

Hestia LED



Designer : E. de Portzamparc



Elegant solution with cutting-edge LED technology

Hestia LED has been designed by Elizabeth de Portzamparc to create a fluid, light and elegant LED luminaire.

Hestia LED offers an economical lighting solution based on state-of-the-art LED technology. This luminaire is available with different lumen packages, all characterised by low energy consumption for high-quality photometric performance.

Available in 2 sizes (Mini and Midi), the outdoor LED lighting adapts to any kind of urban spaces while bringing a touch of elegance.

Create comfortable and safe environments in your city thanks to Hestia LED!



IP 66	IP 65	IK 08
CE	RoHS	005 certification



Concept

The Hestia LED luminaires are composed of durable and recyclable materials. The painted die-cast aluminium body is attached to a curved (Mini version) or a flat (Midi version) tempered glass protector.

The Hestia LED luminaires are equipped with second generation LensoFlex®2 photometric engines that have been specifically developed for lighting spaces where the well-being and safety of people using the environments are essential.

This luminaire is available in two sizes - Mini and Midi - with different lumen packages, all characterised by low energy consumption for high-quality photometric performance.

This luminaire can be installed using a side-entry fixation on a Ø34mm bracket.



Hestia LED is available with a Back Light control system to avoid light spill.



An integrated hinge keeps the protector wide open for easy maintenance on-site.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- Elegant design incorporating the advantages of LED technology
- Low energy consumption
- True range with two sizes and numerous lumen packages
- LensoFlex®2 : high-performance photometry adapted to various applications
- Robust materials



The LensoFlex®2 photometric engines provide the highest efficiency.



Hestia LED features a tool less opening system.



LensoFlex®2

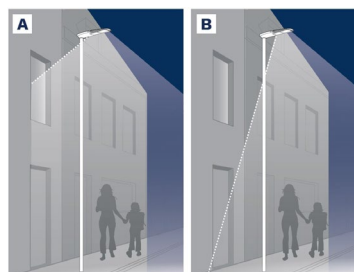
LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light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



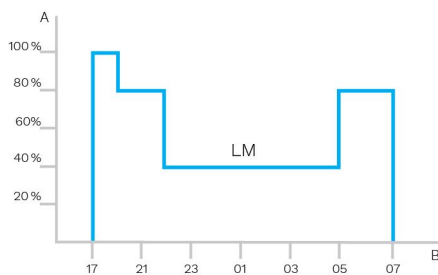
A. Without Back Light control | B. With Back Light control



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	4m to 8m 13' to 26'
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)	a, b, c, d, e, f, g
BE 005 certified	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 65, IP 66
Impact resistance	IK 08

ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz
Surge protection options (kV)	10
Control protocol(s)	1-10V, DALI
Control options	Bi-power, Custom dimming profile, Photocell, Remote management
Associated control system(s)	Owlet Nightshift
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)	0%

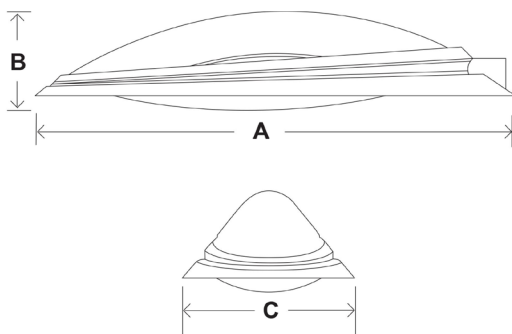
· ULOR 0%: only for flat glass version.

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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DIMENSIONS AND MOUNTING

AxBxC (mm inch)	HESTIA MINI LED - 780x163x266 30.7x6.4x10.5 HESTIA MIDI LED - 924x170x324 36.4x6.7x12.8
Weight (kg lbs)	HESTIA MINI LED - 7 15.4 HESTIA MIDI LED - 9 19.8
Aerodynamic resistance (CxS)	HESTIA MINI LED - 0.07 HESTIA MIDI LED - 0.08
Mounting possibilities	Side-entry slip-over - Ø34mm





Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 727		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) Warm White 822		Luminaire output flux (lm) Warm White 830		Power consumption (W)		Luminaire efficacy (lm/W)	Photometry
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	
HESTIA MINI LED	16	350	2000	2100	2200	2300	2300	2400	-	-	-	-	18.2	18.2	132	
	16	500	2600	2800	2900	3100	3000	3200	-	-	-	-	25.7	25.7	125	
	16	700	3400	3600	3800	4000	3900	4100	-	-	-	-	36.2	36.2	113	
	24	350	3000	3100	3300	3500	3400	3600	-	-	-	-	26.8	26.8	134	
	24	500	4000	4200	4400	4700	4600	4800	-	-	-	-	38.1	38.1	126	
	24	700	5100	5400	5700	6000	5900	6200	-	-	-	-	55.5	55.5	112	
	32	350	4000	4200	4400	4700	4600	4800	-	-	-	-	35.9	35.9	134	
	32	500	5300	5600	5900	6200	6100	6400	-	-	-	-	51.5	51.5	124	
HESTIA MIDI LED	48	200	3900	4600	4300	5200	4500	5400	3100	3700	3900	4700	28.9	28.9	187	
	48	300	4800	5700	5300	6400	5500	6600	3800	4500	4800	5800	43	43	153	
	48	400	5800	6900	6400	7700	6700	8000	4600	5500	5900	7000	57.5	57.5	139	
	48	500	6900	8300	7700	9200	7900	9500	5500	6600	7000	8400	73	73	130	
	64	200	5200	6200	5800	6900	6000	7200	4100	4900	5200	6300	37.3	37.3	193	
	64	300	6400	7600	7100	8500	7300	8800	5000	6000	6400	7700	56	56	157	
	64	400	7700	9300	8600	10300	8900	10700	6100	7300	7800	9400	75	75	143	
	64	500	9200	11100	10300	12300	10600	12700	7300	8800	9300	11200	95	95	134	
	64	600	10900	13100	12100	14600	12600	15100	8600	10400	11000	13300	114	114	132	

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

