 9%
  - Tweet «Néo» S2: Aluminium 64%, Other 15%, Plastic 13%, Steel 8%
  - Tweet «Néo» X1: Aluminium 72%, Other 10%, Plastic 1 %, Steel 9%, Glass 8%
  - Tweet «Néo» X2: Aluminium 68%, Other 13%, Plastic 1%, Steel 8%, Glass 10%
- Complies with the RoHS directive
- ULR < 1%

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter



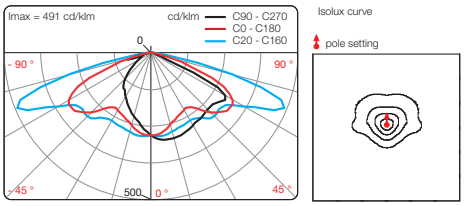
Tweet «Néo» S1/X1 Side entry



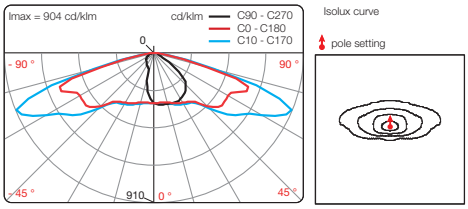
Tweet «Néo» S2/X2 Side entry

PHOTOMETRIC DISTRIBUTIONS

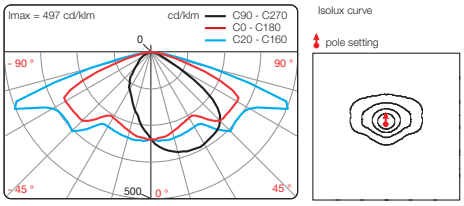
TWEET - ERL



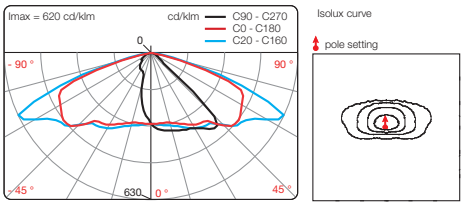
TWEET - ERS



TWEET - LRL

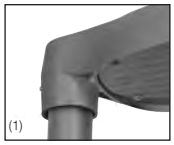


TWEET - LRS



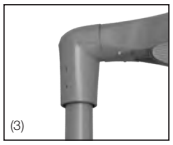
MECHANICAL INTERFACES

- TWEET «Néo» S1/X1 Top: post top for pole Ø 60/Ø 62mm x 70mm and pole Ø 76mm x 90mm (1)
- TWEET «Néo» S1/X1, S2/X2, S3/X3 side entry: side female sleeve for Ø 60/Ø 62mm x 100mm (2) (fastener kit available as an option)
- TWEET «Néo» S2/X2, S3/X3 post top bracket tilt 5°: female fastening for pole Ø 60 - 62 mm x Ø 100mm (3), Ø 42mm and Ø 49mm
  For pole Ø 76mm top, optional spigot A (see page 246)
- Neck pillar bracket tilt 5°: male fastening for pole Ø 60 - 62mm x 320mm (4) (see page 246 - D)
- Luminaire tilted at 2°



Post top

Side entry



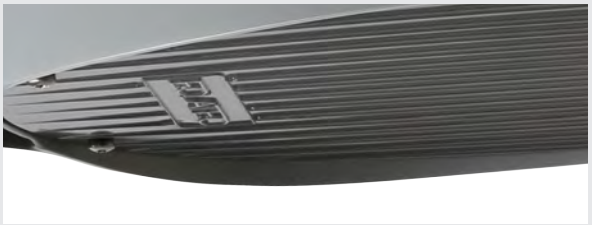
Post top bracket

Neck pillar bracket

MAINTENANCE

Maintenance of the equipment and sources
Tweet «Néo» S1, S2

Direct access to the power supply and BLS strips after removal of the bowl. (4 trapped screws).
Removable circuit board (retention line)



Maintenance of the equipment and sources
Tweet «Néo» X1, X2

Opening without tools of the arch. Direct access to the power supply and BLS strips.
Quick electrical disconnection without tools. Circuit board removable onsite without tools.

TWEET «NÉO»

KEY POINTS

		TWEET S1/X1 «NÉO»			TWEET S2/X2 «NÉO»		
		1E ★	2E A/B ★★	3E ★★★	1E ★	2E A/B ★★	3E ★★★
Applications		Pedestrian areas, cycle paths, residential areas, street lighting			Roads, secondary urban and inter-urban streets		
Recommended heights		4 to 8 m			6 to 10 m		
Mounting		Top and side entry					
Dimensions	Length width height	572 mm 320 mm 92 mm			749 mm 380 mm 92 mm		
Weight		S1: 4,8 kg / X1: 5,8 kg			S2: 6,6 kg / X2: 7,8 kg		
Windage area		0,05 m²			0,06 m²		
Sources		RAL 7035	●	●	RAL 7035	●	●
Colour (●RAL to be chosen)		BLS strips					
Sources LED	Module LED	2BLS12 3BLS12	2BLS8 2BLS12 3BLS12	1BLS8 2BLS8 2BLS12 3BLS12	2BLS12 3BLS12 4BLS12		
	Very high Efficiency LED	●	●	●	●	●	●
	High Efficiency LED	-	-	-	-	-	-
Sources access		Version S: Direct access after removal of the bowl (trapped screws) Version X: Direct access by opening the arch without tools					
Colour temperature	3000 K	-	●	●	-	●	●
	4000 K	●	●	●	●	●	●
Optics and light distribution options(1)		ERS, ERL	ERS, ERE, ECa, LRS, LRL, LRS, ETS, PFA, EPD, EPG		ERS, ERL	ERS, ERE, ECa, ERL, LRL, LRS, PFA	
Power supply current (mA)		700	A: ANF* B: 700	100 to 700	700	A: ANF* B: 700	100 to 700
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	-	-	○	-	-	○
	Dimming 5 (preset)	-	-	○	-	-	○
	Motion (setting on site)	-	-	-	-	-	-
	Motion 5 (preset)	-	-	-	-	-	-
	Motion P (set in the bottom of the pole)	-	-	○	-	-	○
	Motion DALI (set in the bottom of the pole)	-	-	-	-	-	-
	DALI (preset)	-	-	○	-	-	○
	FC (preset)	-	-	○	-	-	○
Protection Driver	10 kv	-	-	●	-	-	●
	8 kv	●	●	-	●	●	-
	4 kv	-	-	-	-	-	-
Class	Class I	-	●	●	-	●	●
	Class II	●	●	●	●	●	●
Pre-wired		-	○	○	-	○	○
Mechanical interfaces	Top Ø60/62 mm	○ (accessory)	●	●	○ (accessory)	○ (accessory)	○ (accessory)
	Side entry Ø60/62 mm	●	●	●	●	●	●

* ANF: Unique program for driver, Fixed Night Dimming: 23h – 5h at 350mA and 700mA for the remaining time **(1)** Rearward light spill cover optional except for EPD, EPG and level 1 of the luminaires concerned

Glossary:

● Standard ○ Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **Ro**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**arrow**/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

ENZA

Luminaire design: Marc Aurel

"The town of today, by virtue of the sophistication of its public spaces, seems like an extension of our domestic space; the quality of its materials, surface finishes, lighting…
The design of a new luminaire can only fit into this qualitative logic. Imagine an object with a smooth and compact appearance giving way to the evidence of a route.

Continuity of form, discontinuity of materials for a luminaire that is the close image of our domestic universe.
Sophisticated materials and surface treatments give the lamp a strong presence by day or night. Cohesion between the technical and formal design lead to the birth of an object meeting the expectations for quality and performance of today's town".

Marc Aurel

BLS STRIPS

Enza on Etia bracket

Enza on Donna bracket

Enza on Donna bracket

ENZA

Luminaire design: Marc AUREL

RoHS | IP 66 | IK 10 | ≤1% 0°5° ULR | ENZA 25 : 4-10 m

ENZA

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 4 to 10 m
- Urban streets, pedestrians, residential, cycle paths, roads, secondary urban and inter-urban streets

DESCRIPTION

- Injection die-cast aluminium body
- Bowl in moulded clear polycarbonate
- Polyester powder coating, any colour available
- IP66
- IK10
- Class I or II
- **ORALENS** mono lense
- Colour temperature: 4000 K and 3000K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

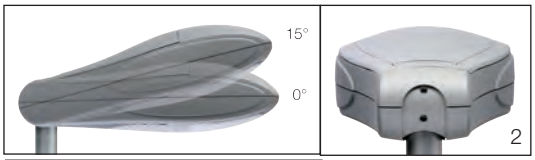
- Materials used: Aluminium 77%, Other 3%, Glass 8%, Steel 1%, Plastic 11%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

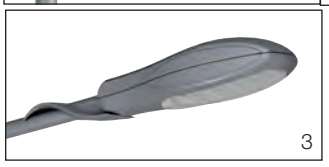
WATERPROOFING

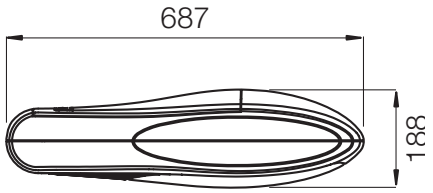
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic high temperature silicone gasket on the upper and lower parts
- Cable gland with anchoring device
- Breathing system with activated carbon filter

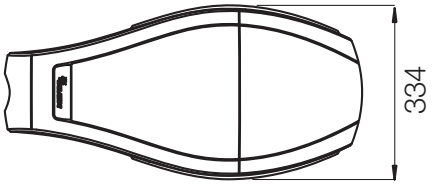
MECHANICAL INTERFACES

- The Easylink® fastening system is an Eclatec innovation
  It allows quick, easy installation and precise adjustment of the tilt angle thanks to its two sets of angle markings with a scale graduated in 5° steps
- Luminaire lateral mounted on bracket Ø 60mm
  Tilts 0°, -5°, -10°, -15° and -20° {1}
- Luminaire post top mounted on pole Ø 60mm
  For pole Ø 76mm top, optional spigot A (see page 246)
  Tilts 0°, 5°, 10° and 15° {2}
- Decorative trim for Enza {3}



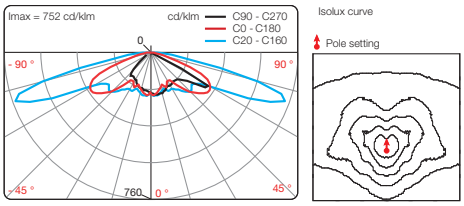




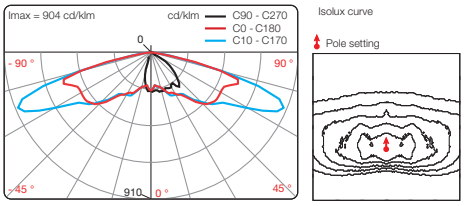


PHOTOMETRIC DISTRIBUTIONS

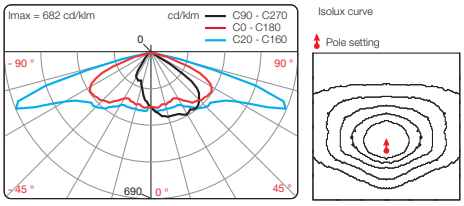
ENZA - ERL



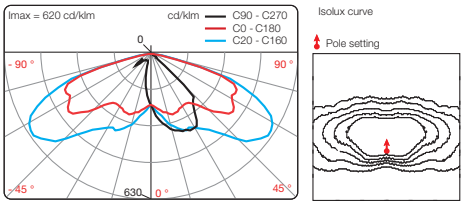
ENZA - ERS



ENZA - LRL



ENZA - LRS



KEY POINTS

		ENZA 25
Applications		Urban streets, pedestrians, residential, cycle paths, roads, secondary urban and inter-urban streets
Recommended heights		4 to 10 m
Mounting		Top and side entry
Dimensions	**Length** **width** **height**	687 mm 334 mm 188 mm
Weight		13 kg
Windage area		0.04 m²
Sources		BLS strips
Sources access		Opens without tools by pressing the push-strip on the top casting: direct access to the gear Direct access to the BLS LED strips by removing the bowl
Optics and light distribution options		LRS, ERS, ERL, ERE, LRL, PFA, Eca
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version or DALI

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opens without tools by pressing the paddle on the top cover {1}

Lighting equipment maintenance

Quick electrical disconnection without tools. Replacement of the equipment by substitution of the box. {2}

Source maintenance

Access to LED strips and lenses after removal of the bowl attached with 3 screws

1

2

MOANA

Luminaire design: Eclatec

MOANA succeeds in bringing opposites together; the wise fluidity of its lines tempers the force of its intentions; its spirit expresses itself with restraint and an elegant sobriety houses an assertive character.

This fortunate balance opens up the field of contexts for **MOANA**, from functional use to decorative applications, particularly in association with pins and cross-arms in cast aluminium.

TABLED 2 MODULE

Moana on Musa braket

Moana on Lizea bracket

MOANA

MOANA

Shown with Reva bracket

APPLICATIONS

- Mounting: si entry and top with bracket
- Recommended heights: 4 to 10 m
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas

DESCRIPTION

- Injection die-cast aluminium body
- Control gear integrated on a removable tray, disconnectable without tools
- Polyester powder coating, any colour available
- IP66
- IK07
- Class I or II
- **TABLED 2** module with mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

RETROFIT

- The **TABLED 2** module can be used to equip Moana luminaires that were initially equipped with discharge lamps.

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 85%, Plastic 6%, Other 5%, Steel 4%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

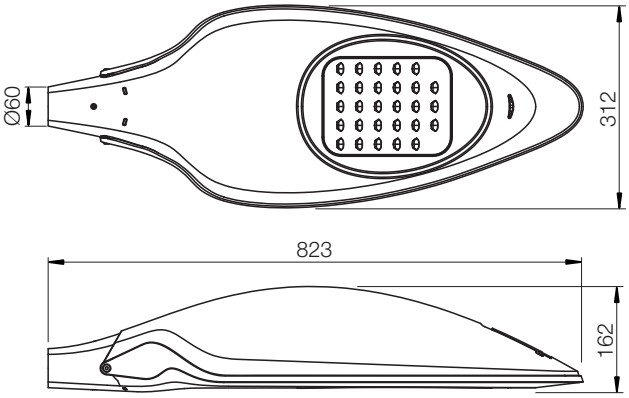
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- **D48:** side female for exterior Ø 48mm bracket
- **LL54:** side male mounting for Ø 60mm steel bracket (see page 246 - F)
- **LL48:** side male mounting for Ø 60mm aluminium bracket (see page 246 - E)
- Top or bitop fixation, Reva male top fastening for pole Ø 60/62mm (see page 246 - D)

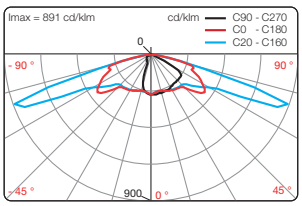
Lateral penetrating for steel cross-arm

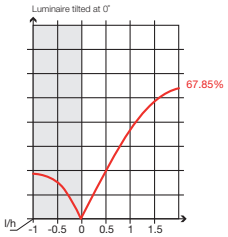
Lateral penetrating for aluminium cross-arm



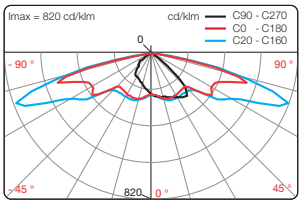
PHOTOMETRIC DISTRIBUTIONS

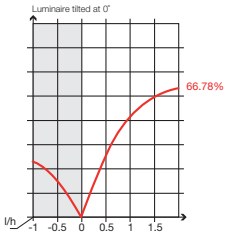
TABLED 2 . ERL



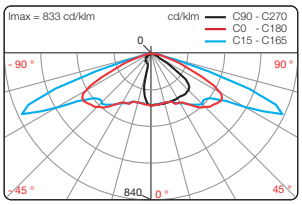


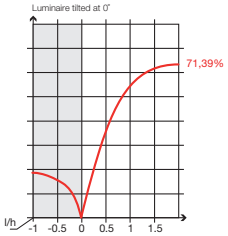
TABLED 2 - ERS





TABLED 2 - LRM





KEY POINTS

		MOANA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas
Recommended heights		4 to 10 m
Mounting		Side entry and top with bracket
Dimensions	**Length** **width** **height**	823 mm 312 mm 162 mm
Weight		11,6 kg
Windage area		0,07 m²
Source		TABLED 2
Sources access		Luminaire opens without tools Removable **TABLED 2** module
Optics and light distribution options		ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Ergonomic opening handle, easily accessible and manoeuvrable at the front of the luminaire {1}

The upper cover is held in the open position by a safety prop {2}

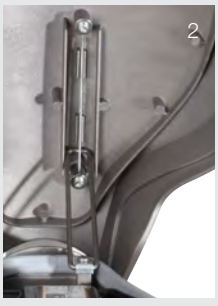
Cutting of the power supply when the luminaire is opened

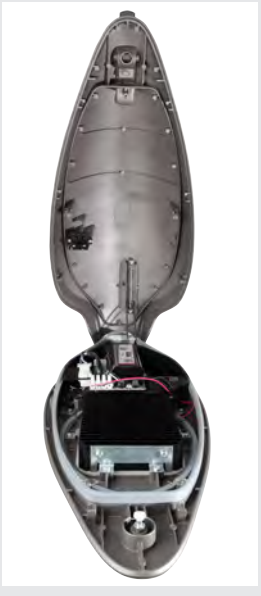
TABLED 2 Maintenance

Direct access to the equipment and the TABLE**D 2 modu**le once the cover is opened

Integrated equipment on circuit board that can be removed and disconnected without tools

Electrical connection by quick connectors





CLIP evolution

Luminaire design: Marc Aurel

CLIP remains a known precursor in the world of lighting.

Its fundamental qualities, an aesthetic that is assertive, contemporary and elegant at the same time make it an essential reference.
Always ready to face the challenges of functional lighting, **CLIP** also knows how to dress up the town, in a more urban role, associated with CLIPTOWN and CLIPART cross-arms.

TABLED 2 MODULE

Its audacious design, an accomplished mixture of rupture and continuity, allowed ECLATEC to receive the industry Janus Award.

Clip on Tonga bracket

Clip on Cytise bracket

Clip on Chantereine bracket

LED LUMINAIRES

CLIP ÉVOLUTION

Luminaire design: Marc AUREL

RoHS | IP 66 | IK 07 | ≤1% 0°5° ULR | CLIP LED : 4-10 m

CLIP évolution

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 4 to 10 m
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas

DESCRIPTION

- Luminaire available in 2 sizes: Clip 28 and Clip 34
- Injection die-cast aluminium body
- Polyester powder coating, any colour available
- IP66
- IK07
- Luminaire opens without tools
- Class I or II
- **TABLED 2** module with mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

RETROFIT

- The **TABLED 2** module can be used to equip Clip luminaires that were initially equipped with discharge lamps.

CITIZEN REFERENCE POINTS

- Materials used:
  - Clip 28: Aluminium 86%, Steel 7%, Other 4%, Plastic 3%
  - Clip 34: Aluminium 87%, Steel 6%, Other 4%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

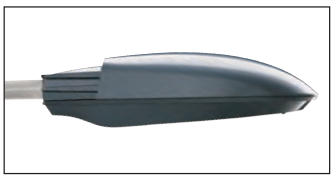
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

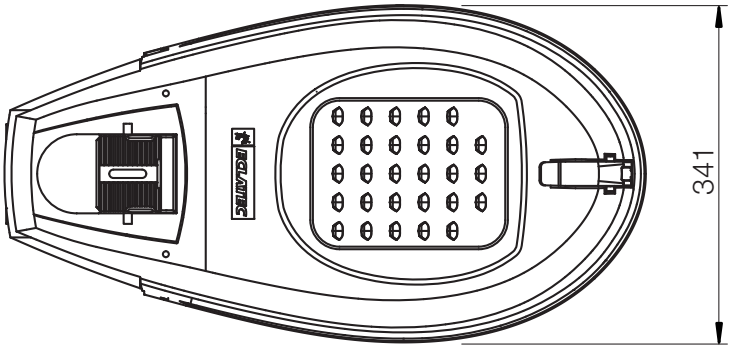
MECHANICAL INTERFACES

- Luminaire post top mounted on pole Ø 60mm and 76mm
  Luminaire tilted from 0 to 15° by 5° steps
- Luminaire lateral mounted on bracket Ø 42, 49 and 60mm

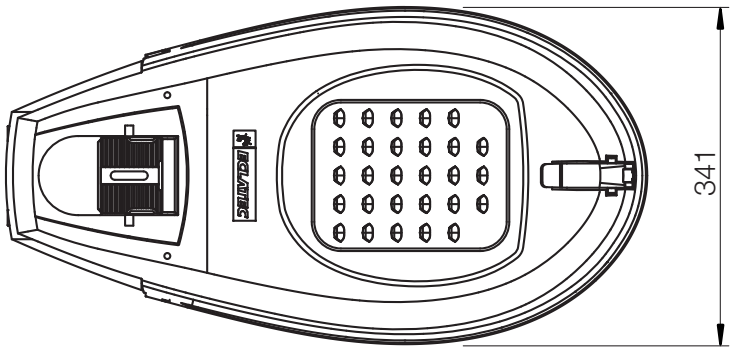
Post top fixation



Side entry fixation



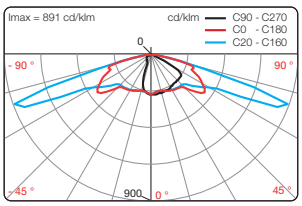
Clip 28

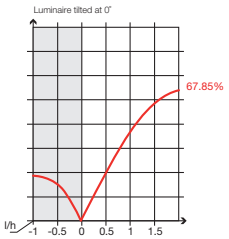


Clip 34

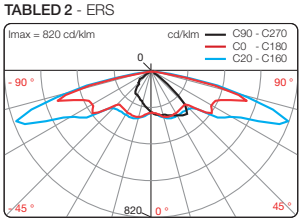
PHOTOMETRIC DISTRIBUTIONS

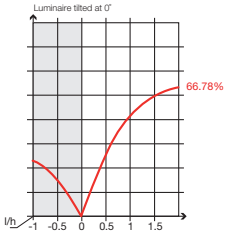
TABLED 2 - ERL



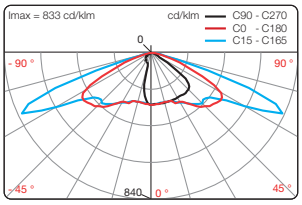


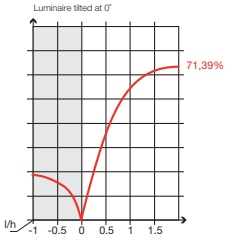
TABLED 2 - ERS





TABLED 2 - LRM





KEY POINTS

		CLIP 28	CLIP 34
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas	
Recommended heights		4 to 10 m	
Mounting		Top and side entry	
Dimensions	**Length** **width** **height**	650 mm 341 mm 185 mm	803 mm 381 mm 211 mm
Weight		7,4 kg	14 kg
Windage area		0,05 m²	0,07 m²
Source		TABLED 2	
Sources access		Luminaire opens without tools Removable **TABLED 2** module	
Optics and light distribution options		ERS, ERL, LRM	
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o*	
	Dimming 5 (preset)	o	
	Motion (setting on site)	-	
	Motion P (set in the bottom of the pole)	o*	
	Motion DALI (set in the bottom of the pole)	-	
	Motion 5 (preset)	-	
	DALI (preset)	o*	
	FC (preset)	Compatible with standard version, Dimming 5 and DALI* option	

* Only for Class II luminaire and prewired iin the factory

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

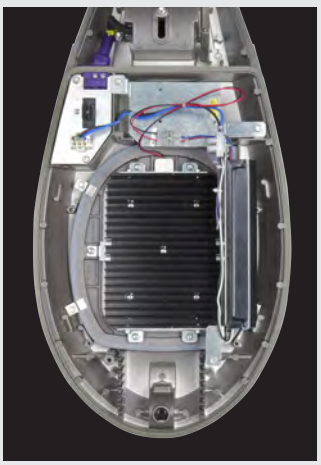
MAINTENANCE

Opening and closing

Ergonomic opening handle, easily accessible and manoeuvrable at the front of the luminaire {1}
The upper cover is held in the open position by a safety prop {2}
Cutting of the power supply when the luminaire is opened

TABLED 2 maintenance

Direct access to the equipment and the **TABLED 2** module once the cover is opened



MURENA

Luminaire design: Eclatec

Exceeding function, the lines of **MURENA** target discrete elegance.

Inspired by Italian design, its silhouette gives it a resolutely modern dynamism.

MURENA remains no less efficient, with its easy mounting and the ease of access to its components.

TABLED 2 MODULE

Murena Top

Murena on KCA bracket

Murena on curved pole

MURENA

MURENA

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 4 to 10 m
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas

DESCRIPTION

- Injection die-cast aluminium body
- Luminaire opens without tools
- Polyester powder coating, any colour available
- IP66
- IK07
- Class I or II
- **TABLED 2** module with mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

RETROFIT

- The **TABLED 2** module can be used to equip Murena luminaires that were initially equipped with discharge lamps.

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 85%, Other 7%, Plastic 5%, Steel 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

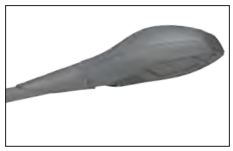
MECHANICAL INTERFACES

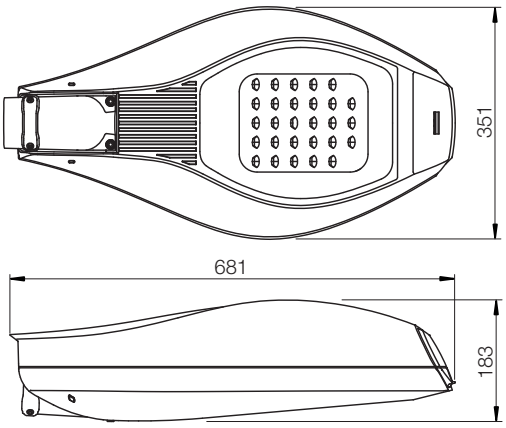
- Luminaire post top mounted on pole Ø 60/62 mm
  For pole Ø 76 mm top, optional spigot A (see page 246)
  Tilts 0° and 10°
- Luminaire lateral mounted on bracket Ø 60 mm
  Tilts 0°, -5° and -15°

  Moving from the side entry to the post top version by a convertible sleeve (2 screws fixation)
- Decorative trim for Murena

Top Fixation

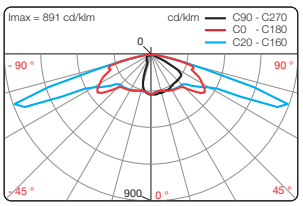
Side entry fixation
Bracket tilt at 15°

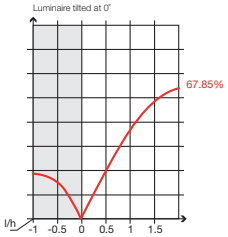

Decorative trim



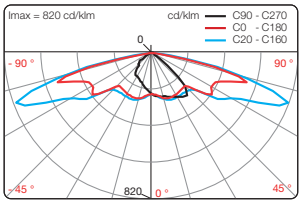
PHOTOMETRIC DISTRIBUTIONS

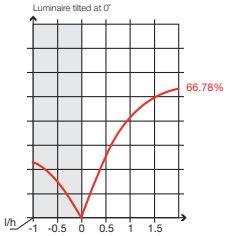
TABLED 2 . ERL



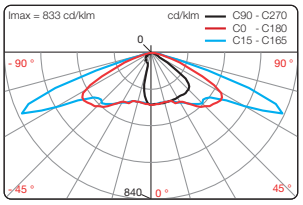


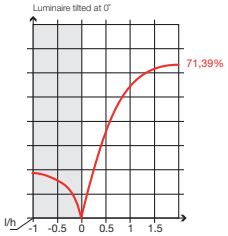
TABLED 2 - ERS





TABLED 2 - LRM





KEY POINTS

		MURENA
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas
Recommended heights		4 to 10 m
Mounting		Top and side entry
Dimensions	**Length** **width** **height**	681 mm 351 mm 183 mm
Weight		11,5 kg
Windage area		0,075 m²
Source		TABLED 2
Sources access		Luminaire opens without tools Removable **TABLED 2** module
Optics and light distribution options		ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

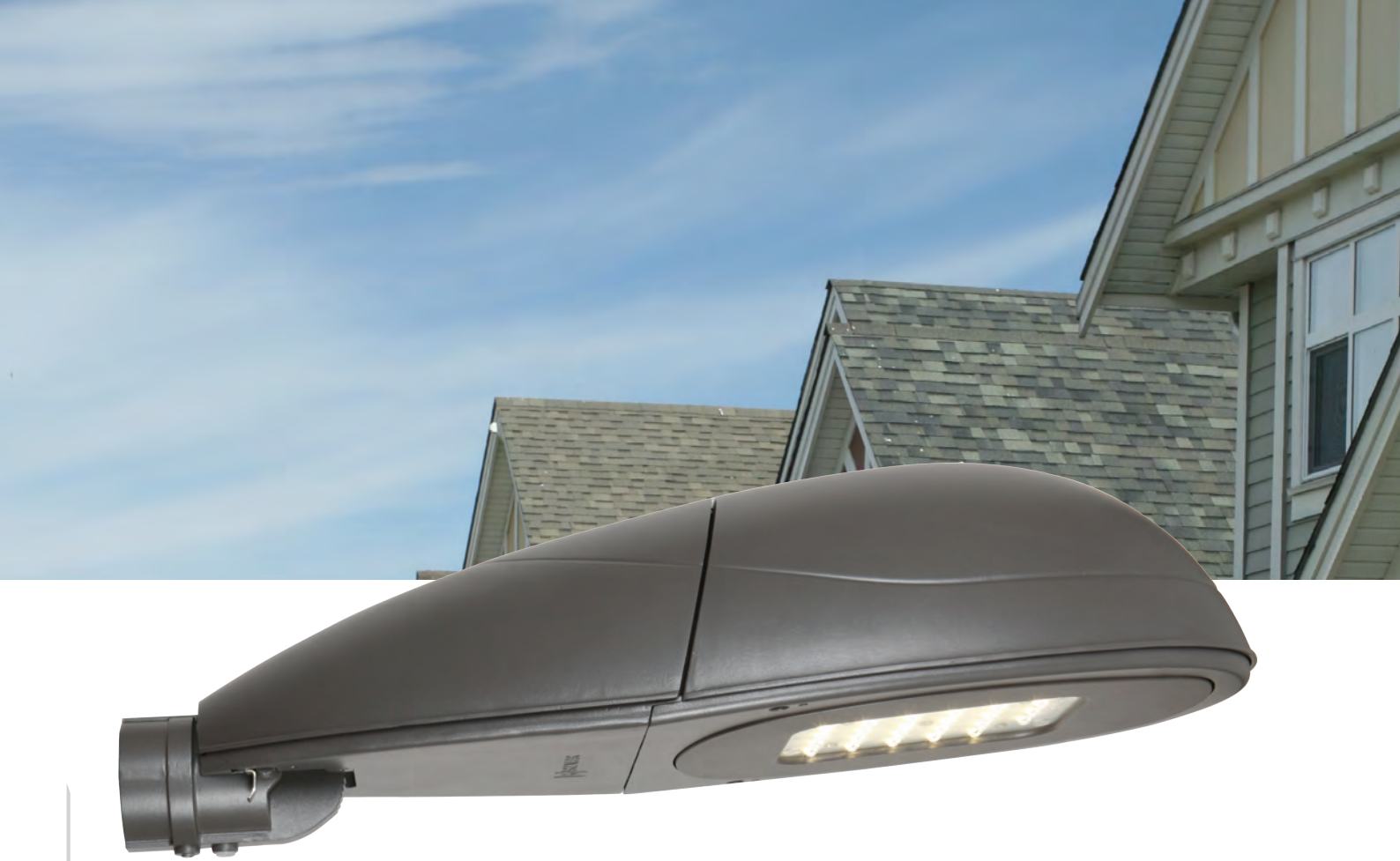
Opening of the luminaire without tools by push button located on the cover at the front of the luminaire {1}

The upper cover is held in the open position by a safety prop {2}

Cutting of the power supply when the luminaire is opened

TABLED 2 maintenance

Direct access to the equipment and the TABLE**D 2 modu**le once the cover is opened



PALEO

Luminaire design: Eclatec

PALEO is the successful combination of principles and reality.

Its form, finalised and modern, also speaks of functionality. In this regard, PALEO has many assets, its adaptability, the ease of opening and its large-sized equipment compartment.

Its sober silhouette, translates an efficiency of good quality, ideally suited for major roads such as city approaches.

TABLED 2 MODULE

Paleo on Kc bracket

Paleo on Delphi bracket

Paleo top on curved pole

PALEO

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 4 to 10 m
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas

DESCRIPTION

- Injection die-cast aluminium body
- Luminaire opens without tools
- Control gear integrated on a removable tray, disconnectable without tools
- Polyester powder coating, any colour available
- IP66
- IK07
- Class I or II
- **TABLED 2** module with mono lense
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

RETROFIT

- The **TABLED 2** module can be used to equip Paleo luminaires that were initially equipped with discharge lamps.

CITIZEN REFERENCE POINTS

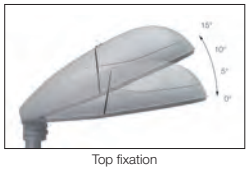
- Materials used: Aluminium 90%, Other 7%, Plastic 2%, Steel 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

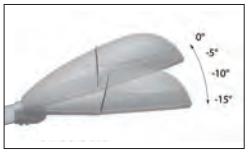
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

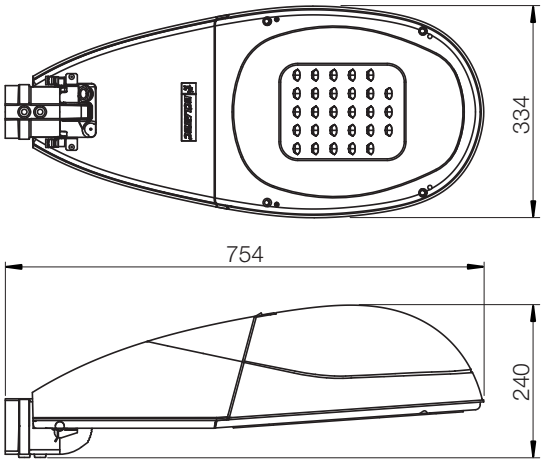
- Luminaire post top mounted on pole Ø 60/62mm
  For pole Ø 76 mm top, optional spigot B (see page 246)
  Tilts 0°, 5°, 10° and 15°
- Luminaire lateral mounted on bracket Ø 42, 49 and 60mm
  Tilts 0°, -5°, -10° and -15°



Top fixation

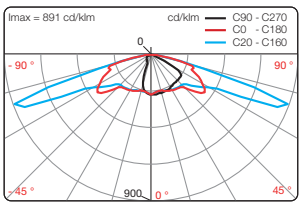


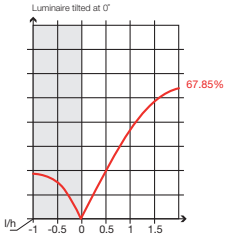
Side entry fixation
Bracket tilt at 15°



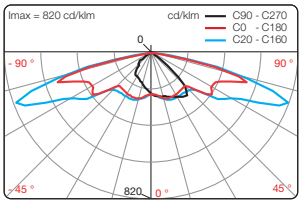
PHOTOMETRIC DISTRIBUTIONS

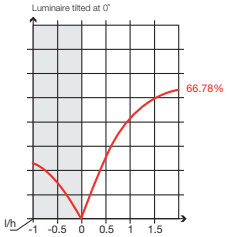
TABLED 2 - ERL



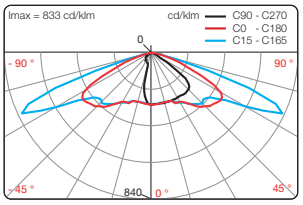


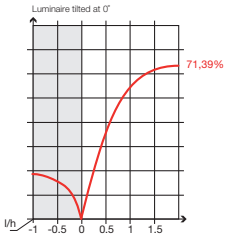
TABLED 2 - ERS





TABLED 2 - LRM





KEY POINTS

		PALEO
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas
Recommended heights		4 à 10 m
Mounting		Top and side entry
Dimensions	**Length** **width** **height**	754 mm 334 mm 240 mm
Weight		12,7 kg
Windage area		0,07 m²
Source		**TABLED 2**
Sources access		Luminaire opens without tools Removable **TABLED 2** module
Optics and light distribution options		ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the luminaire without tools by pressing on 2 hooks at the rear of the luminaire {1}
The cover is held in the open position by a safety prop {2}
Cutting of the power supply when the luminaire is opened

TABLED 2 maintenance

Direct access to the equipment once the cover is opened
Removable module (4 screws)

ECLAT

Luminaire design: Eclatec

When function creates the object…

ECLAT results from an approach stressing the qualities of functionality and robustness.

Their design uses solid arguments, such as their multi-directional ball, the hiding of their cabling and a wide choice of LED and conventional sources.

TABLED 2 MODULE

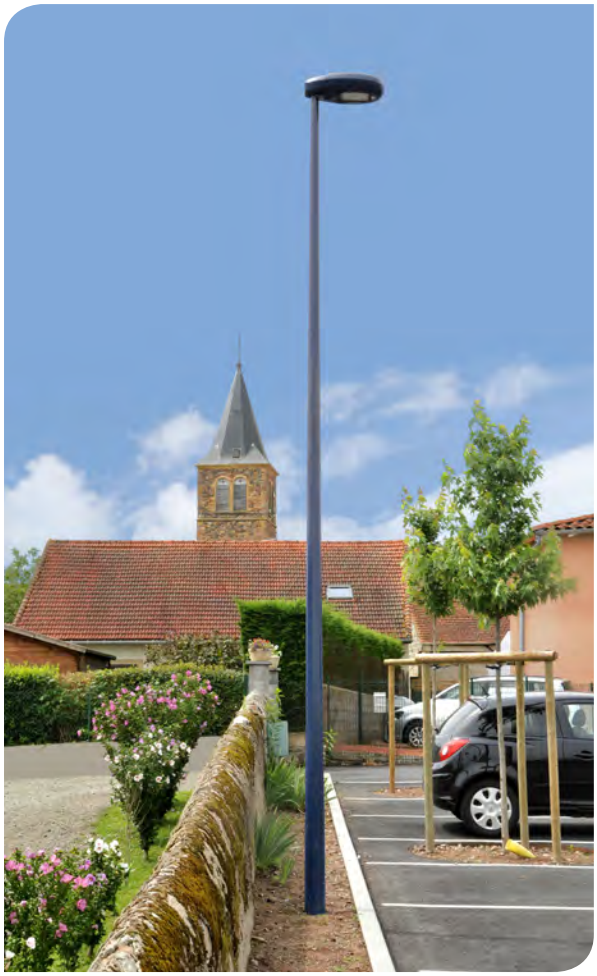
Eclat on Para bracket

Eclat on Pico bracket

Eclat Top

ECLAT

RoHS | IP 66 | IK 07 | <1% 0°5° ULR | ECLAT LED : 4-10 m



ECLAT

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 4 to 10 m
- Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas

DESCRIPTION

- Injection die-cast aluminium body
- Luminaire opens without tools
- Polyester powder coating, any colour available
- IP66
- IK07
- Class I or II
- Module **TABLED 2** équipé d'une monolentille
- **TABLED 2** module with mono lense
- Colour temperature: 4000 K and 3000 K

RETROFIT

- The **TABLED 2** module can be used to equip Paleo luminaires that were initially equipped with discharge lamps.

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 90%, Steel 6%, Other 4%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

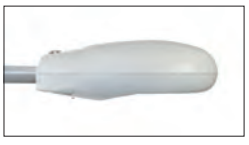
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

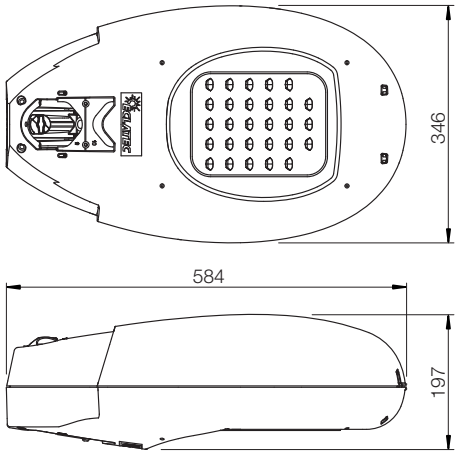
MECHANICAL INTERFACES

- Luminaire Post Top mounted on pole Ø 60/62 mm by a pressure screw. Penetration of 70 mm onto the pole
  For pole Ø 76 mm top, optional spigot C (see page 246)
  Luminaire tilts 5° and 20°
- Luminaire lateral mounted onto brackets Ø 42/49/60 mm by 2 pressure screws
  Bracket penetrates 90mm onto the lantern

Top fixation

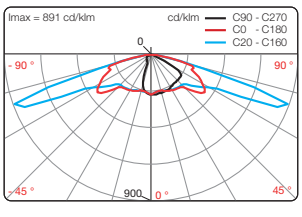


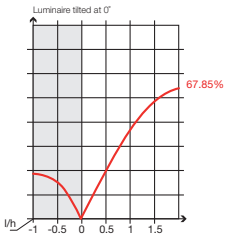
Side entry fixation



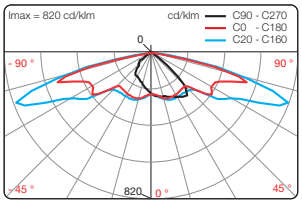
PHOTOMETRIC DISTRIBUTIONS

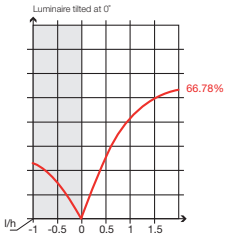
TABLED 2 - ERL



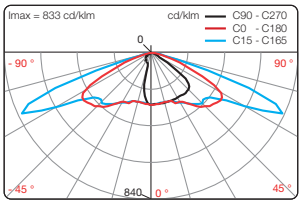


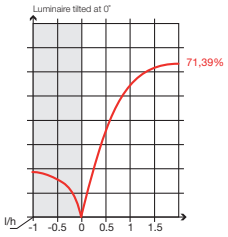
TABLED 2 - ERS





TABLED 2 - LRM





KEY POINTS

		ECLAT
Applications		Urban routes, pedestrian walkways, cycle paths, squares, parks and pedestrian areas
Recommended heights		4 to 10 m
Mounting		Top and side entry
Dimensions	**Length** **width** **height**	584 mm 346 mm 197 mm
Weight		12,7 kg
Windage area		0.07 m²
Source		**TABLED 2**
Sources access		Luminaire opens without tools Removable **TABLED 2** module
Optics and light distribution options		ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

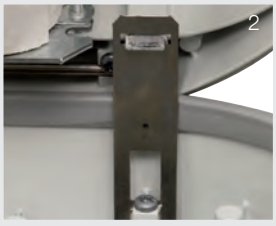
MAINTENANCE

Opening and closing

Opening of the luminaire without tools by quarter-turn screw located on the cover to the rear of the luminaire {1}
The cover is held in the open position by a safety prop {2}
Cutting of the power supply when the luminaire is opened

TABLED 2 maintenance

Direct access to the equipment and the **TABLED 2** module once the cover is opened



XEON

Luminaire design: Eclatec

The **XEON** projectors bring a new elegance to decorative lighting applications of high and medium height.

Their design uses solid arguments, such as their multi-directional ball, the hiding of their cabling and a wide choice of LED and conventional sources.
These characteristics favour discrete and efficient integration in needle-pole combinations or very high assemblies.

The **XEON** projectors are available in two sizes, the larger one being compatible with a 100 W discharge source.


LOCATION

XEON

XEON 2

XEON 3

APPLICATIONS

- Mounting: on plate
- Recommended heights: Xeon 2: 4 to 6 m / Xeon 3: 7 to 12 m
- Parks and gardens, squares, road lighting, architectural emphasis

DESCRIPTION

- Body, cover and runner in die-cast aluminium
- Bowl in thermally tempered and screen printed glass
- Polyester powder coating, any colour available
- IP66
- IK10
- Class I or II
- Quick connector on the projector output for simplified installation without opening the projector
- Luminaire pre-wired in the factory (6 m)
- **ORALENS** mono lenses
- Colour temperatures: 4000 K and 3000 K

CITIZEN REFERENCE POINTS

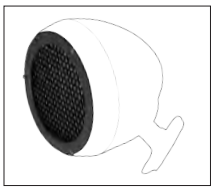
- Materials used:
  - XEON 2: Aluminium 72%, Glass 8%, Steel 2%, Plastic 2%, Other 16%
  - XEON 3: Aluminium 74%, Glass 10%, Steel 2%, Plastic 2%, Other 12%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

WATERPROOFING

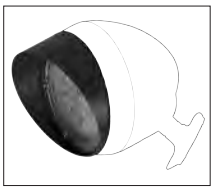
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone seal
- Cable gland
- Breathing system with activated carbon filter

OPTIONS

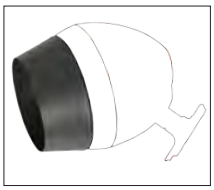
- Visor, anti-dazzle mesh, canon and diffuser glass options



Anti-dazzle mesh

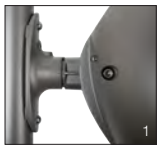


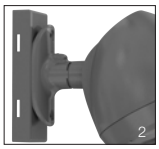
Visor



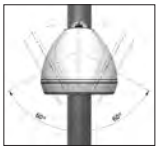
Canon

MECHANICAL INTERFACES

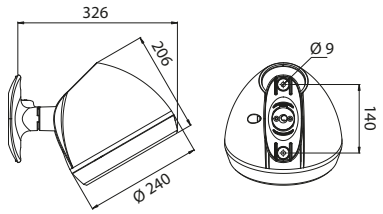




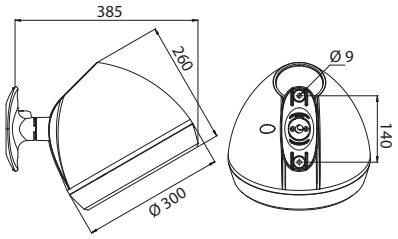
- Runner for conical and conical-cylindrical lamp post {1}
- Wall application using a special plate. {2}
  Centre distance: 140 mm



- Tilts:
  - Horizontal plane adjustment: -60° to +60° with travel stopper, locking using a screw
  - Max. vertical plane adjustment: 0° to +75°, locking using a screw



XEON 2



XEON 3

KEY POINTS

		XEON 2	XEON 3
Applications		Parks and gardens, squares, road lighting, architectural emphasis	
Recommended heights		4 to 6 m	7 to 12 m
Mounting		On plate	
Dimensions	**Ø** **height**	240 mm 206 mm	300 mm 260 mm
Weight		3,9 kg	5,5 kg
Windage area		0,04 m²	0,06 m²
Sources		Specific LED	
Sources access		Removable LED module	
Optics and light distribution options		PFI, PFM, PFL, ERS, ERL	PFI, PFM, PFL, ERS, ERL RGBW : PFI + Diffuser 10° or Diffuser 30°
	POLEDRIVE (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	-	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (preset)	-	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5 and DALI option	

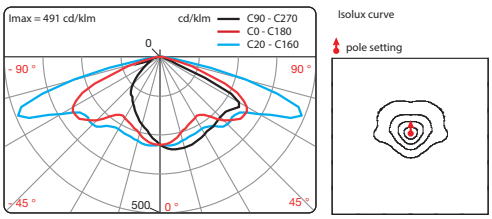
Glossary:

● Standard o Option - Not available

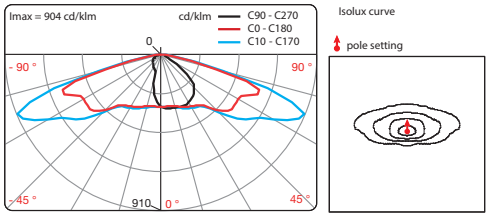
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

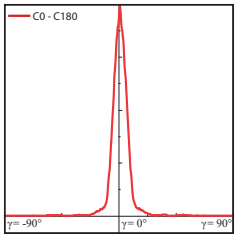
XEON - ERL



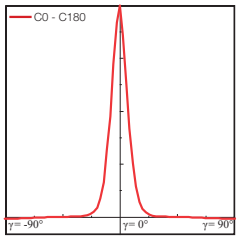
XEON - ERS



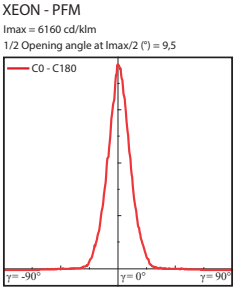
XEON - PFI



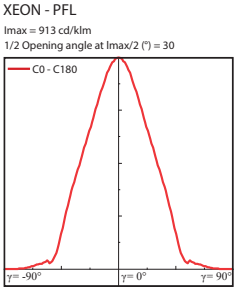
XEON RGBW - PFI + diffuser 10°



XEON - PFM



XEON - PFL

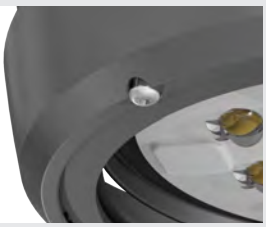


MAINTENANCE

Maintenance of the equipment and sources

Opening of the projector by 3 trapped screws (retention line)
Quick electrical disconnection without tools.
LED module removable onsite

1



IXIS

Luminaire design: Eclatec

Half projector, half luminaire, IXIS is located at the crossroads of current architectural trends.

IXIS opens a multitude of possibilities, by way of its flexibility.

This propensity is due to both its design, particularly its integrated adjustment and attachment system, and its multiple optical variations.

BLS STRIPS

IXIS

IXIS 1 - Provided with detector

IXIS 2

APPLICATIONS

- Mounting: lateral, post top and suspended
- Recommended heights: Ixis 1: 4 to 6 m / Ixis 2: 6 to 10 m
- Ixis 1: Urban streets, pedestrian routes, cycle paths, residential lighting, car parks, architectural emphasis
  Ixis 2: Roads, secondary urban and inter-urban streets, car parks, architectural emphasis

DESCRIPTION

- Luminaire available in 2 sizes: Ixis 1 and Ixis 2
- Injection die-cast aluminium body
- Toughened flat glass bowl
- Option: luminaire closed with a security screw
- Opens without tools by pressing the push-strip on the top casting
- Polyester powder coating, any colour available
- IP66
- IK10
- Class I or II
- Luminaire pre-wired in the factory (6 m)
- **ORALENS** mono lense
- Colour temperature: 4000 K and 3000K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

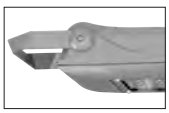
- Materials used:
  - Ixis 1: Aluminium 77%, Other 3%, Glass 8%, Steel 8%, Plastic 4%
  - Ixis 2: Aluminium 76%, Other 4%, Glass 9%, Steel 6%, Plastic 5%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

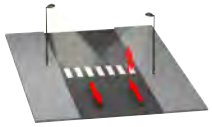
MECHANICAL INTERFACES

- Angles marking system
- Fitting for mounting on bracket end with external Ø 60 mm (see page 246 - E, F)

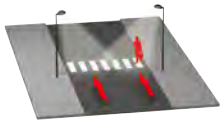


- Stirrup mounting bracket made of steel, suspended or top mounted on adjustable brackets

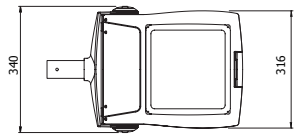
ECLAIREMENT PASSAGE PIÉTON

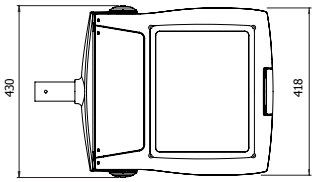


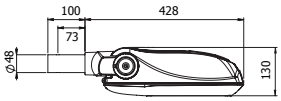
- **EPD: pedestrian crossing lighting Right**
  Luminaire placed upstream of the crossing section, in the moving traffic direction, for a two-way street application



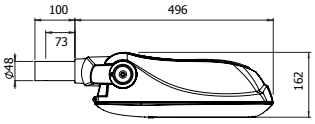
- **EPG: pedestrian crossing lighting Left**
  Luminaire in addition to EPD, placed upstream of the crossing section, for wide one-way street application



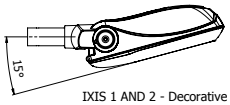




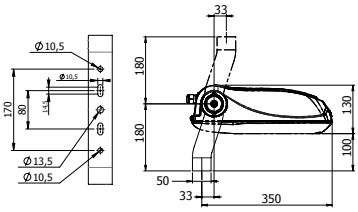
IXIS 1 - Decorative U-bracket in aluminium



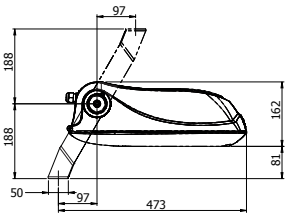
IXIS 2 - Decorative U-bracket in aluminium



IXIS 1 AND 2 - Decorative U-bracket adjustement



IXIS 1 - Galvanised steel stirrup bracket



IXIS 2 - Galvanised steel stirrup bracket

KEY POINTS

		IXIS 1	IXIS 2
Applications		Urban streets, pedestrian routes, cycle paths, residential lighting, car parks, architectural emphasis	Roads, secondary urban and inter-urban streets, car parks, architectural emphasis
Recommended heights		4 to 6 m	6 to 10 m
Mounting		lateral, post top and suspended	
Dimensions	**Length** **width** **height**	428 mm 316 mm 130 mm	496 mm 418 mm 162 mm
Weight		8 kg	12 kg
Windage area		0,06 m²	0,08 m²
Sources		BLS strips	
Sources access		Opens without tools by pressing the push-strip on the top casting: direct access to the gear Access to the LED bars and lenses by removing the bowl	
Optics and light distribution options		ERS, ERL, ECa, ERE, LRL, LRS, EPD, EPG, PFA, ETS	ERS, ERL,ECa, ERE, LRL, LRS, PFA
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (preset)	o	-
	Motion COM (setting on site)	o	
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

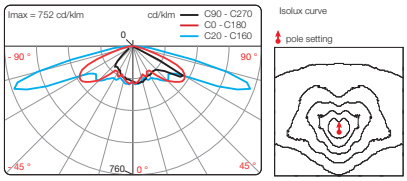
Glossary:

● Standard o Option - Not available

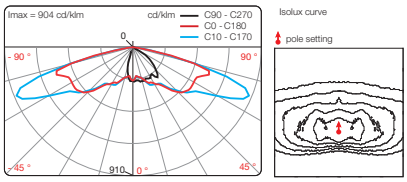
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

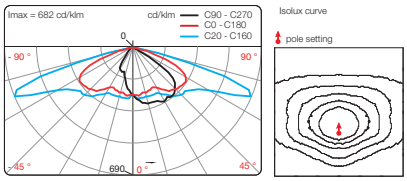
IXIS - ERL



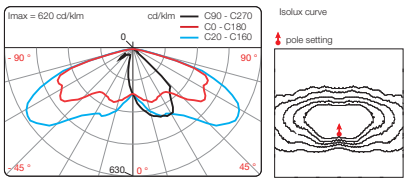
IXIS - ERS



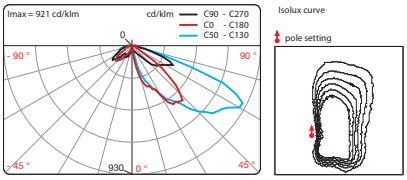
IXIS - LRL



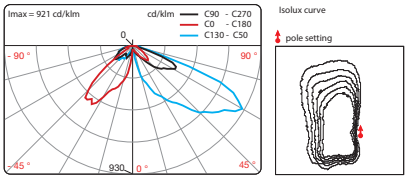
IXIS - LRS



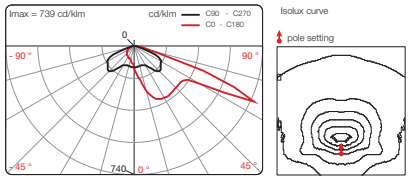
IXIS - EPD



IXIS - EPG



IXIS - PFA



MAINTENANCE

Opening and closing

Opens without tools by pressing the paddle on the top cover.
Cutting of the power supply when the luminaire is opened.
Closure of the luminaire with a security screw as an option.

Lighting equipment maintenance

Quick electrical disconnection without tools. Circuit board removable onsite without tools.

Source maintenance

Access to LED strips and lenses after removal of the glass bowl attached with 4 screws

STANZA

Luminaire design: Christophe Canadell

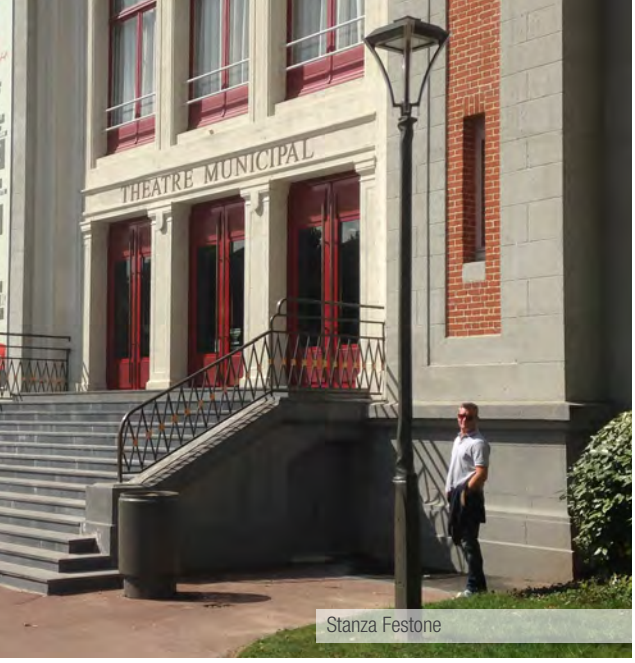
STANZA was born of a desire to rejuvenate, but without betraying, the silhouette of the 4-sided luminaires of yesteryear.

The happy union of the materials gives this luminaire a magic touch that will reveal the charms and secrets of the old cities. And in more modern settings, **STANZA** hints at the mystery of a city that is familiar and welcoming yet also forward-looking.

STANZA is available in both top-mounted and suspended configurations, and there are several variants. In its LED version, it comes with a SOMLED 1 module or BLS type LED strips.

BLS STRIPS

SOMLED 1 MODULE



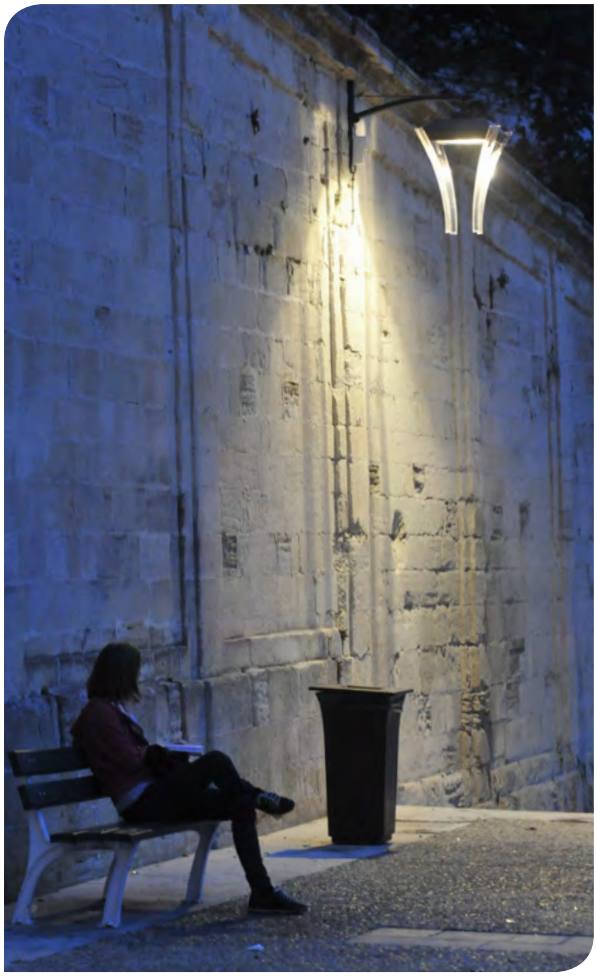
Stanza Festone

Stanza

Stanza Festone

STANZA

Luminaire design: Christophe Canadell



STANZA

APPLICATIONS

- Mounting: Post top or suspended
- Recommended heights: 4 to 8 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Injection die-cast aluminium body
- Arms in polycarbonate (UV treatment)
- Thermally toughened flat glass
- According to the version, injected aluminium arms and carrying structure
- Polyester powder coating, any colour available
- IP66
- IK10
- Luminaire pre-wired in the factory (6 m) (post top version only)
- Class I or II
- SOMLED 1 module or BLS STRIPS
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

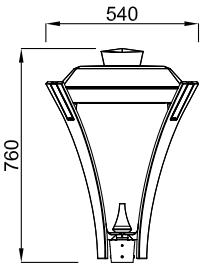
- Materials used: Aluminium 68%, Plastic12%, Steel 9%, Glass 7%, Other 4%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

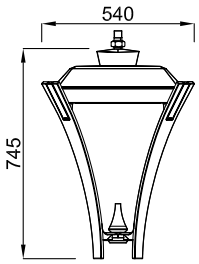
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket - high temperature on the body and glass
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

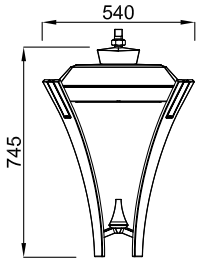
- Post top luminaire:
  Fixation on standard pole Ø 60/62mm
  For pole Ø 76 mm top, optional spigot C (see page 246)
  Post top mounted, fastened by 8 screws (M8)
- Suspended luminaire:
  Suspended fixation with gas threaded swivel joint Ø 27 (see page 246 - H)



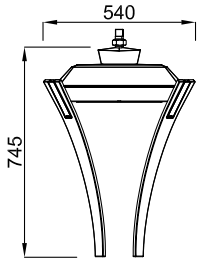
Post top with aluminium frame



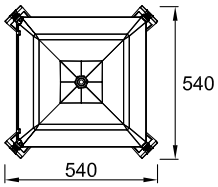
Suspended with aluminium frame



Suspended with polycarbonate cross brace

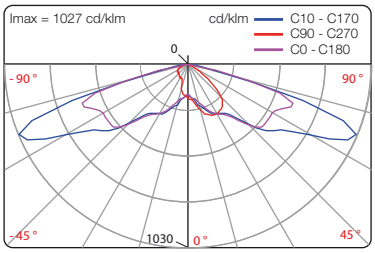


Suspended without cross brace

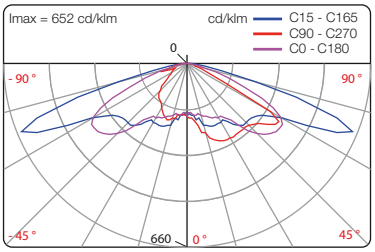


PHOTOMETRIC DISTRIBUTIONS

SOMLED 1 - ERS (post top version)



SOMLED 1 - ERL (post top version)



KEY POINTS

		STANZA
Applications		Urban streets, pedestrians, cycle paths, squares
Recommended heights		4 to 10 m
Mounting		Post top or suspended
Dimensions	**Length** **width** **height**	540 mm 540 mm 745 mm
Weight		suspended with/without cross brace: 16 kg suspended with aluminium frame: 18 kg Post top: 18,5 kg
Windage area		suspended without cross brace: 0,14 m² suspended with cross brace: 0,15 m² suspended with aluminium frame: 0,15 m² Post top: 0,15 m²
Sources		SOMLED 1 BLS STRIPS
Optics and light distribution options		SOMLED 1 : ECL, ERS, ERL BLS STRIPS : ECa, ERS, ERL, LRL, LRS
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	o
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	o
	DALI (preset)	o
	FC (preset)	Compatible with standard version or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: **R**oad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

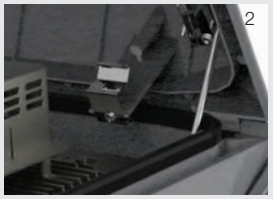
Opening and closing

Unlocking of the cover with a flat screwdriver. {1}
Opening of the cover and resting on the safety prop. {2}


1

Source maintenance

Direct access to the SOMLED 1 module after opening the cover. {3}
Power supply by quick connectors. Removable module.


2


3

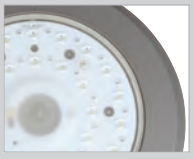
PERLE

Luminaire design: Cécile Planchais

PERLE tells the story of a luminaire that brings personality and consistency to decorative lighting columns, in classical, Art Deco and even contemporary versions.

By day, the thousand facets of its dome play with the light in the same way as an instrument might interpret sheet music.
PERLE can be suspended or top-mounted thanks to a stylish STIRRUP (U-bracket).
Bowls of various forms push personalisation even further, suggesting almost magical lighting moods by night.

Of course, **PERLE** does not overlook the modern aspect of highly contemporary technical solutions (its LED version takes an ORALED 1 module).



ORALED MODULE

Perle

Perle on Saint-Germain II bracket

PERLE

Luminaire design: Cécile Planchais

RoHS | IP 66 | IK 08 | ≤1% 0°5° ULR | PERLE : 4,5-7 m

PERLE

APPLICATIONS

- Mounting: U-bracket or suspended
- Recommended heights: 4,5 to 7 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Injected die cast aluminium corps, dome, bracket
- Polycarbonate conical clear bowl (PTC) (only with bracket)
- Polycarbonate short clear bowl (PCC) (only suspended without bracket)
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- **ORALED 1** module with **ORALENS** lenses, module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 87%, Steel 5%, Other 5%, Plastic 3%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

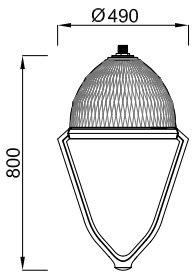
WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Breathing system with activated carbon filter

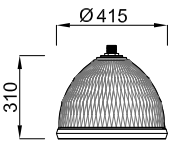
MECHANICAL INTERFACES

- Top-mounted U-bracket: fastening Ø 42mm, L 70mm (see page 246 - L)
- Suspended: swivel joint and Ø ¾" thread for female boss - Length 35mm (see page 246 - I)
- Options: trims Ø 76 and Ø 89 and Catelux fixation

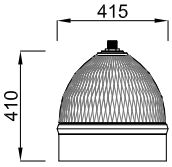
Ø 76 *Ø 89*



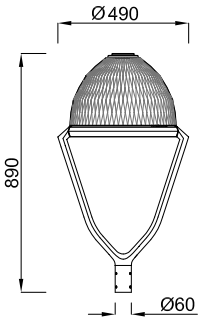
Perle S
decorative U-bracket



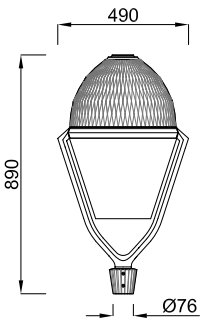
Perle S LED



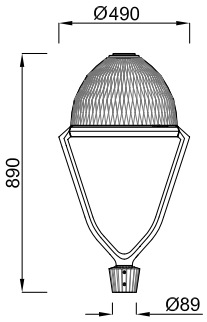
Perle S PCC



Perle U-bracket wit-
hout trim



Perle PTC U-bracket
with trim



Perle U-bracket with
trim

KEY POINTS

		PERLE
Applications		Urban streets, pedestrians, cycle paths, squares
Recommended heights		4,5 to 7 m
Mounting		U-bracket and suspended
Dimensions	**Ø height**	Perle: 415 mm / Perle U-bracket: 490 mm Perle: 310 mm / Perle U-bracket: 890 mm
Weight		Perle: 8,8 Kg Perle U-bracket: 17,5 kg Perle Post top: 18,5 kg
Windage area		Perle: 0,07 m2 Perle Lyre: 0,11 m2
Sources		ORALED 1
Optics and light distribution options		ECL, ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	o
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	o
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option

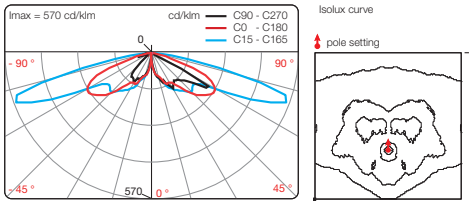
Glossary:

● Standard o Option – Not available

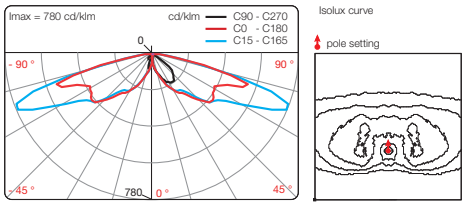
E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

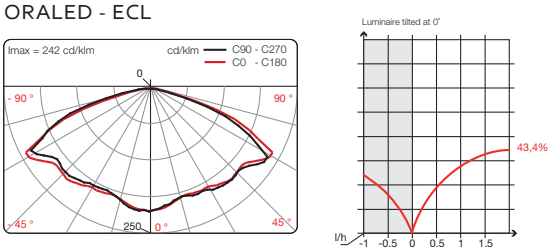
PERLE ORALED 1 ERL



PERLE ORALED 1 ERS



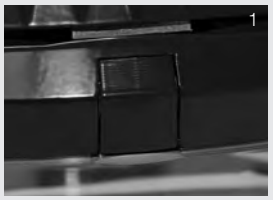
ORALED - ECL



MAINTENANCE

Opening and closing

Opening of the luminaire by push button. {1}
The luminaire is held in the open position by a safety prop. {2}
Direct access to the equipment dès l'ouverture du luminaire.



ODELIA

Luminaire design: GHM

Simply reinterpreting the silhouettes common at the beginning of the 20th century, **ODELIA** clearly shines in classical versions, but brings some much needed sobriety to more contemporary configurations.

ODELIA is available in two sizes.

Although the line of descent of this luminaire draws inspiration from classical forms, this is done without compromise when it comes to modern technologies: in its LED version, depending on the size, **ODELIA** takes the ORALED 1 or 2 modules.

ORALED MODULE

Odelia

Odelia on Nymphea bracket

Odelia on Kendo bracket

ODELIA

Luminaire design: GHM

ODELIA

APPLICATIONS

- Mounting: suspended
- Recommended heights: ODELIA 550: 5 to 8 m / ODELIA 670: 6 to 8 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Luminaire available in 2 sizes: Odélia 550 and Odélia 670.
- Spun aluminium dome on a cast aluminium frame
- Polyester powder coating, any colour available
- IP65
- IK07
- Class I or II
- **ORALED** modules with **ORALENS** lenses, modules painting 2150 or 2900 sanded grey
- Colour temperature: 3000 K and 4000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

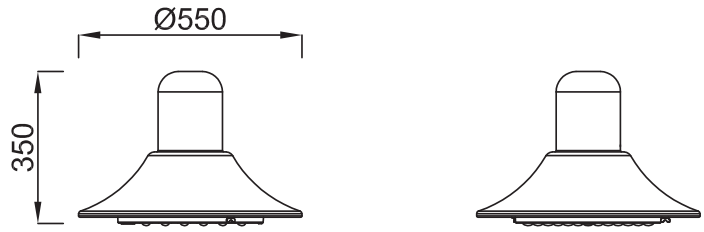
- Materials used: Aluminium 71%, Steel 24%, Plastic 4%, Other 1%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

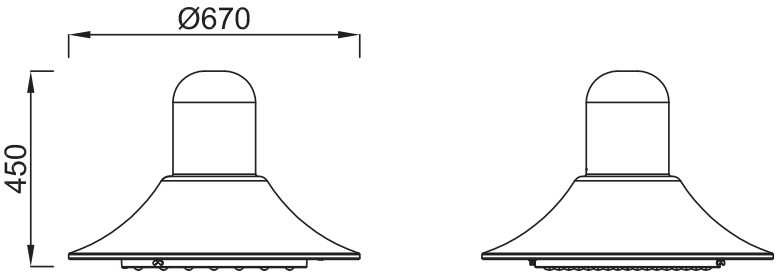
- IP65 (optic and equipment) waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket - high temperature

MECHANICAL INTERFACES

- Odelia 550: suspended with a threaded Nipple Ø 27 pdg, L 30mm (see page 246 - H)
- Odelia 670: suspended with a threaded Nipple Ø 34 pdg, L 30mm (see page 246 - I)



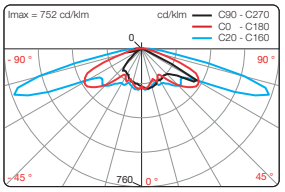
ODELIA 550

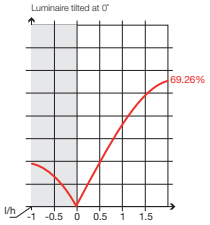


ODELIA 670

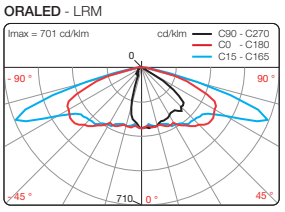
PHOTOMETRIC DISTRIBUTIONS

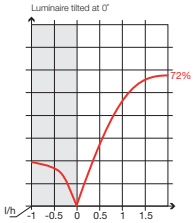
ORALED - ERL



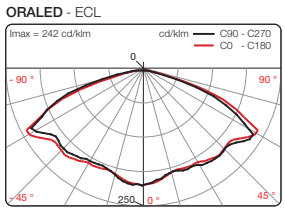


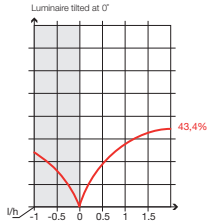
ORALED - LRM



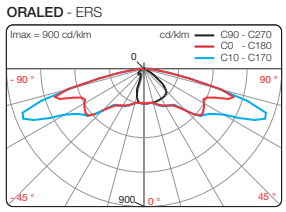


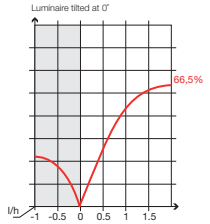
ORALED - ECL





ORALED - ERS





KEY POINTS

		ODELIA 550	ODELIA 670
Applications		Urban streets, pedestrians, cycle paths, squares	
Recommended heights		4 to 6 m	6 to 10 m
Mounting		Suspended	
Dimensions	**Ø** **height**	550 mm 350 mm	670 mm 450 mm
Weight		7,8 kg	8,3 kg
Windage area		0,10 m²	0,15 m²
Sources		***ORALED 1***	***ORALED 2***
Sources access		Removable **ORALED** modules	
Optics and light distribution options		ECL, ERS, ERL, LRM	ERS, ERL, LRM, LRE
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	o	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (preset)	o	-
	Motion COM (setting on site)	-	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The ORALED module swivels around a hinge in aluminium.

Module maintenance

Quick connectors to remove the power supply unit.
Direct access to ORALED module, removable.

YSALIS

Luminaire design: GHM

The **YSALIS** design originates from a streamlined, modernised vision of traditional forms found in GHM catalogues in the 1930s. In its own way, this luminaire thus perpetuates the familiar silhouettes found in the collective subconscious of citizens.

This luminaire, originally designed for top-mounting, can also be combined with a STIRRUP (U-bracket) for pole-top mounting. A wide range of decorative accessories is also available, giving you the option of truly classical versions.

This restyling keeps up with modern technology: in its LED version, YSALIS takes an ORALED 2 module.

ORALED MODULE

Ysalis on Saumur bracket

Ysalis on Metrople I bracket

Ysalis U-bracket

YSALIS

Luminaire design: GHM

YSALIS

APPLICATIONS

- Mounting: suspended and U-bracket
- Recommended heights: 6 to 8 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Available in 3 versions: C1, C2 and C3
- C1, C2 (upper decorative arrangement made of die cast aluminium)
- C3 (upper and lower decorative arrangements made of die cast aluminium)
- Die-cast aluminium body
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP66
- IK07
- Class I or II
- **ORALED 2** module with **ORALENS** lenses, module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

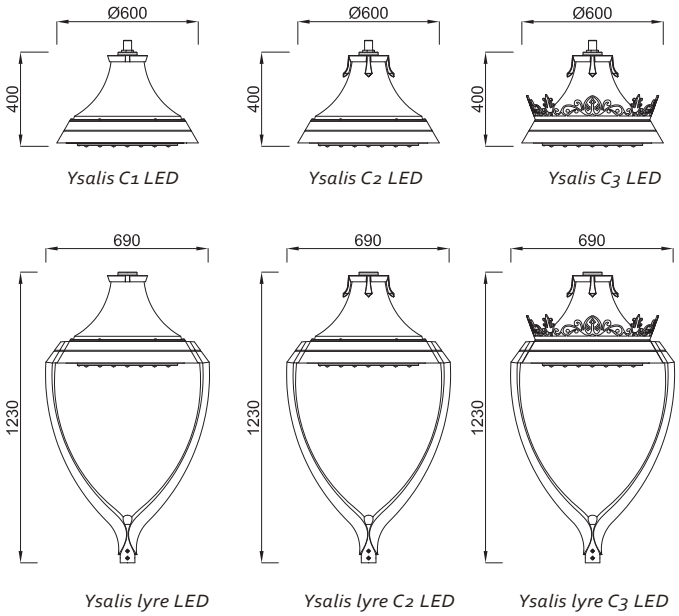
- Materials used: Aluminium 73%, Steel 19%, Plastic 6%, Other 2%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Breathing system with activated carbon filter

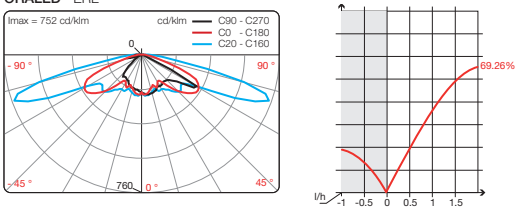
MECHANICAL INTERFACES

- Suspended with threaded Nipple Ø 34 pdg, L 32mm (see page 246 - I)
- Top mounted with male bracket fastening Ø 49mm L 70mm (see page 246 - M)

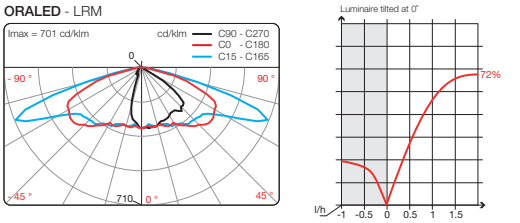


PHOTOMETRIC DISTRIBUTIONS

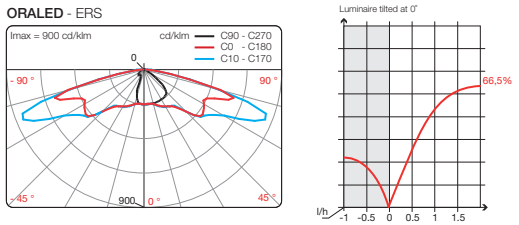
ORALED - ERL



ORALED - LRM



ORALED - ERS



KEY POINTS

		YSALIS
Applications		Urban streets, pedestrians, cycle paths, squares
Recommended heights		6 to 8 m
Mounting		U-bracket and suspended
Dimensions	**Ø height**	Ysalis: 600 mm / Ysalis U-bracket: 690 mm Ysalis: 400 mm / Ysalis U-bracket: 1230 mm
Weight		Ysalis: 8 Kg
Windage area		Ysalis: 0,17 m²
Sources		Removable **ORALED 2** module
Sources access		Luminaire opens without tools
Optics and light distribution options		ERS, ERL, LRM, LRE
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the luminaire without tools using the push button integrated into the lower plate.

Module maintenance

Quick connectors to remove the power supply unit.
Direct access to ORALED module, removable.

BEAUREGARD

Luminaire design: GHM

The worthy heir of the lampposts of yesteryear, this luminaire holds a unique place in city centre lighting; the LED technology, combined with a highly contemporary design, has given it a new lease of life. The **BEAUREGARD** luminaire thus perpetuates a familiar ambiance in the hearts of citizens for many years to come, while meeting all modern technical expectations.

Available in two sizes, in stainless steel or copper, this luminaire can be suspended or top-mounted. A range of bowls is available, depending on the effect sought.

In its LED version, which is very widespread nowadays, the BEAUREGARD luminaire in size 2 takes a SOMLED 1 module or standardised BLS strips.

BLS STRIPS

SOMLED 1 MODULE

Beauregard on N°7 bracket

Beauregard on Paris II bracket

Beauregard on Metropole I bracket

BEAUREGARD II

Luminaire design: GHM

RoHS | IP 65 | IK 10 | ≤1% 0°5° ULR | BEAUREGARD II : 3-8 m

BEAUREGARD II

APPLICATIONS

- Mounting: suspended et post top
- Recommended heights: 3 to 8 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Four-legged holder in injected aluminium
- Fitting and dome in stainless steel or copper (option)
- Embellishment screws made of brass
- Deep, short or flat bowls
- Structured or flat bowls
- Stainless steel version: Polyester powder coating, standard colour RAL 9005. Other colours on request
- Copper fitting (option): polyester varnish
- IP66
- IK10
- Class I or II
- SOMLED 1 module or BLS STRIPS
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

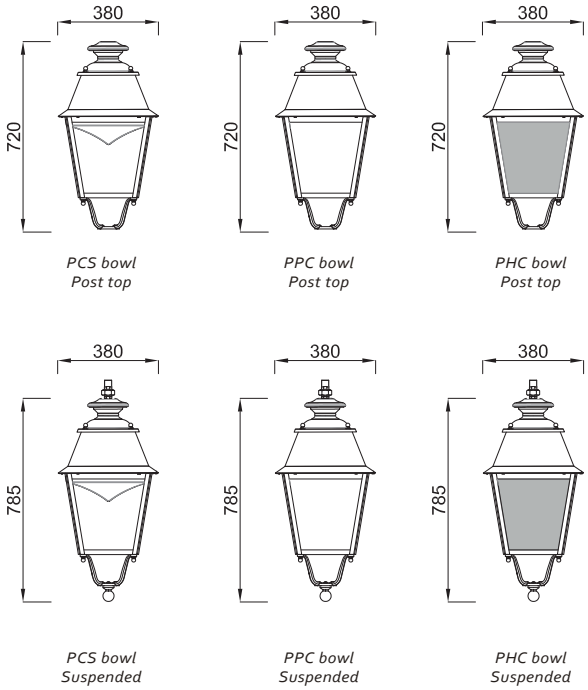
- Materials used: Steel 47%, Aluminium 38%, Other 10%, Plastic 5%
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

- IP65 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Breathing system with activated carbon filter

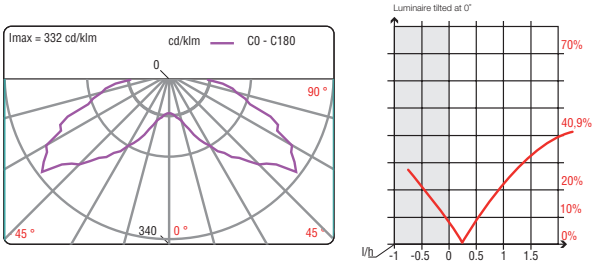
MECHANICAL INTERFACES

- Post top luminaire: gliding hole for Ø27 pdg (see page 246 - K)
  Optional post top 27 PDG (3/4") for 60/62mm pole {1}
- Suspended luminaire: threaded swivel joint Ø 27 pdg (see page 246 - H)

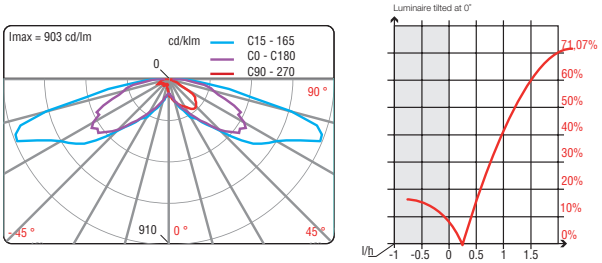


PHOTOMETRIC DISTRIBUTIONS

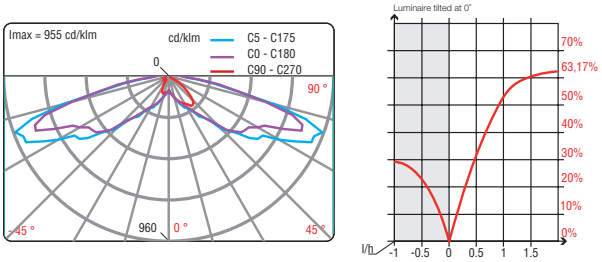
B2 - SOMLED 1 - ECL (B2 suspended, deep bowl)



B2 - SOMLED 1 - ERL (B2 suspended, deep bowl)



B2 - SOMLED 1 - ERS (B2 suspended, deep bowl)



KEY POINTS

		BEAUREGARD II
Applications		Urban streets, pedestrians, cycle paths, squares
Recommended heights		3 to 8 m
Mounting		Post top and suspended
Dimensions	**width** **height**	380 mm 720 mm
Weight		10 Kg
Windage area		0,13 m² short bowl 0,20 m² deep bowl
Sources		**SOMLED 1** **BLS STRIPS**
Optics and light distribution options		SOMLED 1: ECL, ERS, ERL BLS STRIPS: ECa, ERS, ERL, LRL, LRS, ERE
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	o
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	o
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Ro**a**d/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rr**o**w/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

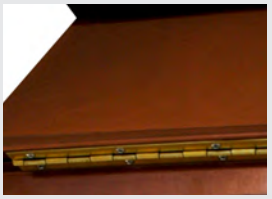
MAINTENANCE

Opening and closing

Opening of the luminaire by 2 quarter-turn screws.
Holding the luminaire cover in the open position, held by a steel cable.

Module maintenance

Direct access to the LED module after opening the cover.
Power supply by quick connectors.
Removable module.



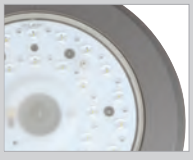
CHENONCEAUX

Luminaire design: GHM

CHENONCEAUX is the luminaire of princes and the prince of luminaires. It comes together with class and distinction in well-known sites… the Champs-Elysées, for example, but it also helps to bring esteemed elegance to streets, squares and places full of tradition.

Preserving this heritage in no way affects the modern design and manufacture of the technical solutions chosen for this luminaire (choice of materials, manufacturing processes, IP and IK ratings, LED technology, etc.).

Available in two sizes, the LED version of this luminaire takes an ORALED 2 module (CHENONCEAUX III), while CHENONCEAUX size II has a specific module.



ORALED MODULE

Chenonceaux

Chenonceaux on Chantilly bracket

Chenonceaux on Belle Epoque pole

CHENONCEAUX

Luminaire design: GHM

RoHS | IP 66 | IK 10 | <1% 0°5° ULR | CHENONCEAUX : 4-6 m

CHENONCEAUX

APPLICATIONS

- Mounting: suspended and post top
- Recommended heights: 4 to 6 m
- Urban streets, pedestrians, cycle paths, squares

DESCRIPTION

- Available in 2 sizes: Chenonceaux II and Chenonceaux III
- Luminaire made of aluminium or bronze/copper
- PMMA clear bowl (MPC) made of bronze/copper only
- Polycarbonate clear bowl (PPC) aluminium version
- Polyester powder coating, any colour available
- Varnish on copper
- IP66
- Chenonceaux III: IK10
- Class I or II
- **ORALED 1** module with **ORALENS** lenses, module painted 2150 or 2900 sanded grey
- Colour temperature: 4000 K and 3000 K
- Luminaire eligible for Energy Saving Certificates

CITIZEN REFERENCE POINTS

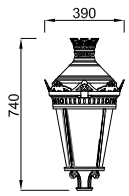
- Materials used:
  - Chenonceaux II aluminium version: Aluminium 78%, Plastic 14%, Steel 6%, Other 2%.
  - Chenonceaux II bronze/copper version: Bronze 69%, Plastic 15%, Other 11%, Copper 5%.
  - Chenonceaux III aluminium version: Aluminium 79%, Plastic 11%, Other 7%, Steel 3%.
  - Chenonceaux III bronze/copper version: Bronze 69%, Plastic 15%, Other 11%, Copper 5%.
- Complies with the RoHS directive
- ULR < 1%
- High recyclability rate

WATERPROOFING

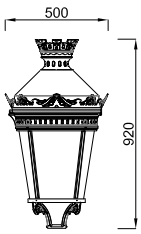
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket - high temperature on the body and glass
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

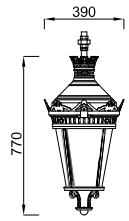
- Suspended: standard, with threaded swivel joint Ø 27 pdg (see page 154 - H)
- Post top: clearance hole for a 27mm gas thread (see page 154 - K)



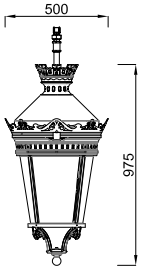
CHENONCEAUX II
Post top



CHENONCEAUX III
Post top

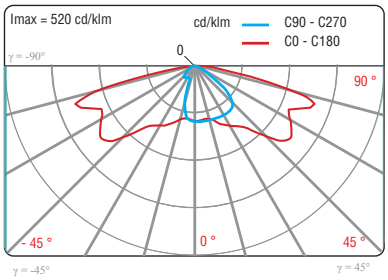


CHENONCEAUX II
Suspended

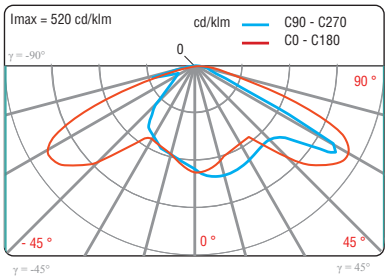


CHENONCEAUX III
Suspended

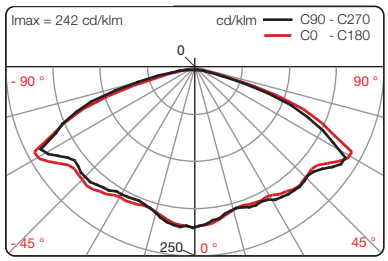
CHENONCEAUX III ORALED 1.2 - ERS



CHENONCEAUX III ORALED 1.2 - ERL



CHENONCEAUX III ORALED 1.2 - ECL



KEY POINTS

		CHENONCEAUX II	CHENONCEAUX III
Applications		Urban streets, pedestrians, cycle paths, squares	
Recommended heights		4 to 6 m	
Mounting		Suspended and post top	
Dimensions	**Ø height**	390 mm post top: 740 mm suspended: 770 mm	500 mm post top: 920 mm suspended: 975 mm
Weight		7,2 kg	15,3 kg
Windage area		0,12 m²	0,23 m²
Sources		*Specific*	*ORALED 1*
Optics and light distribution options		ECL, ERS, ERL	ECL, ERS, ERL, LRM
OPTIONS	**POLEDRIVE** (set in the bottom of the pole)	o	o
	Dimming 5 (preset)	o	o
	Motion (setting on site)	-	-
	Motion P (set in the bottom of the pole)	o	o
	Motion DALI (set in the bottom of the pole)	-	-
	Motion 5 (preset)	-	-
	Motion COM (setting on site)	-	-
	DALI (preset)	o	o
	FC (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole **/** night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

MAINTENANCE

Opening and closing

Opening of the cover by a screw.

Module maintenance

Quick connectors to remove the power supply unit.
Direct access to ORALED module, removable.
Holding the cover open with a prop.

PRIORILED

The ECLATEC **PRIORILED** LED solution reinforces safety at the edges of pathways; in effect, at night, the double contrast of a reinforced light stream and a separated colour temperature cleanly separates the pedestrian pathways.

In doing so, the **PRIORILED** system applies LED technology to the widely-proven principles of PRIORITEC and ELIPTEC luminaires, which, for their part, use conventional sources.

Two versions are available (flow displaced to the right or left), depending on the position of the luminaire with respect to the pedestrian walkway. Finally, the **PRIORILED** module is based on the ORALED module; it is therefore interchangeable and evolutionary.

The **PRIORILED** solution is associated with the ELIPT, TSANA, INDICE and INDICE CONIC luminaires.

PRIORILED MODULE

PRIORILED

APPLICATIONS

- Mounting: top and side entry
- Recommended heights: 3,5 to 5 m
- Pedestrian crossing

DESCRIPTION

- Prioriled module is mounted on following luminaires:
  Elipt 55, Tsana 55, Indice 620, Indice conic
- Injection die-cast aluminium body
- Polyester powder coating, any colour available
- IP66
- IK08
- Class I or II
- Removable Prioriled module with **ORALENS** mono lense
- Colour temperature: 6500K

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 86%, Other 7%, Steel 4%, Polymers 3%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

MECHANICAL INTERFACES

- LRL: Elipt side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60mm. Tilts from -90° to + 90° (see page 246 - E, F)
- LR: Elipt side entry with swivel joint and Ø ¾" thread for female boss welded onto pole or bracket. Tilts from -90° to + 90° (see page 246 - G)
- Top or Bitop fitting for pole Ø 60/62mm
  For pole Ø 76mm top, optional spigot A (see page 246) Luminaire tilted at 0° and 10°
- LL: Elipt side entry coupled with sleeve for bracket end with external Ø 60mm (see page 246 - E, F)
- Elipt on cast aluminium plate (see page 246 - J)
- Elipt on cast aluminium wall bracket
- SR: Elipt suspended with swivel joint (see page 246 - H)


LRL and LR


Top or bitop


LL


Plate


Wall-bracket


SR

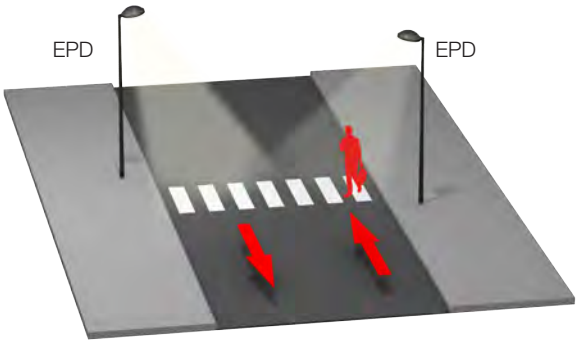
KEY POINTS

		PRIORILED ELIPT
Application		Pedestrian crossing
Recommended heights		3,5 to 5 m
Mounting		Top and side entry
Dimensions	**Ø** **height**	555 mm 215 mm
Weight		13,7 kg
Windage area		0,09 m²
Source		**Prioriled**
Sources access		Removable **Prioriled** module
Optics and light distribution options		EPD, EPG*

Glossary:
EPD: pedestrian crossing lighting Right, **EPG:** pedestrian crossing lighting Left

LIGHTING OF PEDESTRIAN CROSSINGS

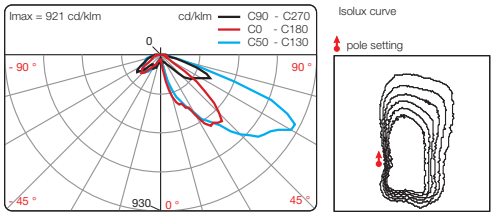
- **EPD: pedestrian crossing lighting Right**
  Luminaire placed upstream of the crossing section, in the moving traffic direction, for a two-way street application



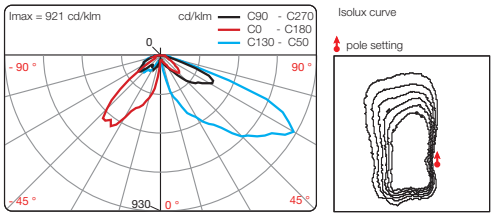
- **EPG: pedestrian crossing lighting Left**
  Luminaire in addition to EPD, placed upstream of the crossing section, for wide one-way street application

PHOTOMETRIC DISTRIBUTIONS

PRIORILED EPD



PRIORILED EPG



MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The Prioriled module swivels around a hinge in aluminium.

Maintenance Prioriled

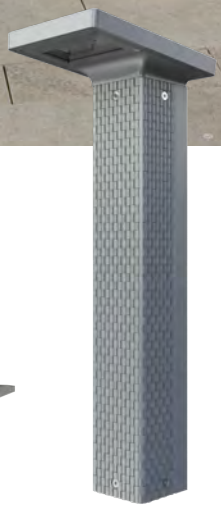
Direct access to the prioriled module
Power supply by quick connectors
Removable Prioriled module

TREK (PMR*)

TAIGA (PMR*)

TEAM (PMR*)

ZESTO (PMR*)



PIXEL (PMR*)

URBINO

CADIX

FLORE

Réalité Augmentée

BOLLARDS

LIGHTING & LIT

Bollards design: Eclatec, Jean-Baptiste DUTHILLEUL, Françoise PERSOUYRE, Jean-Michel WILMOTTE

Eight models of LED bollards now appear in the catalogue, including five recently added to reinforce the ECLATEC offering; these five latest models meet PMR* standards (source allowing average lighting greater than 20 Lux, depending on the installation):

- TREK: its geometry allows removing the head of the bollard to the outside of the path.
- TAÏGA: this bollard reuses the minimalist aesthetic principles of the poles in the TAÏGA range.
- TEAM: with its cylindrical form, TEAM has a less sectored distribution.
- ZESTO: A variant of the ZESTO luminaire, this PMR bollard accepts the module common to TAÏGA and TREK.
- PIXEL: Offers the elegance of the PIXEL line and uses the same exclusive pattern.
- FLORE: This bollard is part of the FLORE line, using its plant-inspired patterns and references
- URBINO: Its elegance is shared across the entire URBINO furniture and lighting line.

* Dedicated LED module for accessibility of disabled persons (PMR)


Zesto Bollard


Trek Bollard


Pixel Bollard


Team Bollard


Taïga Bollard


Cadix Bollard


Flore Bollard

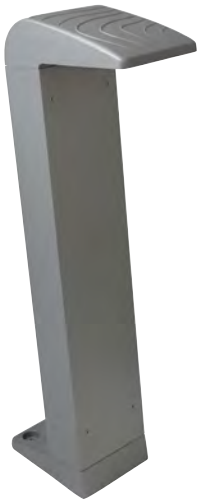

Urbino Bollard

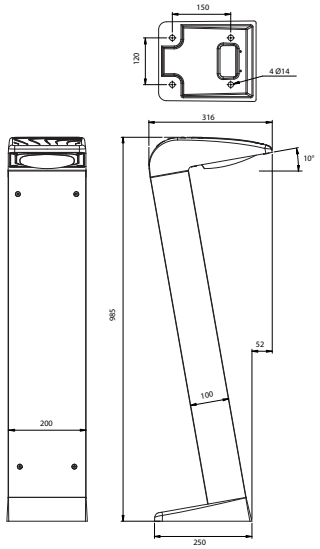
LIGHTING BOLLARD

TREK / TAIGA

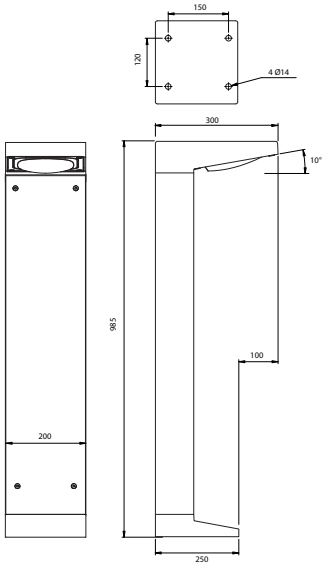
RoHS | IP 66 | IK 10

TREK





TAIGA



DESCRIPTION: TREK / TAIGA

- Lighting head and module in die-cast aluminium
- Aluminium profile 200 x 100mm tube
- Polycarbonate bowl
- Polyester powder coating, any colour available
- IP66 Module
- IK10
- Class I or II
- Weight: 23 kg
- ORALENS Mono lenses, EAH distribution
- BLS strip
- Colour temperatures: 4000 K and 3000K
- Total power consumption: 19 W

CITIZEN REFERENCE POINTS: TREK / TAIGA

- Materials used: Steel 56%, Aluminium 39%, Plastic 2%, Other 3%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

INSTALLATION: TREK / TAIGA

- Cast iron base
- Internal fixing using 4 anchor rods, Ø 12 mm

MAINTENANCE: TREK / TAIGA

- Removable lighting head
- Access to the equipment after removal of the profiled tube

	TREK / TAIGA
POLEDRIVE (set in the bottom of the pole)	o
Dimming 5 (preset)	o
DALI (preset)	o
FC	Compatible with standard version, Dimming 5 or DALI option

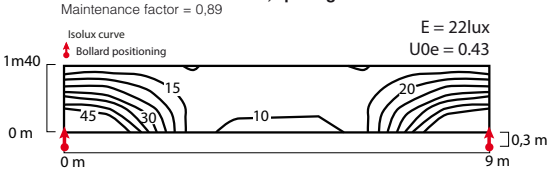
Glossary:

● Standard o Option – Not available

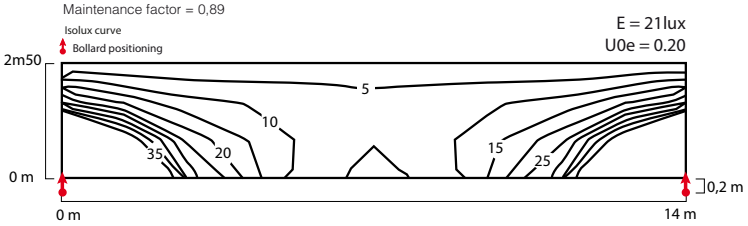
EAH: Dedicated LED module for accessibility of disabled persons (PMR), **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS: TREK / TAIGA

Standard road: width 1.40m, spacing 9 m P = 10W
Maintenance factor = 0,89



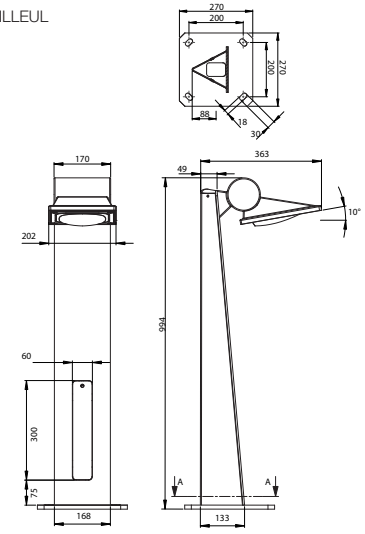
Very wide road: width 2.50m, spacing 14m P = 17W
Maintenance factor = 0,89



ZESTO / PIXEL

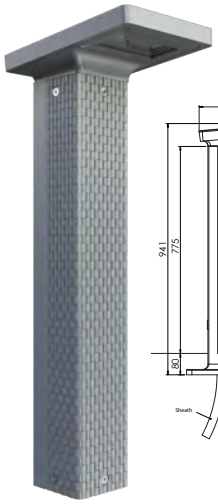
ZESTO

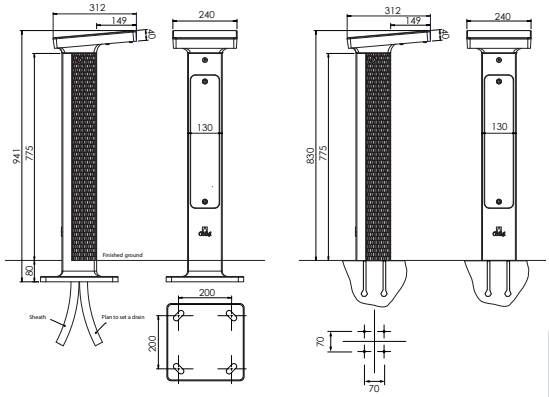
Design: Jean-Baptiste DUTHILLEUL



PIXEL

Design: Stoa Architecture





DESCRIPTION

- Lighting head and module in die-cast aluminium
- Assembly mechanically welded in galvanised steel
- Polycarbonate bowl
- Polyester powder coating, any colour available
- IP66 Module / IK10 / Class I or II / Weight: 19 kg
- ORALENS Mono lenses, EAH distribution
- BLS strip
- Colour temperatures: 4000 K and 3000K

CITIZEN REFERENCE POINTS

- Materials used: Steel 56%, Aluminium 39%, Plastic 2%, Other 3%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

INSTALLATION

- Cast iron base
- Internal fixing using 4 anchor rods, Ø 12 mm

MAINTENANCE

- Removable lighting head
- Access to mains power cabinet after opening the door screw

	ZESTO
POLEDRIVE (set in the bottom of the bollard)	o*
Dimming 5 (preset)	o
DALI (preset)	o
FC	Compatible with standard version, Dimming 5 or DALI option

*Only available in class II

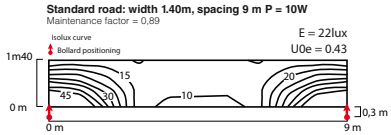
Glossary:

● Standard o Option – Not available

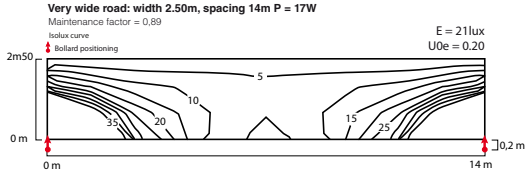
EAH: Dedicated LED module for accessibility of disabled persons (PMR), **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

Standard road: width 1.40m, spacing 9 m P = 10W
Maintenance factor = 0,89



Very wide road: width 2.50m, spacing 14m P = 17W
Maintenance factor = 0,89



DESCRIPTION

- Lighting head and module in die-cast aluminium
- Metalized cast iron bollard
- Glass Bowl
- Polyester powder coating, any colour available
- IP66 Module / IK10 / Class I or II
- ORALENS Mono lenses, EAH distribution
- BLS strip
- Colour temperatures: 4000 K and 3000K

CITIZEN REFERENCE POINTS

- Materials used: Steel%, Aluminium%, Plastic%, Other%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

INSTALLATION

- Cast iron base plate with center distance 200 x 200mm, or center distance 70 x 70mm with chemical compound

	PIXEL
POLEDRIVE (set in the bottom of the bollard)	o
Dimming 5 (preset)	o
DALI (preset)	o
FC	Compatible with standard version, Dimming 5 or DALI option

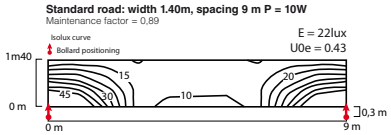
Glossary:

● Standard o Option – Not available

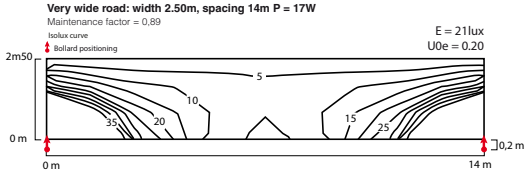
EAH: Dedicated LED module for accessibility of disabled persons (PMR), **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

PHOTOMETRIC DISTRIBUTIONS

Standard road: width 1.40m, spacing 9 m P = 10W
Maintenance factor = 0,89



Very wide road: width 2.50m, spacing 14m P = 17W
Maintenance factor = 0,89

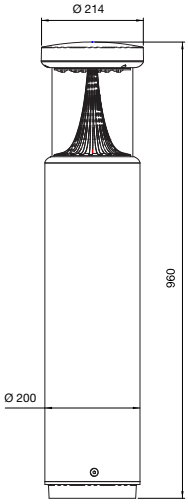


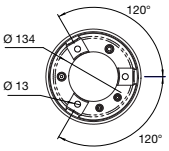
LIGHTING BOLLARD

TEAM by ECLATEC / CADIX

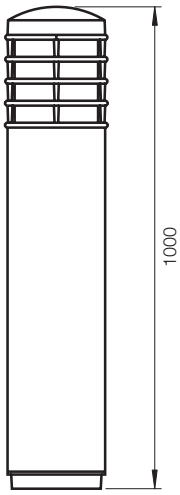
RoHS | IP 66

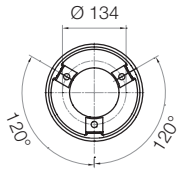
TEAM





CADIX LED





DESCRIPTION

- Aluminium profile 200 mm tube
- Die-cast aluminium cap
- Polycarbonate bowl
- Polyester powder coating finish, choice of colours
- IP66 Module / IK10 - 60 joules / Class I or II
- Weight: 14,2 kg
- **ORALENS** mono lenses, ECL and EAH distribution
- Specific LED source
- Colour temperatures: 4000K and 3000K

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 60%, Steel 28%, Plastic 7%, Other 5%
- Complies with the RoHS directive
- ULR<1%
- High recyclability rate

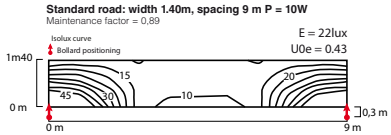
INSTALLATION

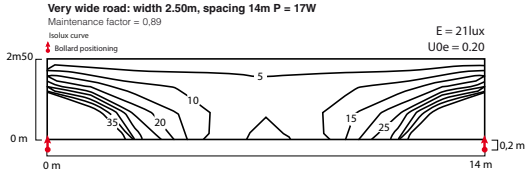
- Cast iron base
- Internal fixing using 3 anchor rods, Ø 12 mm on Ø 134 mm

MAINTENANCE

- Access to the LED module and equipment by removal of the profiled tube

PHOTOMETRIC DISTRIBUTIONS





DESCRIPTION

- Lit bollard
- Tube in aluminium profile, Ø 200mm
- Die cast aluminium cap
- Polyester powder coating, any colour available
- Silicone gasket
- IK07
- Class I or II
- Aluminium cooling system
- Control gear integrated on a removable tray
- IP66 module
- Colour temperature: 4000 K
- Total power consumption: 13 W

INSTALLATION

- Cast iron bottom
- Internal fixation with 3 anchor bolts, Ø 12 mm sur Ø 134 mm

	TEAM
POLEDRIVE (set in the bottom of the pole)	o
Dimming 5 (preset)	o
DALI (preset)	o
FC	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option – Not available

EAH: Dedicated LED module for accessibility of disabled persons (PMR), **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

FLORE / URBINO

FLORE LED

Design: Françoise PERSOUYRE

DESCRIPTION

- Cast iron lighting bollard
- Height: 866 mm
- Top diameter: 210 mm
- Bottom diameter: 225 mm
- Class I, Class II on request
- IP66 module
- Colour temperature: 4000 K
- Total power consumption: 46 W

INSTALLATION

- 3 anchor bolts Ø 10mm x 150mm x Ø 120mm

URBINO LED

Design: Jean-Michel WILMOTTE

DESCRIPTION

- Cast iron lighting bollard
- PMMA diffuser
- Height: 600 or 750 mm
- Diameter: 325 mm
- Class I, Class II on request
- IP66 module
- Colour temperature: 4000 K
- Total power consumption: 10 W

INSTALLATION

- 3 anchor bolts Ø 14mm x 150mm x Ø 190mm

UNIVERSO COLUMNS

Design: Eclatec

The ECLATEC **UNIVERSO** columns combine a wide range of functionality with a unique support.

Multi-modes par excellence, these columns simultaneously offer an extended choice of classic functions (lighting, projectors, loudspeakers); they also meet very modern needs such as WIFI transmission, installation of surveillance cameras and recharging stations for electric vehicles.

Thanks to their modular assembly, it becomes possible to configure the **UNIVERSO** column that meets the strictest of site requirements, by optimising power supply constraints, connection work and space.

UNIVERSO COLUMN

UNIVERSO COLUMN

DESCRIPTION

- Diameter 200 mm, height from 2.7 to 6 m
- Foot in hot galvanised cast iron (400x400 mm, bolt centres 300x300 mm, 4 JT-M18*400 mm), black paint as an option (see GHM functional lighting catalogue)
- Base: Aluminium, diameter 200mm, finish polyester thermos-lacquer, choice of colours
- All module can be oriented 360° in 30° steps on mounting
- Complies with the RoHS directive, High recyclability rate
- Class I
- Protection up to 10 kV
- **Study and implementation of the IP network is customers responsability. Eclatec can supply the full documentation to allow the study**

MODULES

Road and pedestrian lighting

Road, pedestrian and projector lighting

Lateral mechanical interface for additional lighting

SMART CONTROL module

WLAN-WIFI

Camera

Loudspeaker

Recharge station for electric vehicles

RoHS | IP 66 | IK 10 | ≤1% 0°5° ULR | COLONNE UNIVERSO : 2,7-6 m

CONNECTIVITY AND INTERACTIVITY:

> WLAN - WIFI

- WLAN network (local wireless) with shared Internet and WIFI protocol
- Grey polycarbonate dedicated module on the top of the column
- High speed 100Mbps
- Range approx.. 100m
- Divisible passband for usage dedicated to the public and one for the town.

> USB

- USB connection available as an option for USB phone driver

PREVENTION, PROTECTION AND SECURITY: CAMERA

- Video monitoring by Web browser, day and night, discrete design
- Dedicated module with transparent bowl in polycarbonate, IP66, IK10
- SNB-6010B Samsung camera compatible with Open Network viddeo interface forum protocol and then compatible with major security systems
- Full HD resolution 1920x1080, digital zoom, image quality optimisation
- Display from a control station, simultaneous display of videos in different resolutions and qualities (up to 15 users)
- Possible functions:
  - Movement detection: in a selected area, with traffic direction (vehicles).
  - Face detection.
  - Onsite recording possible (on SD cards).
  - Alarms: when an event occurs, an image is sent to the registered e-mail address or stored on the SD micro card, or a signal is sent to the alarm (audio output).
- Onsite adjustment of the inclination

COMMUNICATION AND INFORMATION: LOUDSPEAKER

- Distribution of recorded sound. Camera alarms, messages from a control station
- Compatible with analogue technology

MOBILITY: RECHARGE STATION FOR ELECTRIC VEHICLES

- Can be integrated into the foot of the column
- European type 2 socket
- Mode 3 recharge stations:
  - 16A: 4kW recharge power in single phase or 11kW in 3-phase
  - 32A: 7kW recharge power in single phase or 22kW in 3-phase
- Centralised management: RFID user identification, optional energy measurement
- Only compatible with Lighting modules.

LIGHTING

> ROAD AND PEDESTRIAN LIGHTING

APPLICATIONS:

- Urban streets, pedestrians, residential, cycle paths, pedestrian squares and parks, car-parks
- Recommended heights: up to 6 m

DESCRIPTION:

- Injection die-cast aluminium body
- Bowl in transparent polycarbonate
- IP66, IK10
- Specific 18 LED module equipped with a PMMA single lens.
- Colour temperature: 4000 K and 3000 K
- 3 photometric distributions: ERS and ERL asymmetric road optics, ECL circular symmetric optic
- ULR<1%
- Power adjustable up to 38W
- Max. Flux 4687lm
- Options available: Dimming 5, DALI, 1-10V, FC

> ROAD, PEDESTRIAN AND PROJECTOR LIGHTING

APPLICATIONS:

- Urban streets, pedestrians, residential, cycle paths, pedestrian squares and parks, car-parks
- Projectors, emphasising
- Recommended heights: up to 6 m

DESCRIPTION:

- Injection die-cast aluminium body
- Bowl in transparent polycarbonate
- IP66, IK10
- Colour temperature: 4000 K and 3000 K
- 3 photometric distributions: ERS road asymmetric optic, PFI and PFM intensive and semi-intensive beam projection
- Onsite adjustment of the inclination angle

> ADDITIONAL LIGHTING

- Lateral attachment diameter 60mm for the addition of a luminaire for all lighting types.

SMART CONTROL

STAND-ALONE SOLUTIONS

- DALI Module dimming controller option: CA2P

  The CA2P functionality reduces the power during a certain time span during the night
  The two lighting levels and the duration of the reduction can be modified onsite, by simply setting the rotating knobs on a module controlled by the DALI protocol, accessible at the foot of the column.

  This patented device, of ECLATEC design and made in France, can control up to two luminaires.

- DALI Module adjustable current option: REP

  This same CA2P control module also has REP functionality which allows adjustment of the control current and therefore the power of the luminaire in a range from 10% to 100%.

- Dimming calculator option: Dimming 5

  The Dimming 5 calculator option adjusts the power during 5 defined time slots. It requires factory programming of the electronic power supply of the luminaire.

- DALI presence detector remote from the luminaire: Motion P

  The detection system allows switching from a low level of lighting to a high level when a pedestrian or cyclist is detected. Detection can also be combined with night-time reduction.

  The power levels and duration of the high setting can be modified onsite by simple mechanical adjustment of the DALI control module at the foot of the column.

LOCAL NETWORK GROUPED SOLUTION

- This functionality couples the signal received from a movement sensor to the control of a group of LED columns, independent from each other, by a wireless connection. Different configurations of switching on and light levels can therefore be configured, ensuring an optimum comfort level, akin to a “train of light” and providing significant energy savings.

  All parameters can be modified onsite with a PC and without having to access the nacelle. This system can evolve to a remote-managed solution with the addition of a gateway.

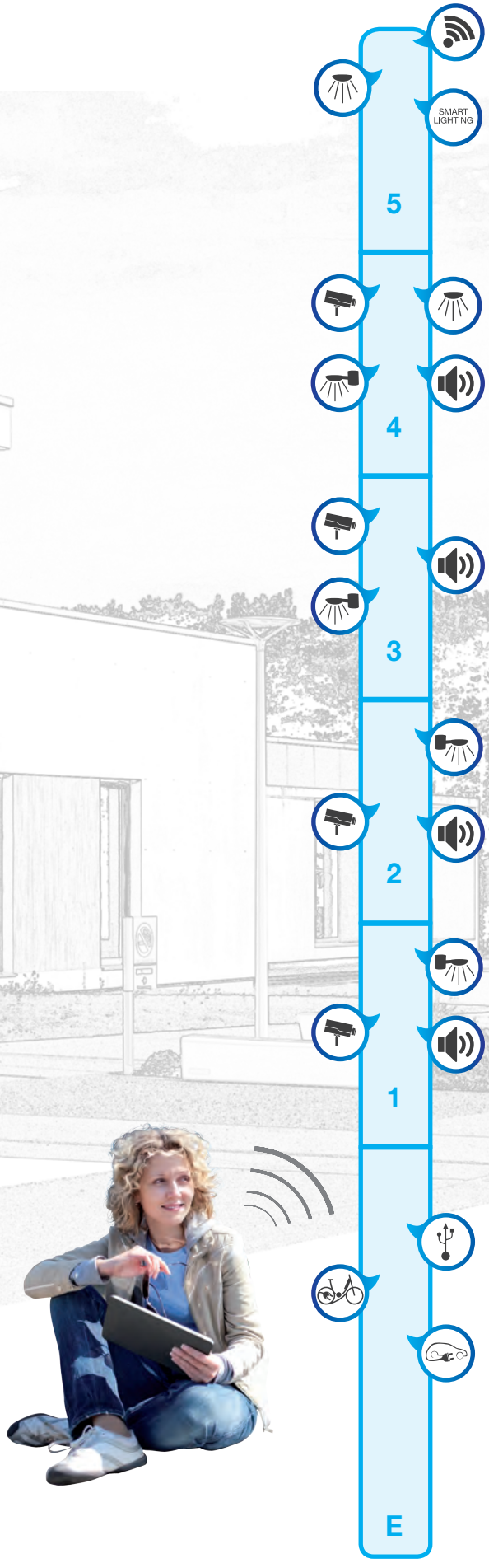
REMOTE-MANAGED SOLUTION

- This remote-management system improves the quality and reliability of the lighting network using a Web interface.

  The bidirectional communication of this interface allows, on one hand, control of the lighting network (intensities, reduction periods, etc.) and, on the other, optimisation of its management (feedback of power consumed, number of operating hours, failures, etc.).

UNIVERSO COLUMN

		POSITIONING					
		E	1	2	3	4	5
LIGHTING	Road and pedestrian lighting	-	-	-	-	o	o
	Road, pedestrian and projector lighting	-	-	-	-	o	o
	Lateral mechanical interface	-	o	o	o	o	-
SMART CONTROL	SMART CONTROL module	-	-	-	-	-	o
FUNCTIONALITIES OTHER THAN LIGHTING	Wlan - WIFI	-	-	-	-	-	o
	Camera	-	o	o	o	o	-
	Loudspeaker	-	o	o	o	o	-
	Recharge station for electric vehicles	o*	-	-	-	-	-



*Only compatible with the lighting modules.

All modules can be oriented 360° in 30° steps on mounting


10

COLUMNS

AMARANTE & TEASER

Design Columns: Eclatec, GHM

Like a modern totem pole, **AMARANTE** is erected in the heart of meeting places. Minimalist, its volume only imposes a discrete presence on its environment.

Silkscreened versions reinforce its personality when you want to give it a more decorative character.

By night, demonstrating its magical powers, **AMARANTE** comes alive and the spirit of light expands benevolently in the surroundings.

AMARANTE accepts 4 KIDLED modules; whose original mounting device allows you to direct the light where you want.

Lastly, this ease of orienting the light, associated with LED technologies, gives it remarkable energy efficiency.

The **TEASER** light column is characterised by the almost architectural simplicity of its forms. Its steel body can, where appropriate, feature a STRIUM decorative pattern.
Equipped with high-performance LED lighting, it is available in several heights (from 4 to 6 metres).

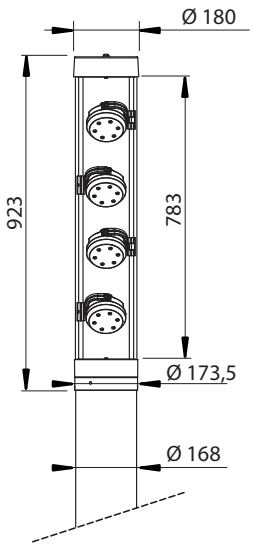
KIDLED MODULE

LED COLUMN

AMARANTE

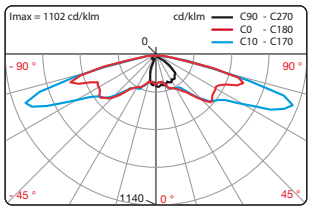
RoHS | IP 66 | IK 10 | AMARANTE LED : 4 m

AMARANTE

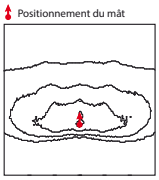


PHOTOMETRIC DISTRIBUTIONS

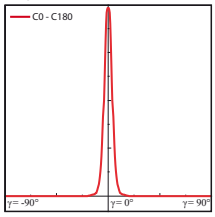
AMARANTE - KIDLED - ERS



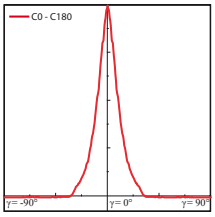
Courbe isolux



AMARANTE - KIDLED - PFI



AMARANTE - KIDLED - PFM



APPLICATIONS

- Mounting: finished product
- Recommended heights: 4 m
- Car parks, parks and gardens, residential lighting

DESCRIPTION

- Polycarbonate or PMMA clear tube, Ø 170mm
- Cylindrical steel pole 3m (total height 4m)
- Die cast aluminium bottom
- Polyester powder coating, any colour available
- IP66
- IK09 (polycarbonate) or IK06 (PMMA)
- Class I or II
- Control gear integrated on removable tray, placed in the base of the luminaire
- Options for direct optics: Screen print for clear polycarbonate or PMMA tube
- **KIDLED** module with **ORALENS**, adjustable (± 40°)
- Colour temperature: 4000 K

CITIZEN REFERENCE POINTS

- Materials used: Aluminium 57%, Steel 24%, Plastic 18%, Other 1%
- Complies with the RoHS directive
- High recyclability rate

WATERPROOFING

- IP66 waterproofing in accordance with the standard EN 60 529
- Silicone gasket on the base

MECHANICAL INTERFACES

- Male bracket fastening luminaire for top fixation
- Tubular pole Ø170mm with flange plate 300x300mm

MAINTENANCE

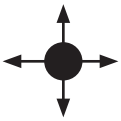
Lighting equipment maintenance

Removing the luminous head with a set screw and quarter-turn system

Source maintenance

Luminous head with removable KIDLED modules

POSITIONNEMENT DES MODULES KIDLED EN SORTIE D'USINE



Configuration 1

Configuration 2

Configuration 3

KEY POINTS

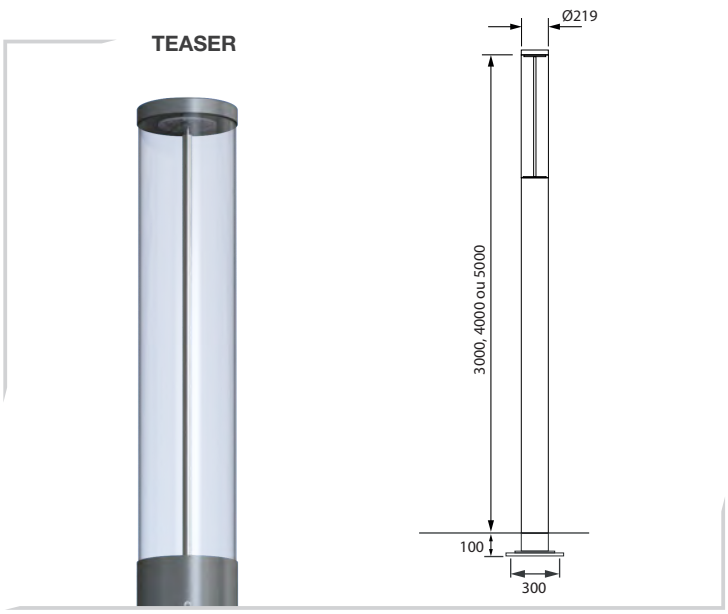
		AMARANTE
Applications		Car parks, parks and gardens, residential lighting
Recommended heights		4 m
Mounting		Finished product. Assembly to be sealed with connection box
Dimensions	**Ø** **height**	180 mm 923 mm
Weight		72 kg
Windage area		0,56 m²
Sources		**4 KIDLED**
Sources access		Access to the equipment by removal of the luminous head. Removable **KIDLED** modules
Optics and light distribution options		ERS, PFI, PFM
OPTIONS	**Courant ajustable**	o
	POLEDRIVE (set in the bottom of the pole)	o
	Dimming 5 (preset)	o
	Motion (setting on site)	-
	Motion P (set in the bottom of the pole)	o
	Motion DALI (set in the bottom of the pole)	-
	Motion 5 (preset)	-
	DALI (preset)	o
	FC (preset)	Compatible with standard version, Dimming 5 or DALI option

Glossary:

● Standard o Option - Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **FC:** Compensated flux

TEASER



APPLICATIONS

- Mounting: finished product
- Recommended heights: 3, 4 and 5 m
- Car parks, parks and gardens, residential lighting

DESCRIPTION

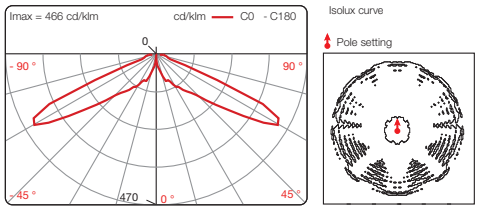
- Body in painted galvanised steel
- Head in aluminium
- Polycarbonate bowl IK09
- Class I
- IP65
- LED sources as standard
- Colour temperature: 4000 K

MECHANICAL INTERFACES

- Male bracket fastening luminaire for top fixation
- Tubular pole Ø200mm with flange plate 300x300mm

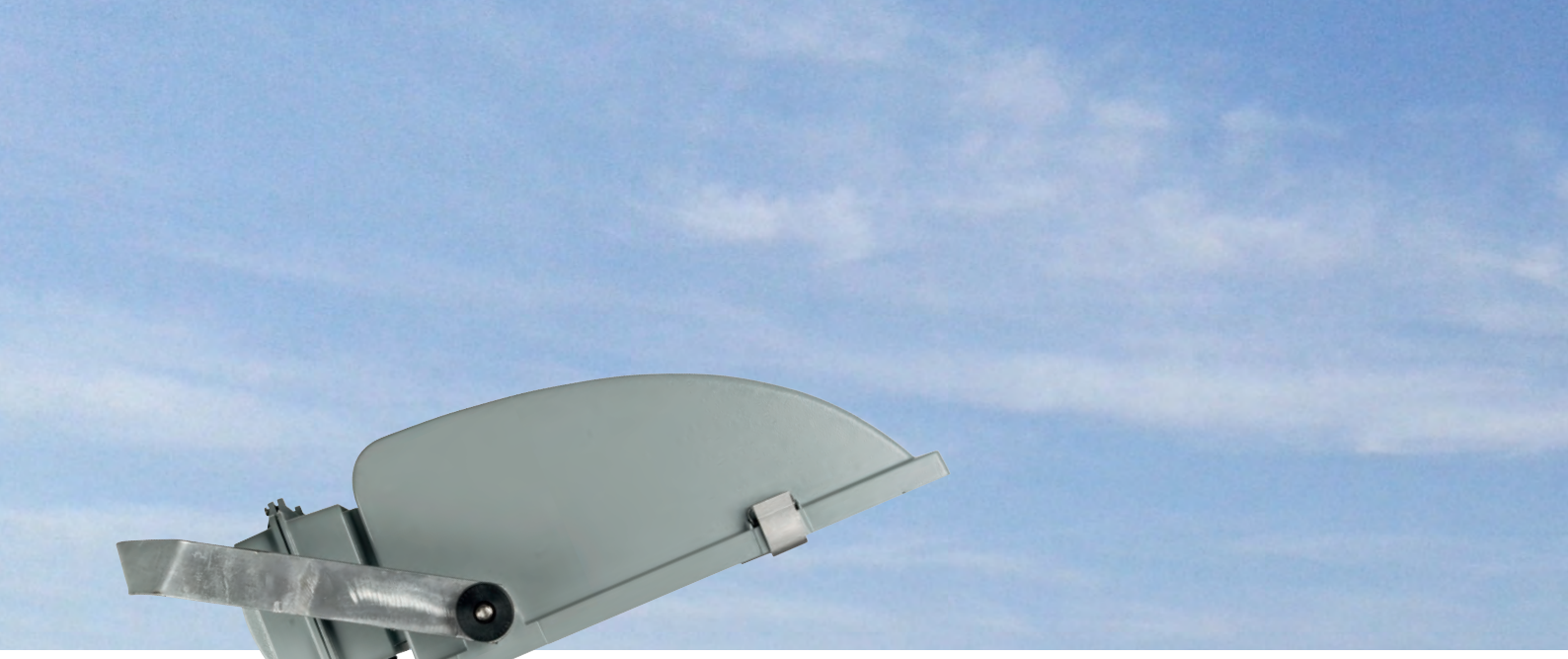
PHOTOMETRIC DISTRIBUTIONS

TEASER



Isolux curve

ECLATEC



FLOODLIGHTS

Design floodlights: Eclatec

ASTRIS Floodlight

This functional, asymmetrical floodlight is available in 2 sizes. The line covers several power ranges, from 250 Watts to 2 times 600 Watts.

The body of the floodlight and the separate compartment for the equipment are made from injected, polyester powder-coated aluminium.

This luminaire can be disassembled without tools.

STELIS Floodlight

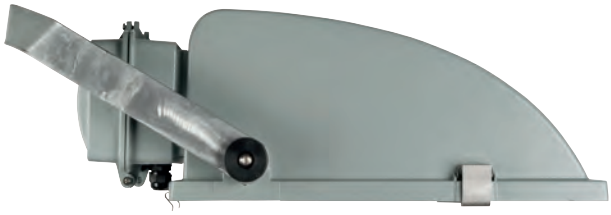
Designed for high lighting, and sports lighting in particular, the STELIS asymmetrical floodlight boasts remarkable optical performance.

The company's range of posts, ladders, walkways, battens and mobile headframes logically incorporates these floodlights. This range provides an effective compromise, meeting the photometric expectations of the contexts envisaged and complying with complex regulations.

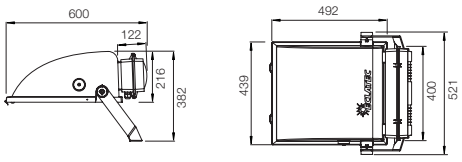
ASTRIS

RoHS | IP 65 | IK 08 | <3% 0°5° ULOR | ASTRIS S1 : 8-12 m | ASTRIS S2, S3 : 10-15 m

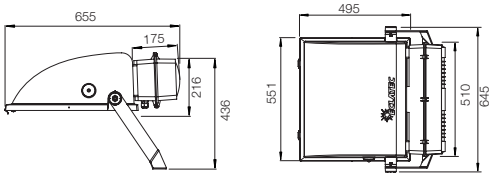
ASTRIS



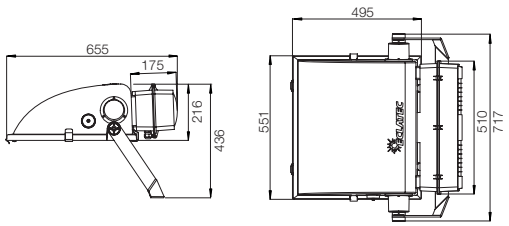
ASTRIS AS1



ASTRIS AS2



ASTRIS AS3

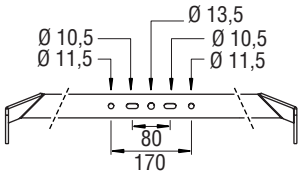


		ASTRIS S1	ASTRIS S2	ASTRIS S3
Mounting		U-bracket fixation		
Dimensions	**Length** **Width** **Height**	600 mm 439 mm 382 mm	655 mm 551 mm 436 mm	655 mm 717 mm 436 mm
Weight		15,5 kg	23 kg	23,5 kg
Windage area		0,09 m²	0,10 m²	0,10 m²

Type	HPS	M.H.
Astris S1	250 W (E40)	250 W (E40)
	400 W (E40)	400 W (E40)
	600 W (E40)	/
Astris S2	1000 W (E40)	1000 W (E40)
Astris S3	2 x 250 W (E40)	2 x 250 W (E40)
	2 x 400 W (E40)	2 x 400 W (E40)
	2 x 600 W (E40)	/

- 3 models: Astris AS1, Astris AS2 and Astris AS3
- Body and frame in injected die-cast aluminium
- Screen printed flat thermally toughened glass, articulated and locked by stainless steel latches
- Galvanised steel stirrup bracket with angle marking
- Polyester powder coating: standard colour: RAL 7035
- High temperature extruded silicone gasket
- Carbon filter
- Breathing system
- IP65
- IK08
- Class I
- Connection to 1 or 2 cable gland Ø 13 mm
- Assymetric reflector in polished, anodised aluminium
- Control gear integrated on a removable tray
- Luminaire open without tools

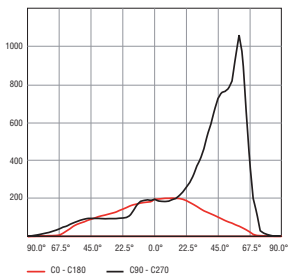
MECHANICAL INTERFACES



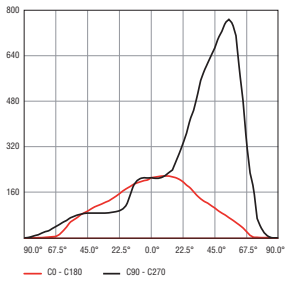
- Floodlight mounted on a galvanised steel stirrup bracket

PHOTOMETRIC DISTRIBUTIONS

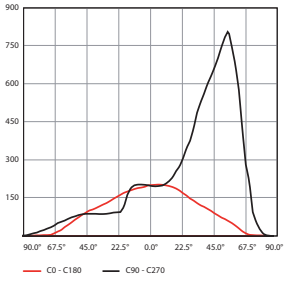
ASTRIS AS2 1000 W M.H. E40 intensive
I max = 1062 cd/klm



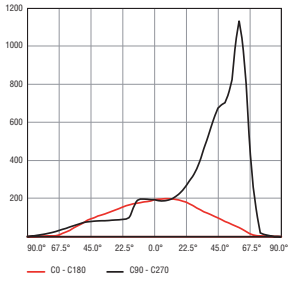
ASTRIS AS2 1000 W M.H. E40 extensive
I max = 1136 cd/klm



ASTRIS AS2 1000 W HPS extensive
I max = 822 cd/klm

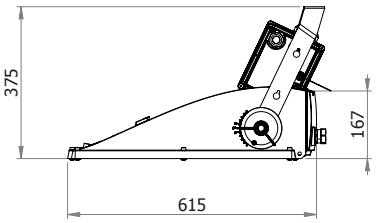


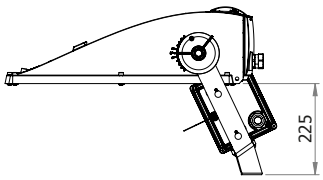
ASTRIS AS2 1000 W HPS intensive
I max = 768 cd/klm

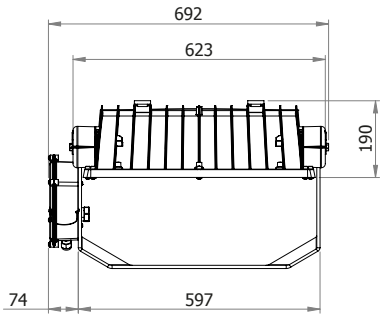


STELIS

STELIS







APPLICATIONS

- Sports installations, carparks, logistics platforms, road interchanges, toll booths

DESCRIPTIF

- Injection die-cast aluminium body
- Flat bowl in thermally tempered glass – IK10
- Closing cams in stainless steel
- Attachment arch in galvanized steel
- Shock-absorbing box in cast aluminium offset on the arch
- Reflector in high-purity pre-anodised aluminium
- Metallic iodine lamp OSRAM 2000 W long arc, 1000/2000 W short arc
- The central element of ECLATEC solutions related to high altitude (poles, ladders, landings, lifelines, battens, fixed or mobile crowns, gangways, access, etc.)
- Body: high temperature black paint
- Separate control gear on a remote tray in the bottom of the pole or in a cabinet

CITIZEN REFERENCE POINTS

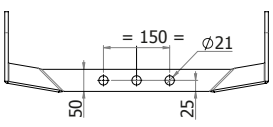
- Materials used: Aluminium: 90%, Steel: 5%, Glass: 3% , Other: 2%
- Complies with the RoHS directive

WATERPROOFING

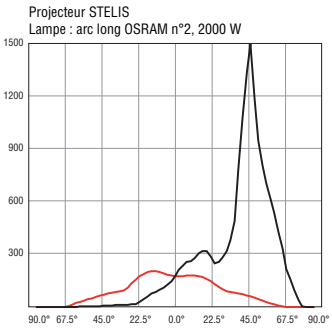
- IP66 waterproofing in accordance with the standard EN 60 529
- Extruded silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

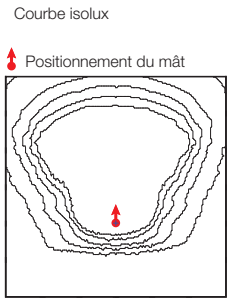
MECHANICAL INTERFACES

- Mounting of the arch on the batten from above or below
- Adjustment of the inclination with graduated marks on the body
- Possibility of using an inclination gauge



PHOTOMETRIC DISTRIBUTIONS





KEY POINTS

		STELIS
Applications		Sports installations, carparks, logistics platforms, road interchanges, toll booths
Recommended heights		From 18 m
Mounting		Arch
Dimensions	**Length** **Width** **Height**	615 mm 623 mm 190 mm
Weight		18 kg
Windage area		0,13 m²

MAINTENANCE

Maintenance of the equipment and sources :
Lamp compartment opening without tools (2 latches)

Lamp access:
Automatic electrical disconnection on opening

ECLATEC

SOLAR SOLUTIONS

SUNPOLE S

Design: Eclatec

The simplicity of SUNPOLE S solar solutions comes from the combination of technologies in constant progress:
- the LED sources, which provide the indispensable efficiency
- the control systems (reduction by time slots, detection), optimising the power consumed
- efficient solar panels
- high-performance LITHIUM batteries, protected in a cast aluminium housing

The installation study conducted in collaboration with ECLATEC defines the flux and autonomy depending on the installation site.

Installing a SUNPOLE S solution is obviously interesting when connection to the power network involves excessive difficulty; in this situation, SUNPOLE S solutions are perfectly suited to the lighting of particularly isolated places (bus stops, cemeteries, rest and transit areas, etc.).

SOLAR PANELS

LED LUMINAIRES

SUNPOLE S

SUNPOLE S

APPLICATION

Solutions complementary to “traditional” lighting offerings for applications, in general, that are isolated from the network: school bus pick-up points in remote areas, car-sharing areas, dumps, cemeteries, motorway and leisure rest areas, military applications, certain configurations of residential areas (plots, hamlets, etc.)

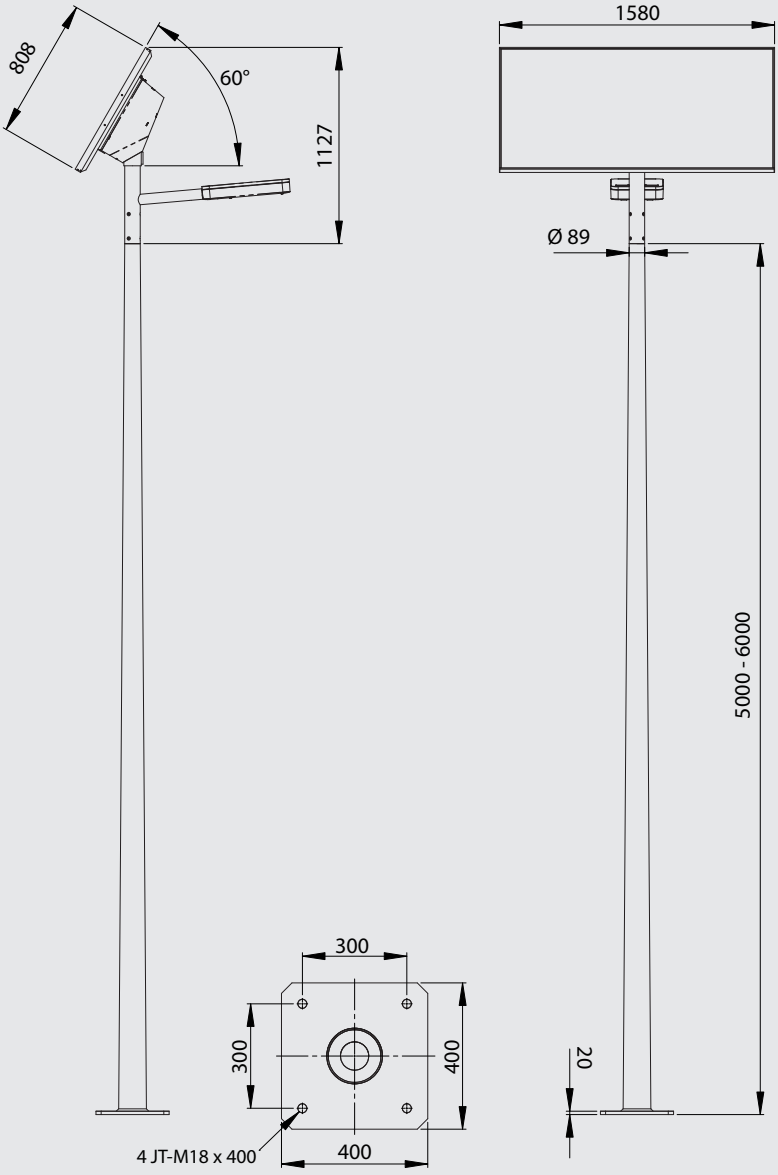
DESCRIPTION

This stand-alone solar solution consists of two units:

- A mono-crystalline panel, attached to an IP66 aluminium compartment, in a choice of colours, containing a Lithium battery and control and management systems also operating on Bluetooth. Opening of the compartment assisted by two cylinders.
- The ECLATEC 12 V LED GHM luminaires.

INSTALLATION

Pole: Cylindrical/conical diameter 89mm in galvanised steel, heights 5 and 6 m, without door, 20 mm thick foot.
Fixed panel inclination (2 models available: 60° for Metropolitan France; 15° for the DOM-TOM)



SOLAR PANEL

- Mono-crystalline solar panel 24V/190W peak: 190W production under standard test conditions (1000 W/m², 25°C)
- High sensitivity to the entire solar spectrum and high output in low light
- High-voltage safety protection provided by:
  - An advanced EVA (Ethylene-Vinyl Acetate) encapsulation with three-layer lower face
  - A multifunction connection box, waterproof and sealed
- Robust frame in anodised aluminium
- High-transmission tempered glass, high resistance to impacts
- Weight: 14,5 kg
- Dimensions: height 1580mm, width 808 mm, thickness 35 mm
- 72 cells wired in series, No-load voltage Uoc: 43.20 V, Short-circuit current Isc: 5.98 A

BATTERY

- Lithium (LiFePO4)
- Nominal voltage: 12.8V
- Nominal capacity: 60Ah or 90Ah versions
- Energy storage: 768Wh for a 60Ah battery, 1152Wh for a 90Ah battery
- Operating temperature range: -20°C to +50°C
- Battery includes load balancing and temperature and voltage control
- Maintenance-free
- Life expectancy: 10 years, equivalent to about 3600 cycles

- The advantages of lithium batteries compared to lead batteries are:
  - More robust: premature failure of lead batteries due to sulphation if the battery is rarely or never fully charged or discharged
- Wide operating temperature range
- High efficient 92% v. ≈ 50%

BATTERY MANAGEMENT SYSTEM

- The BMS (Battery Management System) Bus protects the battery against over-voltage, under-voltage and cell overheating:
  - by stopping or disconnecting the load in the case of imminent under-voltage,
  - by reducing the charge current in the case of imminent over-voltage or overheating,

CHARGE CONTROLLER

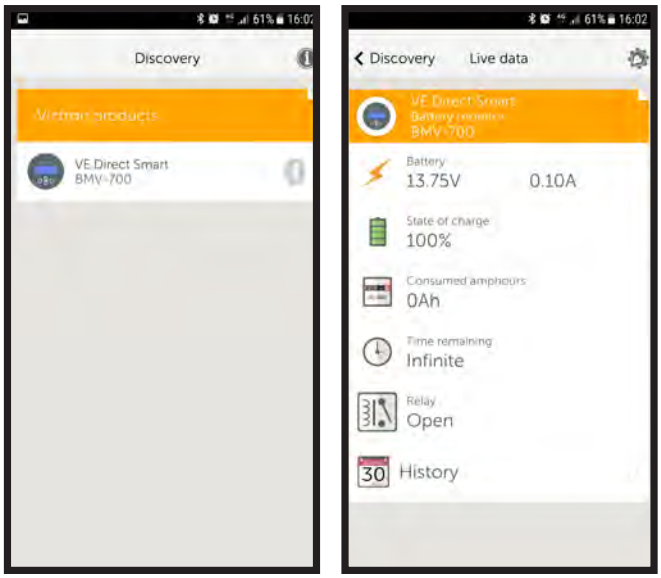
- The MPPT charge controller intelligently manages the battery charging by controlling the voltage and current to optimise charge efficiency (algorithm for controlling the charge status and ultra-rapid maximum power point location (MPPT - Maximum Power Point Tracking)).
- Better charge efficiency than PWM.

HIGH-PRECISION BATTERY CONTROLLER

- This controller displays the voltage, the current and the amp-hours consumed, the charge status, the remaining autonomy and the consumption in Watts.

BLUETOOTH CONNECTION

- These controllers allow the batteries to be monitored from Apple and Android Smartphones, tablets, MacBooks and other Bluetooth devices.



LED LUMINAIRES

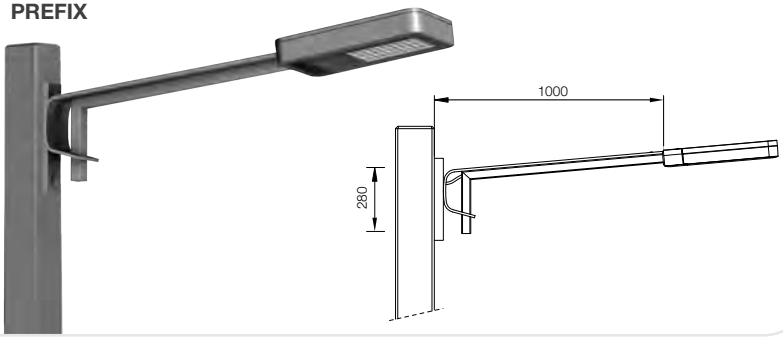
- This stand-alone assembly is optimised for the use of ECLATEC GHM LED luminaires.

- Example autonomy for a LED luminaire consuming 20W:
  - Without night-time reduction and with the 60Ah battery, the autonomy is about 35h (without recharging)
  - Without night-time reduction and with the 90Ah battery, the autonomy is about 50h (without recharging)
  - By programming a night-time reduction, it is possible to double the above durations.

- This autonomy can be further extended by using presence detection, either communicating or associated with night-time reduction.

FASTENING PLATES FOR CONCRETE POLES

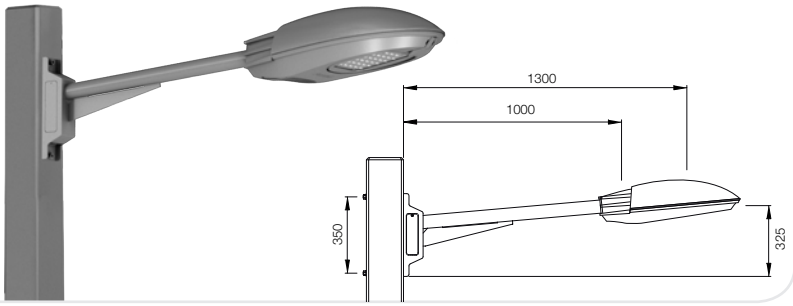
PREFIX



DESCRIPTION PREFIX

- Luminaire holder with integrated control gear for concrete poles drilled Ø 18mm or wall-mounting
- Galvanised steel fitting
- Outreach 800 mm, 1000 mm and 1200 mm
- Tilts: 5 and 10°
- Luminaire holder with integrated control gear
- Plate fastening: 2 holes Ø 16mm, distance between centres 280mm and tie-rods Ø 14mm

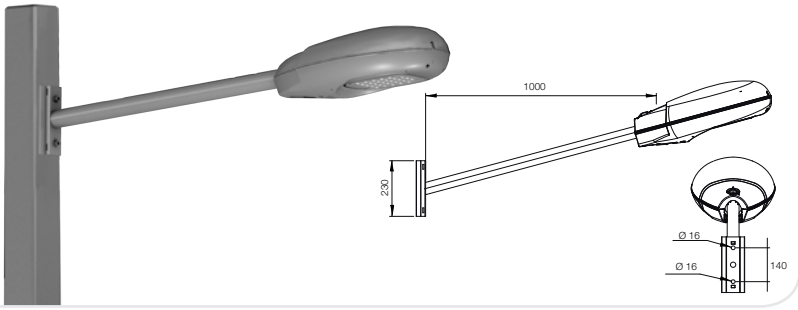
SUFFIX



DESCRIPTION SUFFIX

- Luminaire holder with integrated control gear for concrete poles drilled Ø 18mm or wall-mounting
- Galvanised steel fitting
- Luminaire holder with integrated control gear
- Outreach 800 mm, 1000 mm and 1200 mm
- Tilts: 5 and 10°
- For side entry mounting
- Plate fastening: 2 holes Ø 16mm, distance between centres 350mm

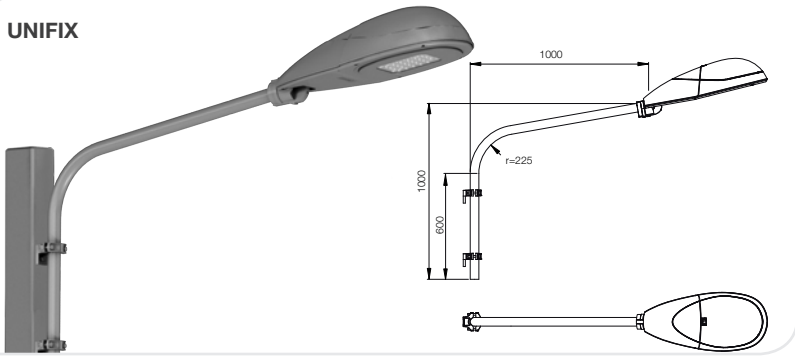
APPLIFIX



DESCRIPTION APPLIFIX

- Integrated bracket-fastening plate in galvanised steel Ø 49mm and Ø 60mm
- Outreach 500 mm and 1000 mm
- Tilt: 5°
- For side entry mounting
- Plate fastening: 2 holes Ø 16mm, distance between centres 140mm, or by sheet

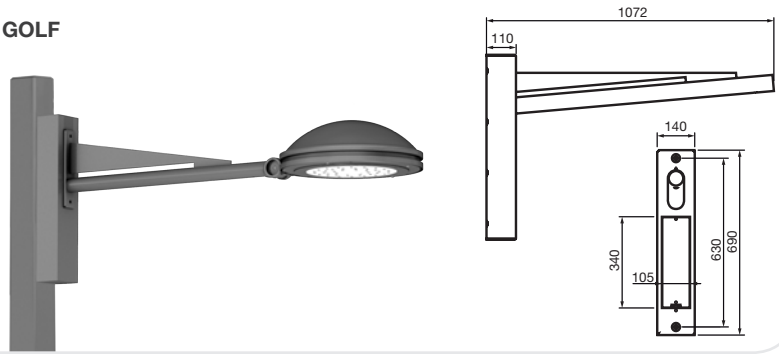
UNIFIX



DESCRIPTION UNIFIX

- For all public lighting luminaires, adapting bracket for all types of poles, wood, concrete, walls etc
- Outreach 1000 mm and 1500 mm
- Tilt: 5°
- Azimuth angle marking
- Bracket in galvanised steel Ø 49 mm and Ø 60 mm
- For side entry mounting
- Two attachments Ø 49 mm and Ø 60 mm in galvanised steel for the EP console including 1 with cabinet

GOLF

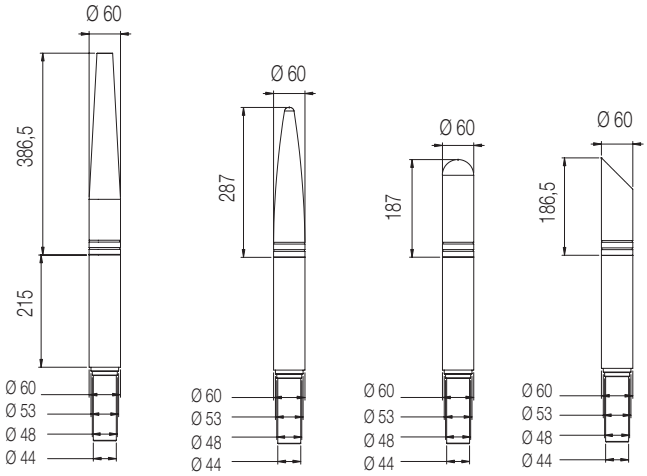


DESCRIPTION GOLF

- Luminaire holder with integrated control gear for concrete poles drilled Ø 18mm or wall-mounting
- Galvanised steel fitting
- Luminaire holder with integrated control gear
- Outreach 500 mm, 800 mm,1000 mm and 1500 mm
- Tilt: 5°
- For side entry mounting
- Plate fastening: 2 holes Ø 16mm, distance between centres 630mm and tie-rods Ø 14mm

COLUMN FINIALS

LUMINOUS column finials - Shown lit



DESCRIPTION

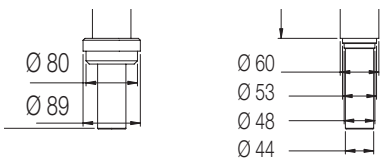
- 4 models available: point 600, point 500, rounded, bevelled
- Aluminium alloy body
- PMMA Transparent end-piece screwed on the fitting
- Polyester powder coating, any colour available
- IP66
- 1 LED power 1W at 350mA (white, blue, red, green)
- Power supply 230 V
- Wired with cable HO7RNF - 3G 1,5² - 13m

WATERPROOFING

- O-ring
- Cable gland with anchoring device

MECHANICAL INTERFACES

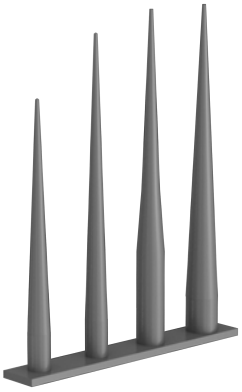
- Fixation on pole Ø 60/62mm and Ø 89mm

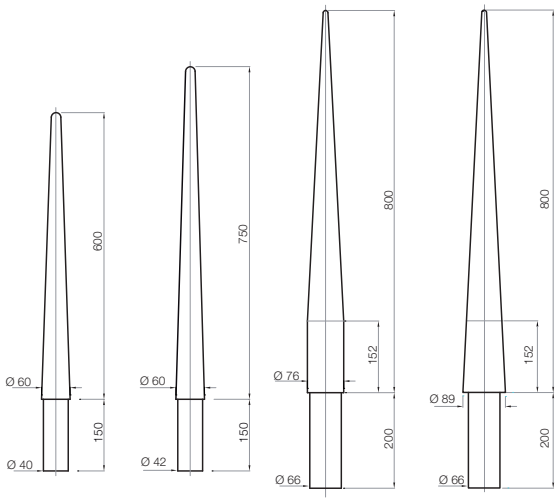


MAINTENANCE

- Unscrew the translucid tip
- Access to the LED

ALUMINIUM column finials





DESCRIPTION

- 4 models available
- Cast aluminium body
- Male bracket fastening
- Fastened by stainless steel screws depending on mounting specifications
- Polyester powder coating

FIXED SOLUTIONS

Floodlight support structures

The supports offered meet resistance and accessibility requirements. They are also adaptable, as the nature, number and direction of the floodlights depends on the context. These supports are the result of extensive analysis, opting for standardisation where possible. They are made from hot-dip galvanised steel and can be adapted to all very high masts.

Walkways

These hot-dip galvanised steel walkways are safe for operators to work on when carrying out maintenance on the floodlights.
Delivered with stainless steel fasteners.

Ladders, lifelines and harnesses

Hot-dip galvanised steel ladders for stable access. Non-slip, evenly-spaced rungs. Rest platforms positioned in accordance with the intervals defined in standard NF EN ISO 14122-4. Access forbidden to unauthorised persons (for this purpose the first rungs are not fixed less than 3 metres from the ground. Removable lower part available as an option).
Delivered in standard elements together with the stainless steel fasteners.
Lifeline, galvanised steel cable, diameter 8 mm, delivered with attachment and tensioning accessories.
Safety harness, lanyard and mobile fall-arrester available as an option.

Floodlight support

Made of hot-dip galvanised steel, compatible with all types of floodlights, the range of supports covers multiple lighting configurations. They are equipped by request with an electrical connection box to connect the floodlights.
Production of specific items for individual projects (shape, number of floodlights, etc.)
Delivered with stainless steel fasteners.

SYSTEMS USING MOBILE SOLUTIONS

Principle of operation

The ECLATEC mobile lighting system allows maintenance of the floodlights to be carried out on the ground. This solution avoids operators having to climb the installation or use lift platforms. The time to carry out the work is therefore reduced and operations are safer and less costly.

This mobile system, **developed and patented by ECLATEC**, encompasses safety, efficiency, reliability and ease of use. It can be adapted to a steel or concrete mast, on new installations or when renovating existing supports. Supports other than masts can be studied (e.g. industrial chimneys, roof structures, etc.).

The structure is moved using a cable and electric winch attached to the foot of the mast. A pulley at the head of the mast connects this winch to the structure. **The structure is held in the raised position by traction on the cable**. The design of the winch (endless screw and pinion) means it cannot run backwards, preventing the structure descending from the mast by gravity. A safety brake built into the structure provides a second safety system. The absence of an interlocking mechanism avoids the risk of jamming which commonly occurs on other systems.

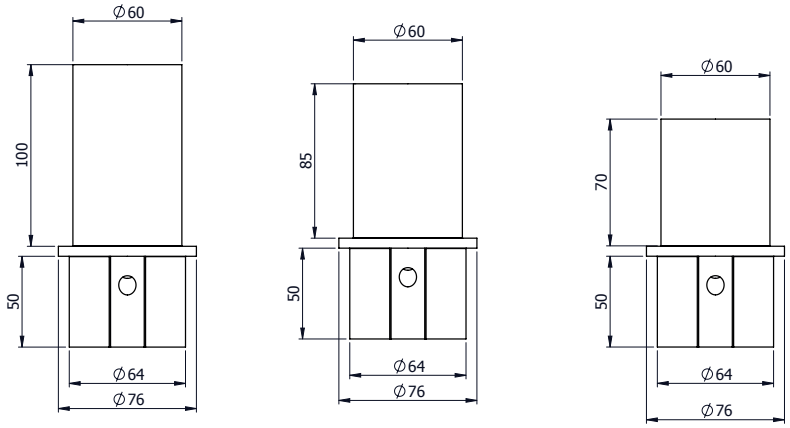
A guide rail **ensures movement is stable**, and manoeuvres can be carried out with wind speeds up to 60 km/h.
The guide rail is made of extruded aluminium in a profile specifically adapted to its function. It is available in two sizes:
- width 100 mm for loads up to 700 kg
- width 200 mm for loads from 700 kg to 2400 kg

The main carriage bearing the supporting structure is fitted with a safety brake with a toothed off-centre cam and a return spring (x2 for loads > 700kg).
This brake acts instantly by direct contact with the guide rail if the cable breaks. If the brake is triggered, this activates an electrical protection (slack wire), preventing any movement.
A torque limiter prevents any risk of tear-out if the system jams while being lifted.
Lifting or lowering the structure is automatically stopped by top and bottom end of travel stops.
The electrical connections use flat cables guided along the rail by cable guide carriages. This design allows the power supply to be maintained to the floodlights during movements and thus avoids the risk of electrical faults encountered on systems with connectors. The operator controls movements in complete safety using a control box linked by an electrical cable which is sufficiently long to be outside the structure's footprint.

Technical Annex

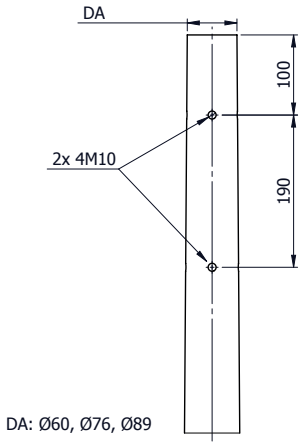
SPIGOT AND FIXATIONS - ECLATEC'S STANDARD

Spigot for pole Ø 76mm



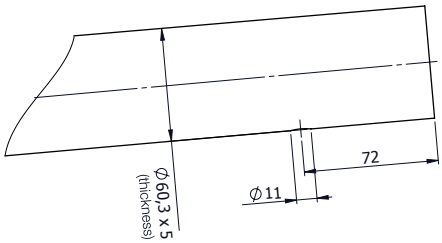
A B C

Standard pole for male fixation Ø 60 mm, Ø 76 mm, Ø 89 mm



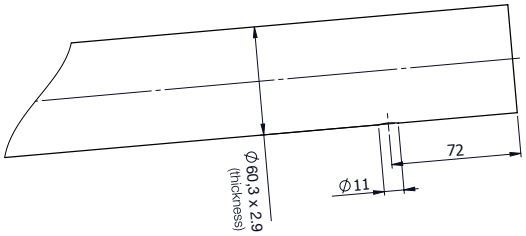
D

Machining for aluminium bracket – Eclatec's standard



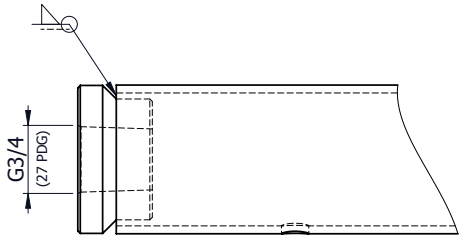
E

Machining for steel bracket - Eclatec's standard



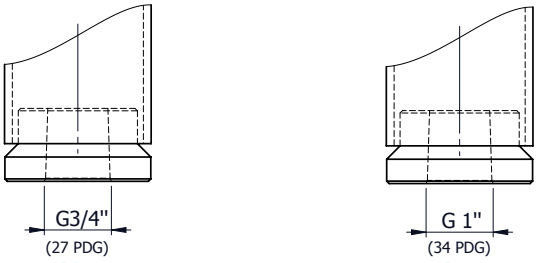
F

Welded female boss for bracket



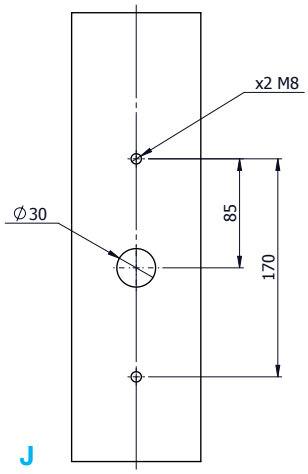
G

Welded female boss for suspended fixation



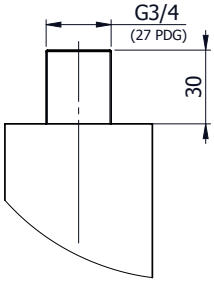
H I

Pole machining for rear fixation plate



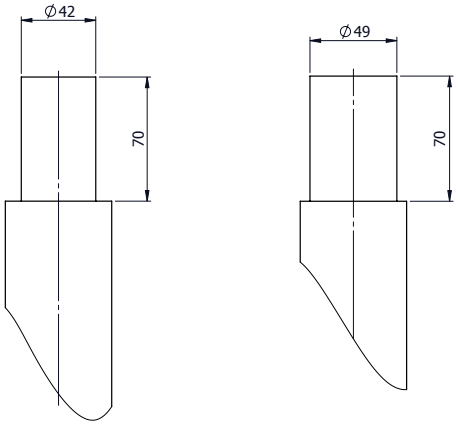
J

Post-Top Ø ¾"



K

Welded spigot for U-bracket



L M

INTERFERENCE AND POWER SURGE PHENOMENA

Outdoor lighting systems are exposed to weather and electrical disturbance.

- Weather conditions have an obvious effect on electrical installations.

In cloudy conditions a difference in electrical potential between the clouds and the earth builds up and electrostatic charges are likely to surround the luminaires.
These must be neutralised without transiting via the electrical circuits in the appliances and the earthing continuity is therefore very important when mounting the lighting column (see previous page).

A bolt of lighting characterised by a sudden, brief power surge directly striking a luminaire would of course cause irreversible damage to the appliance, regardless of the earthing system.

The damage caused by a lighting strike near to an installation is variable, whatever the type of luminaire (standard source or LED) or the protection used. With regard to ECLATEC LED luminaires, LED and drivers have their own protection, which is not infallible however.
As an additional precaution, which however remains relative, a centralised surge arrestor box should be installed on the cabinet of each outgoing line

- Some disturbances may be due to the quality of the network or the method of connection:

- a network on which overvoltages are due to neutral breakdowns or the presence of other poorly-insulated appliances on the same line create unfavourable conditions.

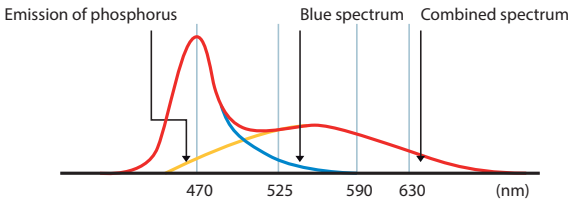
- in the same way, it is not advisable to couple LED luminaires on the same outgoing line as standard luminaires with ferromagnetic ballasts, due to the high voltages generated by the latter when they are switched on and especially switched off.

GENERAL INFORMATION CONCERNING LED

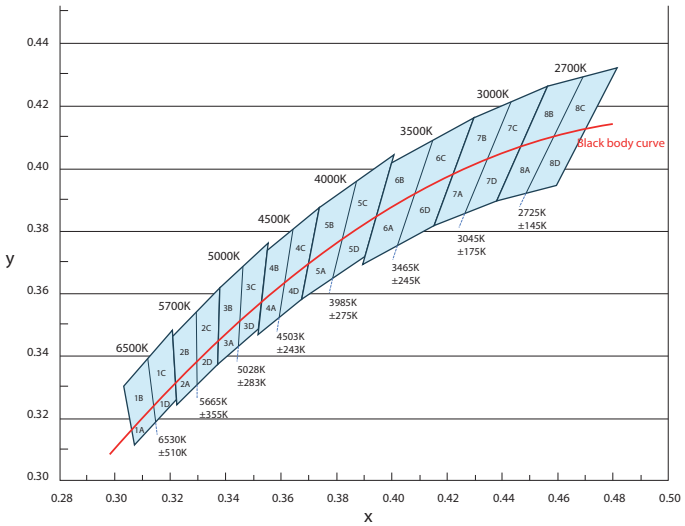
LED and light colour

The most frequently used method to obtain white light from an LED consists in modifying the natural spectrum (blue) by using a phosphorus film (yellow):

Blue LED + phosphorus:

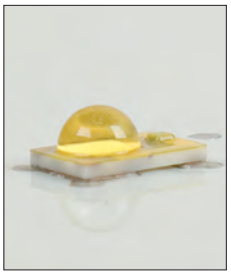


Example of BIN colour temperature ranking (source: Lumiled)

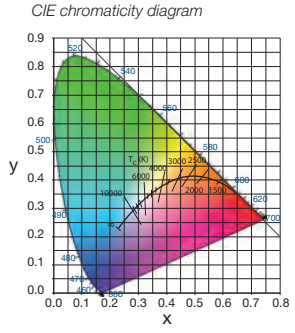


LED and colour temperature

Within the CIE chromaticity diagram, manufacturers define zones allowing the various LED to be sorted according to their colorimetric characteristics (x, y coordinates). Until the standard EN62707-1 concerning sorting of LED is published, the zones are specific to each manufacturers.



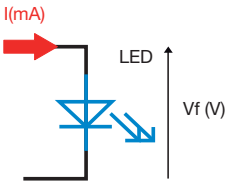
CIE chromaticity diagram



Three main areas of white light are visible, these being subdivided into three groups:

- Hot white (2670 K to 3500 K)
- Neutral white (3500 K to 4500 K)
- Cold white (4500 K to 10,000 K)

Power supply of an LED

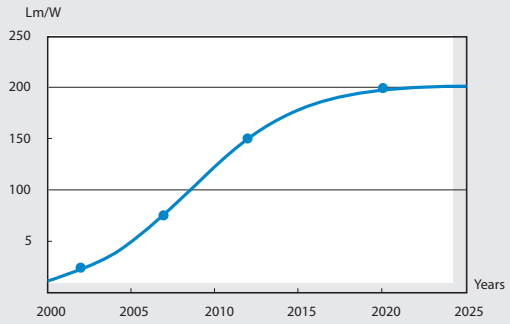


The parameters to be taken into consideration to power an LED are the current (I) and the reverse voltage (Vf). An LED is always powered by current and the voltage is an intrinsic parameter of the component.

Caution: the reverse voltage Vf is an important factor as it has a direct effect on the performance of the LED.

Outlook of the LED

Over the last few years, the luminous efficacy of LED has significantly improved as shown by this graph. There is still some margin for progress which should materialise in the next few years.



Luminous efficacy of white LED seen by the OIDA in 2002

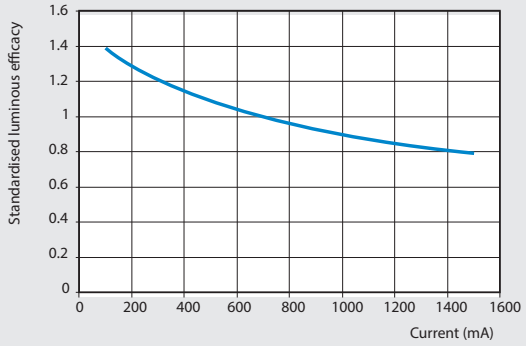
Luminous efficacy of an LED

The luminous efficacy of the LED is expressed in lumens per watt (lm/w). The flux, expressed in lumens, is the total quantity of light emitted by the LED. The power, expressed in watts, is the electrical energy consumed by the LED.

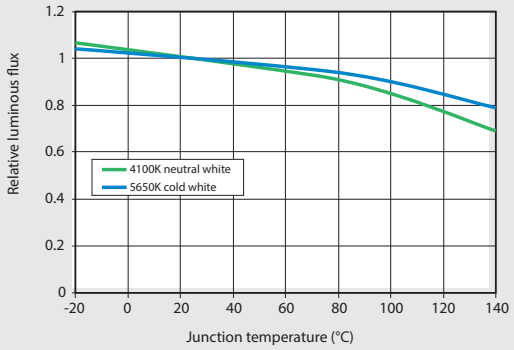
The luminous efficacy of an LED is impacted by many parameters:

- The technology / the supplier of the LED
- The colour temperature
- The colour-rendering index
- The supply current (1)
- The junction temperature (2)

The 2 curves below illustrate the impact of the current and the temperature on the efficacy of LED.



Variation of the flux of the LED according to the current



Variation of the flux of the LED according to the junction temperature

Luminous efficacy of an LED luminaire

Three major factors linked to its design determine the luminous efficacy of an LED luminaire:

1. The conversion of the mains voltage (230V AC) to an LED supply current (500mA, 700mA …).

- supply the LED directly with DC voltage (not recommended)
- convert the mains voltage to DC voltage and then to direct current (yield of approximately 80 %)
- convert the mains voltage directly to direct current (yield of approximately 90 %, Eclatec solution)

2. Conversion of the electrical power into light (See chapter regarding the efficacy of an LED concerning this subject)

3. The conversion of the flux output by the LED in optimised photometric distribution.

Secondary Lens will distribute light in desired areas and will protect LED component against elements

The relevance of an LED lighting solution depends on the luminaire and the photometric project. It is therefore not only linked to the intrinsic performances of the LED technology, but also to many factors linked to the optical, thermal and electrical design for the luminaire and the photometric study for the installation.

ECO DESIGN AND RECYCLING

Eco Design Responsible design

The mindset of the **«Eclairage Citoyen®»** guides ECLATEC in its design approach.
At a very early stage in the product creation process, ECLATEC focuses on reducing the nuisances caused by lighting (ULOR, light pollution), particularly by the choice of reflector and by the configuration of the luminaire.
The photometric expertise of ECLATEC, its commitment to **«optimum lighting»** through advanced lighting studies and optimised combinations of reflectors, sources and electrical equipment all contribute to reducing the energy consumption of local authorities.

The choice of materials

For reasons of quality and durability of the products, ECLATEC chooses noble materials such as aluminium, steel or glass. Polymers are only used to make certain lighting bowls and for a few technical parts.

These choices result in a very high level of recycling for the luminaries, significantly above the requirements of the WEEE. For example, each tonne of aluminium is recyclable and generates 900 kg of secondary aluminium ingots.

In accordance with the European Directive - RoHS - ECLATEC luminaires (excluding the lamp) do not use any prohibited materials (Lead, Mercury, Chromium CI, Cadmium (except for certain electrical contacts), PBB (polybrominated diphenyl), PBDE (Polybrominated diphenyl ethers).

Recycling

ECLATEC applies the European WEEE directives with regard to the recycling of products at the end of their lives.

For the lamps

In France, all lamps sold by ECLATEC come from manufactures who are members of RECYLUM.In application of the WEEE directive, ECLATEC transparently passes on the cost of recycling the lamp.

For luminaires

There is no generalised channel for recovering luminaires and the customer is therefore responsible for recycling them. However, in France, RECYLUM has launched a pilot experiment in this field and ECLATEC is associated with this.

A controlled manufacturing process

Applying its concern for environmental protection to its industrial process, ECLATEC aims to measure and reduce its environmental impact in its industrial activity.

This approach resulted in the company being granted ISO 14001 certification in 2009.

Communication department Eclatec - edition 02/2018
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E-mail: com@eclatec.com

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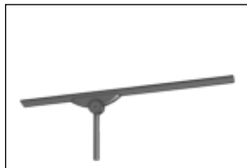
ECLATEC

Brackets

All ECLATEC bracket assemblies are sold wired


Access TA


Accord


Cast aluminium

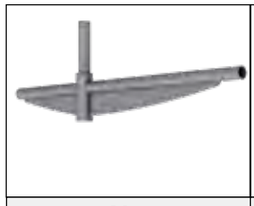
Alba


Cast aluminium

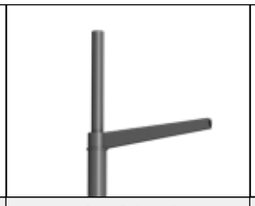
Alexia


Cast aluminium

Alteo


Alto


Architek (Elipt)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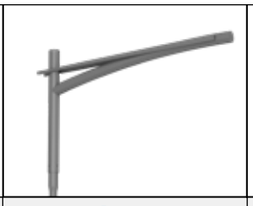
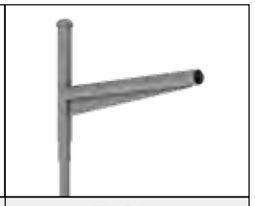
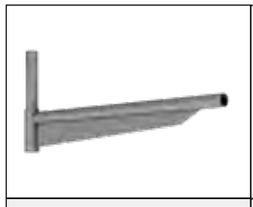
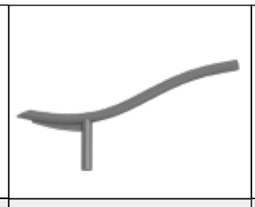

Aveo

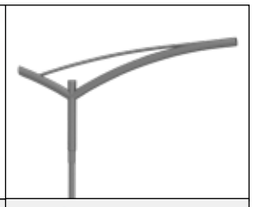

Baltic


Basalt


Borneo


Camaro (Pixel)


Catelux

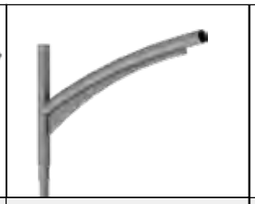

Chantereine


Cast aluminium

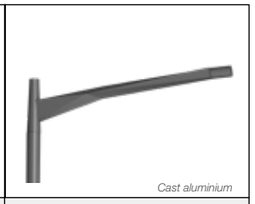
Clipart (Clip)


Cast aluminium

Cliptown (Clip)


Cytise

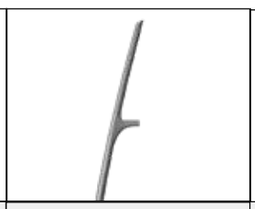

Delphi

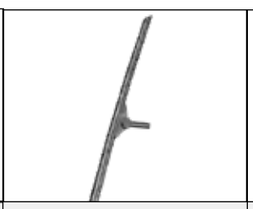

Cast aluminium

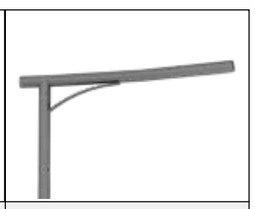
Diamant

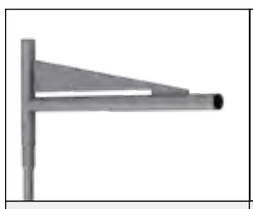

Etna


Focus


Gala


Gala access


Gem


Golf


Head


Cast aluminium

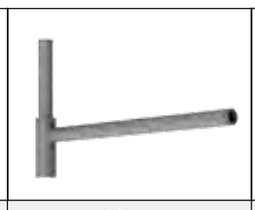
Hera


Cast aluminium

Indigo

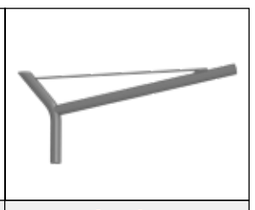

Karma

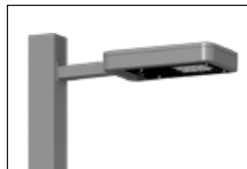

Kc


Kca


Kcr


Kino


Laslo


Maka (Pixel)


Massaï


Musa


Noa


Oregon

Orkid

Palama

Palme

Para

Paros

Paternos

Cast aluminium

Phénix

Pico

Plaza

Prima

Pyramid

Salome

Salto

Saxo

SCO

Speo

Stanza R

Stelio

Surf

Surf TT

Tecla

Cast aluminium

Teo

Tonga

Track

Triane

Cast aluminium

Tsaa (Tsana)

Vecteur (Elipt)

Volta

Ysa

Luminous column