

LED ROADWAY LIGHTING

Evolve P4P5 Gen 3.1



The GE Evolve P4P5 Gen 3.1 was designed for Australia's street lighting category and complies with SA/SNZ TS 1158.6:2015 Amd 1:2018 and AS/NZS 1158.3.1:2020. GE's latest LED roadway fixture builds upon the successful Evolve P4P5 and by using the latest LED and driver technology, delivers both improved efficiency of 146 lumen per watt and increased driver life greater than 100,000 hours. Plus, we now offer the option of 1-10V, DALI 1.0 or DALI 2.0 dimming. The fixture is always supplied with a 7-pin NEMA socket and optional Zhaga Book 18 socket to provide future compatibility with Smart Networking.

INTEGRATED
SMART
TECHNOLOGY

Applications

- Designed specifically to meet P4, P5, PR5 and PR6 categories of Australian road lighting standards
- Direct one-for-one replacement for 42W CFL, 2x14W T5, 2x24W T5 and 80W MV.

Electrical

- Energy efficient 14W total system power
- IP65 rated driver with >100,000 hours rated lifetime
- Input voltage 220-240V, 50/60 Hz
- IP65 rated Surge Protection Device rated at 20kV/10kA ($I_{max} = 20 \text{ kA}$) to IEC 61643 with end of life LED indicator
- System power factor >90% and THD <20%
- Option for in-line fuse
- Class I insulated.

Controls

- Dali 2 driver is standard, other options available upon request
- 7-pin NEMA socket prewired for dimming and digital & analogue sensor inputs to ANSI C136.41
- Optional Zhaga book18 socket to support additional sensors/IoT devices.

LED & Optical Performance

- Utilises unique lens design and the latest LED technology to achieve maximum compliance with AS/NZS 1158.3.1:2020 Category P alignment
- Optical chamber independently sealed to IP66
- CCT 4000K (S/P 1.4701) and 3000K (S/P 1.1524) standard, custom optics available on request
- Upward light output ratio (ULOR) = 0
- Front, backward and 360 degrees glare shielding visors available as accessories.

Mounting

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

Finish

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

**LIGHT
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Housing

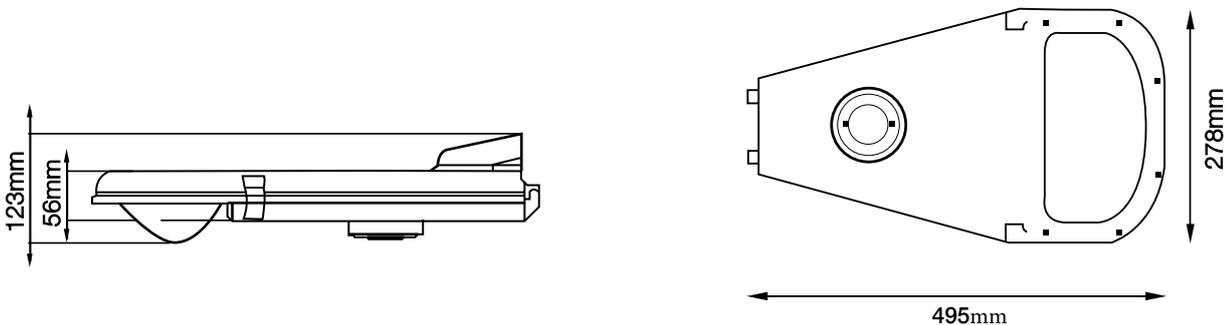
- Stylish slim lightweight design at 4.5kg
- Very small sail/windage area of only 0.05 m²
- Self-cleaning visor to minimize light loss due to dirt accumulation results in a highly energy efficient and low maintenance luminaire
- IK06 Impact rated
- Available with IP44 or IP66 ingress protection for control gear chamber
- Tool-less entry to control gear chamber using stainless steel quick release clips and removable 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.

Approvals^

- GE's Evolve P4P5 luminaire is registered on NEM's load table for un-metered loads
- The luminaire is type-approved by various Distribution companies and Councils around Australia.



Product ID	Module	Power System	Optical	CCT	Dimming	Finish Colour	IP	Fuse
ERR= LED Evolve Roadway Residential	A= Standard B= Aero Screen C = RRW	14 = 14W	P = P4/P5	40 = 4000K 30 = 3000K	V = 1-10V D1 = DALI 1.0 D2 = DALI 2.0 D2ZG = DALI 2.0 SR + Zhaga	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