

# Alura LED



Designer : Michel Tortel



## Ambiance lighting, combining comfort and efficiency

The Alura LED luminaire combines efficiency, aesthetics and visual comfort. With its timeless elegance and its high performance photometry, this luminaire is a distinctive tool to light urban centres, squares, bike paths, residential streets and car parks.

Available with a striated polycarbonate protector, Alura LED creates a warm ambiance while generating significant energy savings. It ensures safety and well-being in the public space in the most sustainable way.



IP 66

IK 10



## Concept

Composed of high-quality recyclable materials, the Alura LED is built to last. The base section, bracket arms, top cover and cover plug are composed of die-cast aluminum.

The protector is available with two options: a clear or a sanded striated version. It can be made from PMMA or UV-resistant polycarbonate. Using state-of-the-art technology,

Alura LED is FutureProof: the optical unit or the control gear can be replaced at any time to take advantage of future technological improvements. Available with a LensoFlex®2 photometrical engine, Alura LED can be equipped with 16 to 48 LEDs to provide both symmetrical and asymmetrical lighting distributions.

Alura LED is designed for post-top mounting onto a Ø60mm spigot. The fixation on the pole is done with 6 M6 screws or 2M8 screws with a specific base section.



Alura LED has various options for the protector.



Alura LED is available with a wide range of LensoFlex®2 optics.

## TYPES OF APPLICATION

- URBAN & RESIDENTIAL STREETS
- BRIDGES
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS

## KEY ADVANTAGES

- Low energy consumption
- Elegant design for low height installation
- Visual comfort
- Robust materials



Supplied pre-cabled, this luminaire ensures an easy installation.

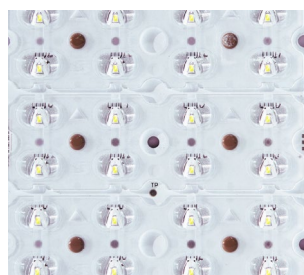


Alura LED is designed for mounting on a Ø60mm spigot.



LensoFlex®2

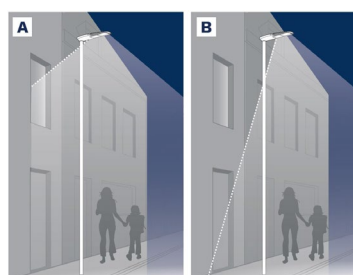
LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light distribution.



Back Light control

As an option, the LensoFlex®2 and LensoFlex®4 modules can be equipped with a Back Light control system.

This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.



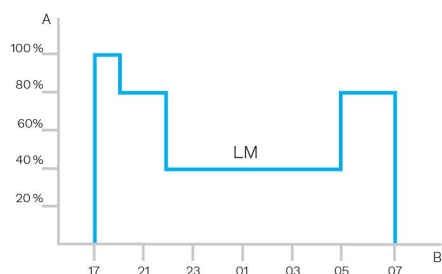
A. Without Back Light control | B. With Back Light control



## Custom dimming profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. Up to five combinations of time intervals and light levels are possible. This feature does not require any extra wiring.

The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.



A. Dimming level | B. Time



## PIR sensor: motion detection

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

Each luminaire level can be configured individually with several parameters such as minimum and maximum light output, delay period and ON/OFF duration time. PIR sensors can be used in an autonomous or interoperable network.



## GENERAL INFORMATION

Recommended installation height	3m to 5m   10' to 16'
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
CE Mark	Yes
ENEC certified	Yes
ETL/UL certified	Yes
ROHS compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	b, c, d, f, g
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

## HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	Direct access to the gear compartment by loosening screws on the top cover

· Any other RAL or AKZO colour upon request

## OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +50 °C / -22 °F up to 122 °F
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· Depending on the luminaire configuration. For more details, please contact us.

## ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	10 20
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-4-5 / EN 61547
Control protocol(s)	1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Socket	NEMA 7-pin (optional)
Associated control system(s)	Owlet Nightshift Owlet IoT
Sensor	PIR (optional)

## OPTICAL INFORMATION

LED colour temperature	2200K (Warm White 822) 2700K (Warm White 727) 3000K (Warm White 730) 3000K (Warm White 830) 4000K (Neutral White 740)
Colour rendering index (CRI)	>80 (Warm White 822) >70 (Warm White 727) >70 (Warm White 730) >80 (Warm White 830) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	<5%

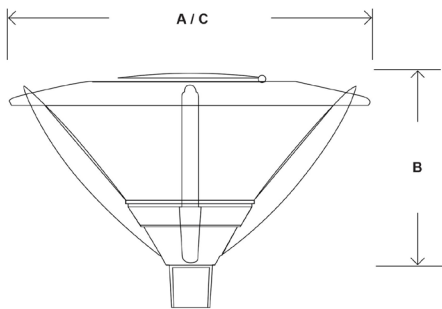
· ULOR may be different according to the configuration. Please consult us.

## LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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DIMENSIONS AND MOUNTING

AxBxC (mm   inch)	695x456x695   27.4x18.0x27.4
Weight (kg   lbs)	15   33.0
Aerodynamic resistance (CxS)	0.12
Mounting possibilities	Post-top slip-over – Ø60mm





			Luminaire output flux (lm) Warm White 727		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 822		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry
ALURA LED	16	200	800	900	900	1100	600	700	800	900	900	1100	11	11	100	
	16	300	1100	1400	1200	1500	900	1100	1100	1400	1300	1600	15.8	15.8	101	
	16	400	1400	1700	1600	1900	1100	1400	1400	1700	1600	2000	20.7	20.7	97	
	16	500	1700	2000	1900	2300	1300	1600	1700	2000	1900	2300	25.7	25.7	89	
	16	600	1900	2300	2100	2600	1500	1800	1900	2300	2200	2600	30.8	30.8	84	
	16	700	2000	2500	2300	2800	1600	2000	2000	2500	2400	2900	36.2	36.2	80	
	24	200	1200	1400	1300	1600	900	1100	1200	1400	1400	1700	16	16	106	
	24	300	1700	2100	1900	2300	1300	1600	1700	2100	2000	2400	23.1	23.1	104	
	24	400	2100	2600	2400	2900	1700	2100	2100	2600	2500	3000	30.4	30.4	99	
	24	500	2500	3100	2800	3400	2000	2400	2500	3100	2900	3500	38.1	38.1	92	
	24	590	2800	3400	3100	3800	2200	2700	2800	3400	3200	3900	44.5	44.5	88	
	24	600	2800	3500	3200	3900	2200	2700	2800	3500	3300	4000	47.5	47.5	84	
	24	700	3100	3700	3400	4200	2400	3000	3100	3700	3600	4300	55.5	55.5	77	
	32	200	1600	1900	1800	2200	1300	1500	1600	1900	1800	2200	21.4	21.4	103	
	32	300	2300	2800	2500	3100	1800	2200	2300	2800	2600	3200	30.9	30.9	104	
	32	400	2900	3500	3200	3900	2300	2800	2900	3500	3300	4000	41	41	98	
	32	450	3100	3800	3500	4300	2500	3000	3100	3800	3600	4400	46	46	96	
	32	500	3400	4100	3800	4600	2700	3300	3400	4100	3900	4700	51.5	51.5	91	
	48	200	2400	2900	2700	3300	1900	2300	2400	2900	2800	3400	30.6	30.6	111	

Tolerance on LED flux is  $\pm 7\%$  and on total luminaire power  $\pm 5\%$





