

PEARL PROFESSIONAL IP65 - SER II

Pearl Professional Circular IP65, 3000-6500K, 450 mm - SER

II

- Vandal-proof IK08 rating
- IP65 weatherproof rating
- Power monitoring (DT51)
- Tuneable white (DT8-Tc) controlled by DALI
- Flicker-free dimming controlled by DALI
- LED Lifetime >120,000 hours
- 12 years design life at max. ambient
- DALI (IEC62386)
- Emergency models fully compliant (AS/NZS 2293.3)
- Soft-start charger to reduce building load
- High Quality Lithium battery (LiFePO4) and smart charger
- Microwave sensor suitable for DALI-2 supporting IEC 62386-303
- Corridor mode function in standalone operation
- Self-test (AS2293/IEC62034)



ORDERING INFORMATION

| | |
|---|---|
| Order code | 11964 |
| Description | Ektor Pearl Emergency Circular Pro - 25W IP65 Tuneable White w/sensor |
| Driver Type | DALI DT1 and DT8 Dimmable |
| Dimmable ~ Includes DALI-2 Driver with full support for DT1, DT6 and DT8-tc allowing flicker free dimming and colour control with compliant DALI-2 Application controllers. DALI DT8 ~ Includes DALI-2 Driver with full support for DT6 and DT8-tc allowing flicker free dimming and colour control with compliant DALI-2 Application controllers. | |
| Item Code | EV-PEARL-PRO-IP65-EM-S |

MECHANICAL

| | |
|--------------------------|---------------|
| Body Material | Polycarbonate |
| Diffuser Material | Polycarbonate |
| Fitting Colour | White |
| IK Rating | IK08 |
| Installation Type | Surface mount |
| IP Rating | IP65 |

ELECTRICAL

| | |
|---|---------|
| Electrical Rating | Class I |
| Input Frequency | 50 Hz |
| Input voltage | 230Vac |
| In Australia the Input voltage is defined as 230Vac -6%/+10%. This effectively means that the voltage range of these products are 216Vac - 253Vac or 240V +6% | |
| Maximum Wattage | 27 W |
| Power Factor | 0.95 |
| Standby Power | 0.3 W |

Standby power for non-maintained/switched maintained emergency devices is measured when the light is off and the charger is in standby mode. For maintained emergency devices, standby power is measured when the light is on and the charger is in standby mode. Typically, charging occurs for the first 16 hours after the device is powered or after a battery discharge.

| | |
|--|---------------------------------|
| Switch Type | Inbuilt Mains Rated DALI Switch |
| A Terminal input has been provided to allow the wiring of a Main rated switch input. This input can be programmed to switch any controlled area when using a DALI-2 compliant control system. This input supports IEC62386-301 (momentary or rocker switches), IEC62386-302 (on /off switches) and IEC62386-303 (mains rated sensor inputs). | |

| | |
|---------------------------|------------|
| Working Temp Range | 0 to 40 °C |
|---------------------------|------------|



| LAMP | |
|--|------------------------|
| Macadam Steps (SDCM) | 3-step MacAdam Ellipse |
| CCT Configuration | TUNEABLE WHITE |
| Full support for DALI-2 DT8 has been provided which allows White colour control on a compliant DALI-2 control system. This function can be used to set a desired colour or to transition between colours depending on the time of day. | |
| Colour Rendering Index (CRI) | >84 |
| Lamp/LED Current | 650 mA |
| Lamp/LED voltage | 33 V |

| LED LIFETIME | |
|---|--------------------------|
| LED Lifetime | >120000 hrs |
| This is the Reported LED Lifetime in Hours based on TM-21. Atom does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below. | |
| Ambient Temp (°C) | 25 °C 40 °C |
| L90B10 | 43000 hrs 43000 hrs |
| This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717. | |
| TM-21 Test Hours | 20000 hrs |

| COLOUR TEMPERATURE | |
|--|---------------|
| CCT | 3000 to 6500 |
| CCT Colour | Tunable White |
| Luminaire Lumens | >3200 lm |
| All photometric data has a tolerance of ±10%. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire. | |

| DRIVER | |
|---|---------------------------|
| Dimmable | Yes |
| Driver Included | Yes |
| Integrated Driver | No |
| Driver Type | DALI DT1 and DT8 Dimmable |
| Dimmable ~ Includes DALI-2 Driver with full support for DT1, DT6 and DT8-tc allowing flicker free dimming and colour control with compliant DALI-2 Application controllers. DALI DT8 ~ Includes DALI-2 Driver with full support for DT6 and DT8-tc allowing flicker free dimming and colour control with compliant DALI-2 Application controllers. | |

| | |
|---|--------------------------------------|
| Power Monitoring | DALI Device type 51 power monitoring |
| Inbuilt DALI-2 support for Device type 51 - Power monitoring for use with DALI-2 compliant control systems which allows the reporting of the products total power consumption for power aggregation and measurements. | |

| | |
|--|------------------------------------|
| Wiring Type | Re-wireable terminal block (6 pin) |
| PSTLM | 0.08 |
| Short Term Light Modulation (PstLM): The requirement is that PstLM should be less than or equal to 1.0. This metric measures the short-term flicker severity and ensures that flicker is not perceptible or is at a level that does not cause discomfort or health issues. | |
| SVM | 0.018 |
| Stroboscopic Visibility Measure (SVM): The requirement for SVM is that it should be less than or equal to 0.4. The SVM metric assesses the visibility of the stroboscopic effect, which can make moving objects appear to be stationary or moving in discrete steps, thus ensuring that this effect is minimized in lighting environments to prevent visual discomfort and safety hazards. | |

| SENSOR (S SUFFIX) | |
|---|-----------|
| Adjustable Detection Area / Sensitivity | Yes |
| Adjustable Hold Time | Yes |
| Adjustable Standby Level | Yes |
| Adjustable Standby Period | Yes |
| Corridor Function | Yes |
| Dawn Reset | No |
| Detection Range | 10 m |
| Dusk Mode | No |
| Lux Adjustment | No |
| Manual Override | Yes |
| Sensor Communication | DALI 2 |
| Inbuilt DALI-2 Sensor for use with DALI-2 Compliant control systems. Some features and functions are only available for use with DALI-2 Application controllers which support the features. This product also supports a standalone mode for limited use without a DALI-2 application controller. | |
| Sensor Type | Microwave |
| Switched Output | No |
| Time Delay | Via DALI |

| EMERGENCY (EM SUFFIX) | |
|--|----------------------|
| Replacement Battery Code | 01302 |
| Emergency Classification | C0:D40, C90:D40 |
| Emergency Control | DALI Monitored (DT1) |
| DALI Monitored ~ Supports Emergency test and monitoring over DALI (IEC62386) with full compliance to IEC62386-202. | |
| Emergency Duration | 90 mins |
| Emergency Mode | Maintained |
| Emergency Output Power | 2700 mW |

COMPLIANCE

Product Design Life 12 years

The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

Standards

- AS/NZS 60598.1
- AS 60598.2.22
- AS/NZS 61347.1
- AS/NZS 61347.2.13
- AS CISPR 15
- AS/NZS 2293.3
- AS/NZS 4268
- IEC 62386-102
- IEC 62386-103

WARRANTY

Commercial Use Warranty 5Y return to base on General lighting components
8Y return to base on Emergency lighting components

VIP Warranty 2 Onsite, 3 RTB (Total 5 Years)

VIP warranty is available to registered users and is subjected to additional terms and conditions.

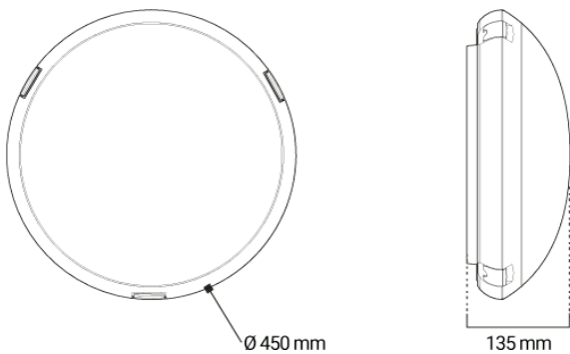
DIMENSIONS

Product Diameter 450 mm

Product Height 135 mm

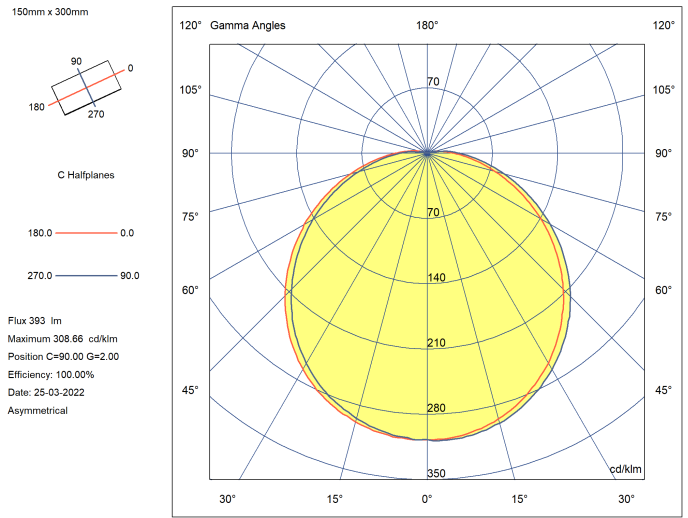
LINE DRAWINGS

EV/PEARL/PRO/IP65



PHOTOMETRICS

EV/PEARL/PRO/IP65 (EM)



EV/PEARL/PRO/IP65 (4000K)

