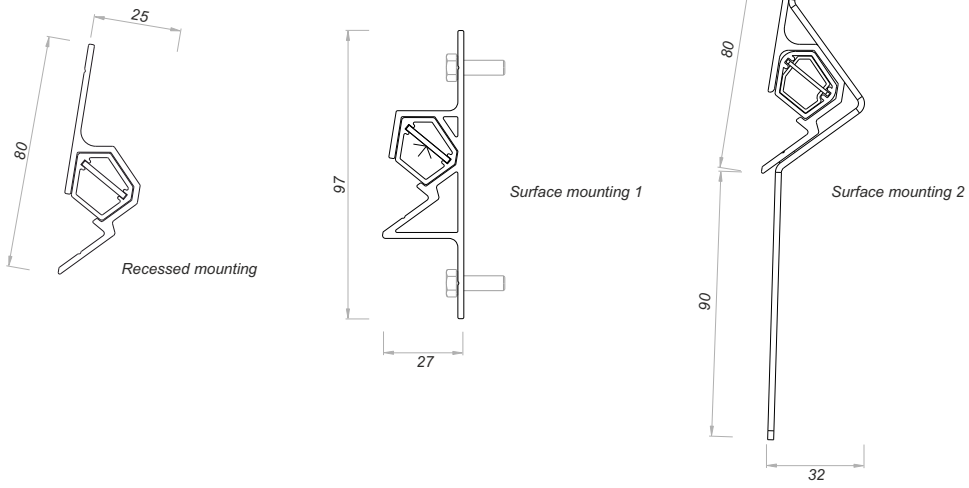
PRODUCT SHEET

CarLed

INNOVATION, EFFICIENCY & ENERGY SAVING



MAIN CHARACTERISTICS

Product type	Yellow/Amber LED	White LED (4000K)
Applications	Security or signal lighting tunnels, underpasses, industrial, road,subway,railway	
Color	Gray	
Material	Anodized extruded aluminum body	
Protective shield	Self-extinguishing extruded polycarbonate shield	
Standard dimensions	3000mm (o custom) x 80mm x 25mm - recessed mounting 3000mm (o custom) x 97mm x 27mm - surface mouting 1 3000mm (o custom) x 170mm x 32mm - surface mouting 2	
Weight	Max 4 Kg	
Protection degree	IP 65 | IK07	
Insulation class	SELV	
Mounting	Recessed or surface mounting	
N° LED	10 LEDs of 6V	14 LEDs of 3V
LED center distance	300 mm	185 mm
LED Efficacy	[1]59 lm/W - @ 150 mA, T_j = 25 °C	[2]74lm/W - @150 mA; T_j = 25 °C
Rated voltage	48VDC	48VDC
Power	Max 1,8W per meter	Max 2,2W per meter
Driver	Installed in the zone control cabinet with regulation protocol 1/10 or DALI	
Power factor	Cosϕ ≥ 0.9	
Operating temperature	-40 / 100°C	

CE IK 07 IP 65 Pb lead-free RoHS LED Light for you powered by OSRAM CERTIFIED PARTNER

DESCRIPTION

LED lighting fixture used for security or signaling lighting in tunnels, underpasses, industrial, road, subway,railway. The profile consists of corrosion-resistant anodized aluminum extruded profile, closed on both sides with PA66 V0 caps, the LED module is protected by a polycarbonate profile that serves as both an optical shield and a guide for the LED module. Impact-resistant profile IK07 and with IP65 degree of protection. Lamp body in insulation class III. Continuous connection by screw terminals. Power supply unit mounted in the local cabinet. LED module composed of aluminum substrate with 3V or 6V high-efficiency LED. The 24/48VDC constant-voltage power supply is wired in the local cabinet. Efficiency ≥90% at full load, power factor Cosϕ ≥ 0.9. CE certification.

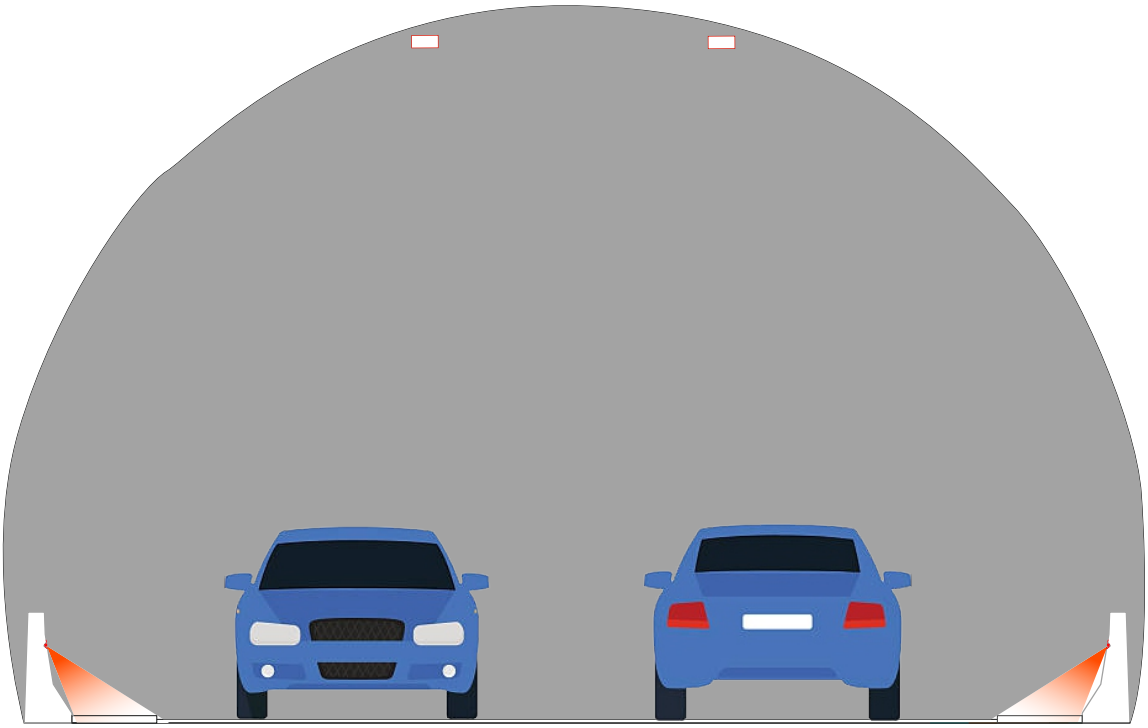
MADE IN ITALY MADE IN

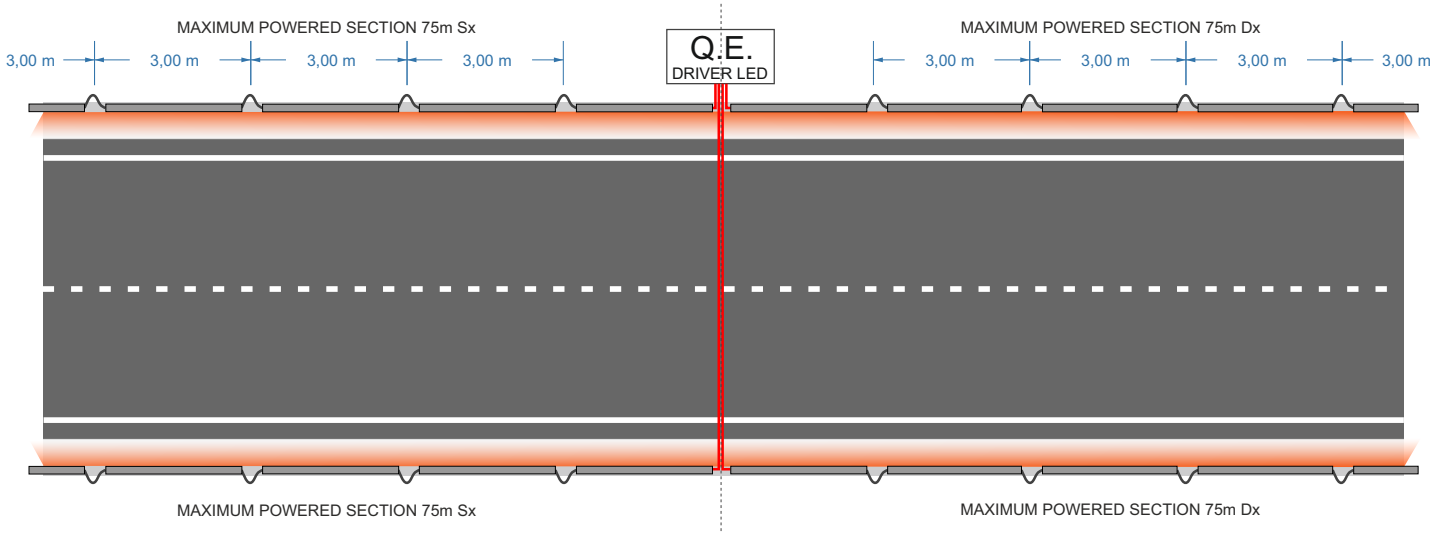
Main Reference Standards

EN 60598-1: Luminaires - Part 1: General requirements and tests.
EN 60598-2-3 Special Requirements - Luminaires for Street Lighting
IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions.
EN 61000-3-3: Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547: Equipment for general lighting purposes - EMC immunity requirements
EN 13032-1: Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format.
UNI 11095:2021: Light and lighting - Road tunnel lighting
UNI EN 16276: Evacuation lighting in road tunnels
CEI 64-20: Electrical installations in road tunnels
EN CEI 34-193: Guide to the design of luminaires for tunnels with thermal performance
Legislative Decree No. 264:2006: Implementation of Directive 2004/54/CE on safety for road and trans-European network tunnels.
Datasheet according to IEC/PAS 62717 - IEC/PAS 62722

CarLed

INNOVATION, EFFICIENCY & ENERGY SAVING





LIGHTING DATA		
Lighting	Iemergency lighting on redirective barrier made to create a ground signal strip of about 90cm on sidewalk or platform to ensure about 5 lux average and 2 lux minimum	
LED Color	Yellow/Amber	White (4000K)
Luminous Flux Issued	About 110lm	About 400lm

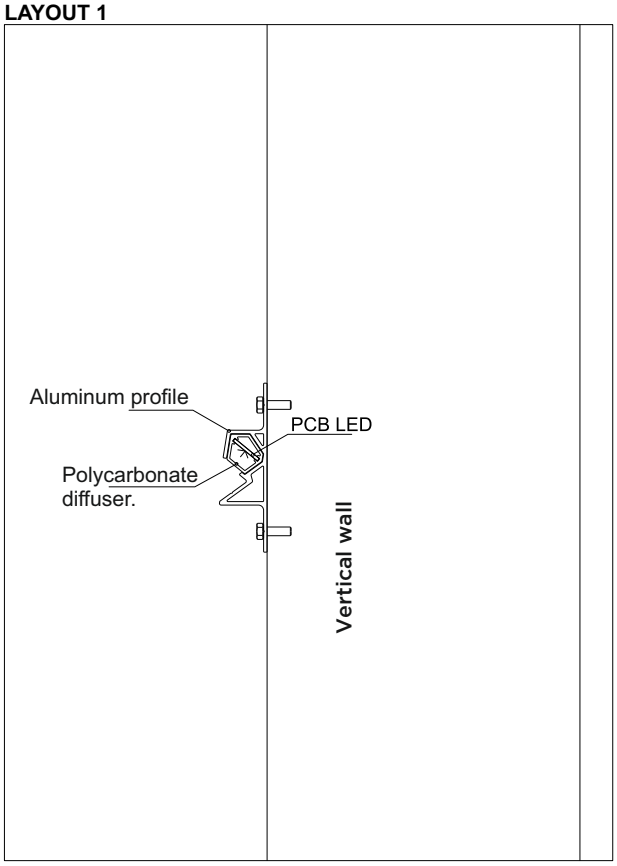
NOTE: The values indicated in this sheet are nominal, to be considered with a tolerance of +/- 10%.
Efficiency extrapolated from the LED manufacturer's datasheet:
For the nominal luminous flux, the minimum value emitted by the [1]LED GA PSLR31.13 IN JR - F was considered
For the nominal luminous flux, the minimum value emitted by the [2]LED GW JTLPS1.EM IN KM - L2 was considered

In order to encourage constant updating of its products, Phaenomena reserves the right to make changes without notice.
Errors or omissions excepted. Always make sure you are using the latest version.
The characteristics of the product listed are subject to change and will be confirmed when ordering.

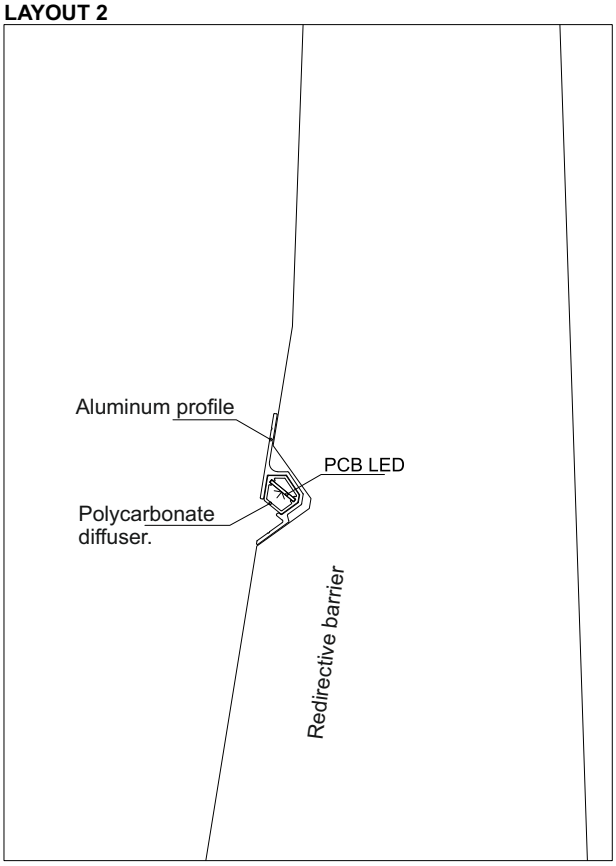
CarLed

INNOVATION, EFFICIENCY & ENERGY SAVING

LAYOUT 1



LAYOUT 2



LAYOUT 3