

LED ROADWAY LIGHTING

Evolve P3



NEW



The new GE Evolve P3 Gen 3 was specifically designed for Australia's Category-P Street Lighting and pathway lighting requirements, fully complying with AS/NZS 1158.3.1:2020 GE's latest LED Roadway fixture builds upon the successful GE Evolve P4P5, providing a high-performance output of 3800 lumens. The newly developed optics makes it ideal for P3 roads and pathways including cycleways, both for new and retrofit installations. It offers the latest options for dimming control and is sensor ready. It will be supplied with a 7-pin NEMA socket as standard to provide future compatibility with Smart Networking and Zhaga Book 18 socket as an option.

Applications

- Designed specifically to meet PR3, PR4 and PR5 categories of Australian road lighting standards.
- Direct one-for-one replacement for 70W HPS and 125W MV.
- Self-cleaning semi cut-off visor.

Smart City Readiness

- Device ready for smart city applications.
- Interoperability to any smart interface for outdoor lighting.

Electrical

- Energy efficient 27W - 30W total system power.
- IP20 rated driver with >1000,000hrs rated lifetime.
- Input voltage 220-240V, 50/60 Hz.
- IP65 rated Surge Protection Device rated at 20kV/10kA (I_{max} = 20 kA) to IEC 61643.
- System power factor >90% and THD <20%.
- Option for in-line fuse available on request.
- Class I insulated, Class II double insulated available on request.

Controls

- Optional zhaga book 18 socket to support additional sensors/IoT devices.
- DALI 2.0 SR standard, other options available upon request.
- 7-pin NEMA socket prewired for dimming and digital & analogue sensor inputs to ANSI C136.41.

LED & Optical Performance

- Utilises unique lens design and latest LED technology to achieve maximum compliance with AS/NZS 1158.3.:2020 Category P alignment
- Optical chamber independently sealed to IP66.
- CCT 4000K standard, 3000K and custom optics available on request.
- Upward light output ratio (ULOR) = 0.
- Front, back and 360 degrees glare shielding visors available as accessories.

Mounting

- Horizontal mounting position with 27-34mm spigot side entry.
- Adjustable mounting angles +/-5 degrees.

INTEGRATED
SMART
TECHNOLOGY

LED ROADWAY LIGHTING

Evolve P3 Gen3



Finish

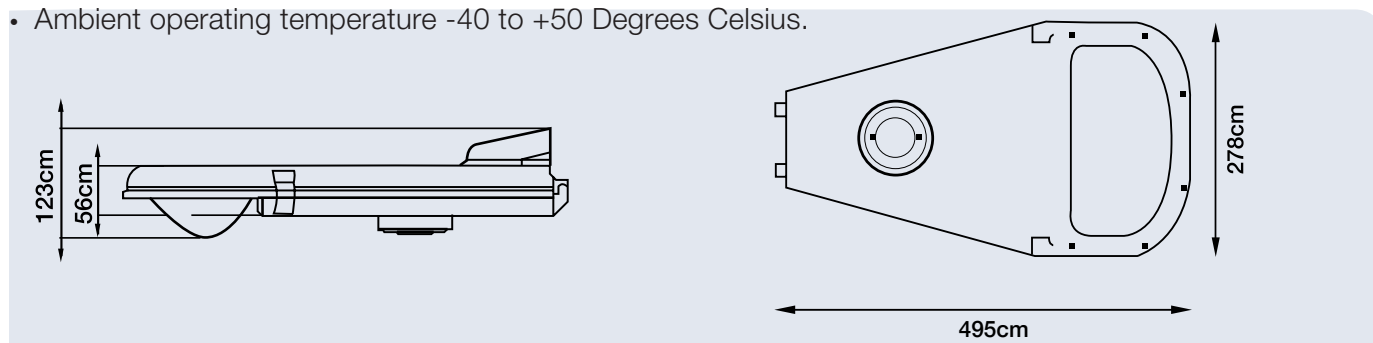
- Robust resistant polyester powder coat finish, LM6 grade casting.
- Made of high corrosion LM6 aluminium suitable for marine grade environments.
- Standard colour is silver grey with black and special RAL colours available upon request.

Housing

- Stylish slim lightweight design at 4.5kg.
- Very small sail/windage area of only 0.05 m2.
- Self-cleaning visor to minimize light loss due to dirt accumulation results in a highly energy efficient and low maintenance luminaire.
- IK09 Impact rated.
- Available with IP44, IP65 or IP66 ingress protection for control gear chamber.
- Tool-less entry to control gear chamber using stainless steel quick release clips and removeable gear tray via bottom cover.

Standards & Environment

- Complies with technical specification SA/SNZ TS 1158.6:2015 Amd 1:2018 – Luminaires Performance.
- Meets ANSI 2G vibrations standard.
- EMC complaint to AS/NZS CISPR15.
- Complaint with RoHS2 – Restriction of Hazardous Substances Directive (EU) 2017/2102.
- Ambient operating temperature -40 to +50 Degrees Celsius.



Product ID	Optics	Power System	Optical	CCT	Dimming	Finish Colour	IP	Fuse
ERR= LED Evolve Roadway Residential	A= Standard C = RRW	27W 29W 30W	P3 = P3	40 = 4000K 30 = 3000K	V = 1-10V D1 = DALI 1.0 D2 = DALI 2.0 D2SR = DALI 2.0SR D2SRZG = DALI 2.0SR + ZG	SG = Silver Grey BK = Black	44 = IP44 65 = IP65 66 = IP66	F = In- line Fuse

Accessories

Model Number	Description
P4P5VMF	Visor masked for glare shielding at the front of the luminaire
P4P5VMB	Visor masked for glare shielding at the back of the luminaire
P4P5VM360	360 degree masked visor
TBA	PE CELL NEMA 8000 or 2000 Series Long Life
SJL208	Shorting Cap