



FL800R

TECHNICAL DATASHEET

FL800R LED Floodlighting System provides an innovative new approach to floodlighting. To build a system, FL800R modules can be grouped as a luminaire in single, double, triple or quad configuration and arranged on a mast with full azimuth rotation and tilt function.

FL800R module uses AeroFlow® Cooling System to provide

exceptional thermal management. Maximised heat dissipation enables a compact luminaire design, which can be retrofitted onto existing masts.

Lumileds LUXEON® M LEDs and AeroFlow® together deliver high lumen output with very low lumen depreciation over life, to minimise energy and operating costs.



SPECIFICATION

| | | | | |
|--|---|---------------------|---------------------|---------------------|
| Light Source | Lumileds LUXEON® MX LED | | | |
| Number of LEDs | 18 (per module) | | | |
| Correlated Colour Temperature | Warm - 3000K, Neutral - 4000K, Cool - 5700K | | | |
| Colour Rendering Index | >70 | | | |
| Optical Cover | Flat glass | | | |
| Max. Luminaire Efficacy at full power | 119lm/W | | | |
| Max. Luminaire Efficacy | 135lm/W | | | |
| Electrical Class | I | | | |
| Lumen Maintenance output | L80 @ 100,000 hours, Ta = 45°C, L90 @ 100,000 hours, Ta = 25°C * Lumen depreciation calculated up to 100,000 hours using IES TM-21 method | | | |
| Operating Temperature | -40°C to +50°C | | | |
| Storage Temperature | -40°C to +80°C | | | |
| Installation Height | 10 ~ 50m | | | |
| Installation | Stirrup mount | | | |
| Material | Marine Grade Aluminium LM6 (module), Aluminium side plates, Galvanised steel stirrup | | | |
| Finish | Natural aluminium (module), Polyester powder coated RAL 9010 (side plates) | | | |
| Ingress Protection | IP66 | | | |
| Module Elevation Options | 40°, 45°, 50°, 55°, 60°, 65° (select at time of order) | | | |
| Luminaire Tilt (on site) | -15° to +15° in 2.5° steps | | | |
| Product Configuration | FL800R-1 | FL800R-2 | FL800R-3 | FL800R-4 |
| Max. luminous flux | 20,800 lm | 41,370 lm | 61,940 lm | 82,640 lm |
| Power Consumption ** Values for 300 - 800 mA Operation | 68 ~ 175W | 136 ~ 349W | 204 ~ 524W | 272 ~ 699W |
| Wind Area (EPA) | 0.054m ² | 0.094m ² | 0.097m ² | 0.094m ² |
| Weight (per module) | 6kg | 10kg | 14.5kg | 17.5kg |

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