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Helius 121
Data Guide

Pedestrian Crossing Lantern

Day/Night switching available via 3 Pin Nema socket (cell not included)

Sustainable: Tool-less change of electronic and LED modules

Reliable: Lifetime of the LED driver and LEDmodules at 85.000 h

Easy installation: Orientation possibilities steplessly adjustable between -10° and +115°

Future proof: Optimised design specially conceived for use of most modern LED technology

Application areas:

- Roads in residential areas
- Entrances/exits
- Pedestrian crossings
- Main roads
- Parking areas
- Secondary roads

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Pedestrian Crossing Lantern

Lighting calculations are based on a standard pedestrian crossing site [3m x 6m crossing, 30mph single carriageway, two-way traffic]. This arrangement utilises 2 x Lunux Helius 121 Luminaires [Left Optic Arrangement] mounted at 6m with a 0.8m clearance from both kerb edge and crossing edge. This meets the requirements specified in BS EN 13201-2:2015, Table 3 [Classification P1] & in accordance with ILP TR12.

Light Output Results:

	LIGHT LEVELS ACHIEVED		REQUIREMENT	
	Mean Illuminance	Overall Uniformity	Mean Illuminance	Overall Uniformity
Crossing Carpet/Surface	84 Lux	0.73	52.5 Lux	0.6
Crossing Centre	49 Lux	0.40	30 Lux	-
Kerb Edge	33 Lux	0.41	30 Lux	-
Waiting Area - Rear	32 Lux	0.00	22.5 Lux	-

Please note that all pedestrian crossings are site specific and can require special consideration - photometric files and designs are available upon request.

LIGHT HOUSING	
Material	Die cast aluminium
Colour (powder coating)	RAL 9006 or DB 703
Mounting type	Post top or side mounting
Orientation possibilities (in 5°-steps)	-100° - +25° (Side mounting) bzw. -10° - +115° (Post top)
Dimensions (length x width x height)	610 × 306 × 94 mm
Weight	app. 8 kg
Exposed wind surface	0,04 m2
IP Protection class	IP 66
Glass type	ESG
Shock resistance	IK 08

ILLUMINANT PROPERTIES	
Light source	LED Modules with High-Power-LEDs
Optical system	Asymmetric wide beam and asymmetric forward beam
Rated luminous flux	3.400 – 7.000 lm
Light efficiency	115 lm/W
Colour temperature	3.000 K / 4.000 K
Colour rendering index (Ra)	>70
Dimming (power control)	Optional line switch (50% / 100%), dimming profile or DALI
Rated lifetime at (ta) 30°C	85.000 h at L80/B10
Temperature management	✓
Constant Light Output (CLO)	✓

ELECTRICAL PROPERTIES	
Rated power	30 – 60 W (2 W steps)
Electrical protection class	SK I / SK II
Rated voltage / Frequence	220 - 240 V / 50 - 60 Hz
Surge protection (L–N / L|N–ground)	6 / 8 kV

INSTALLATION REQUIREMENTS	
Application areas	Roads in residential areas, entrances / exits, pedestrian crossings, main roads, parking areas, secondary roads
Light point height	5 – 8 m
Lighting classes	ME/S
Admitted ambient temperature (ta)	-25 C° – +35 C°

OTHER PROPERTIES	
Certification	ENEC, CE

OPTIONS	
Reduction part to Ø 60 / 42 × 100	✓
Optional surge protection	10 kV

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