

ENDURANCE LED LUMINAIRE FOR HAZARDOUS AREAS



McGeoch LED Technology has developed a new, innovative hazardous area LED light unit to meet the future of low energy, high efficiency and environmental lighting demands of all industries functioning in explosive atmospheres.

Endurance is a self contained LED luminaire replacement for traditional fluorescent lighting. These new units are particularly suitable for offshore and hazardous area applications.

Endurance features high power LEDs in a sealed package with constant current 700mA driver circuit for use on global mains supplies and additional low level emergency supplies. It also offers reduced power consumption, maintenance free operation and is completely and environmentally safe. Endurance light fittings also eliminate the problems of disposal associated with fluorescent tubes due to the mercury content.

Other key features include:

- Ingress protection IP68 (IP66 with breather drain fitted)
- Salt Spray—Lloyds register of Shipping Specification 1 2002, Salt Mist
- Vibration - Lloyds Register of Shipping Specification 1 2002, Test 1
- Storage temperature -20° to 60°C
- Area classification –Zone 1 and Zone 21 to EN 60079-0:2009 (Dust Group 11C), EN 60079-5:2007, EN 60079-7:2007, EN 60079-18:2009 and EN 60079-31:2009
- ATEX classification – Group 11 Category 2 GD
- Type of protection – Ex em b (increased safety and encapsulation) and Exq
- Temperature class – T5 (100°C) -20°C/+45°C - T4 (135°C) -20°C/+60°C
- Lens: Lexan polycarbonate UV and impact resistant
- Chassis: Marine grade aluminium casting hard anodised
- Stainless steel bezel
- Dimensions: 670mm x 202mm x 98mm
- Weight: 9.6kg
- Entry cable: supplied with flying leads or approved terminal box
- Control Gear: constant current voltage limited supply
- Voltage: 110V DC +/-10% and 110-254V AC (47-63Hz)
- CE and WEEE marked

Approvals

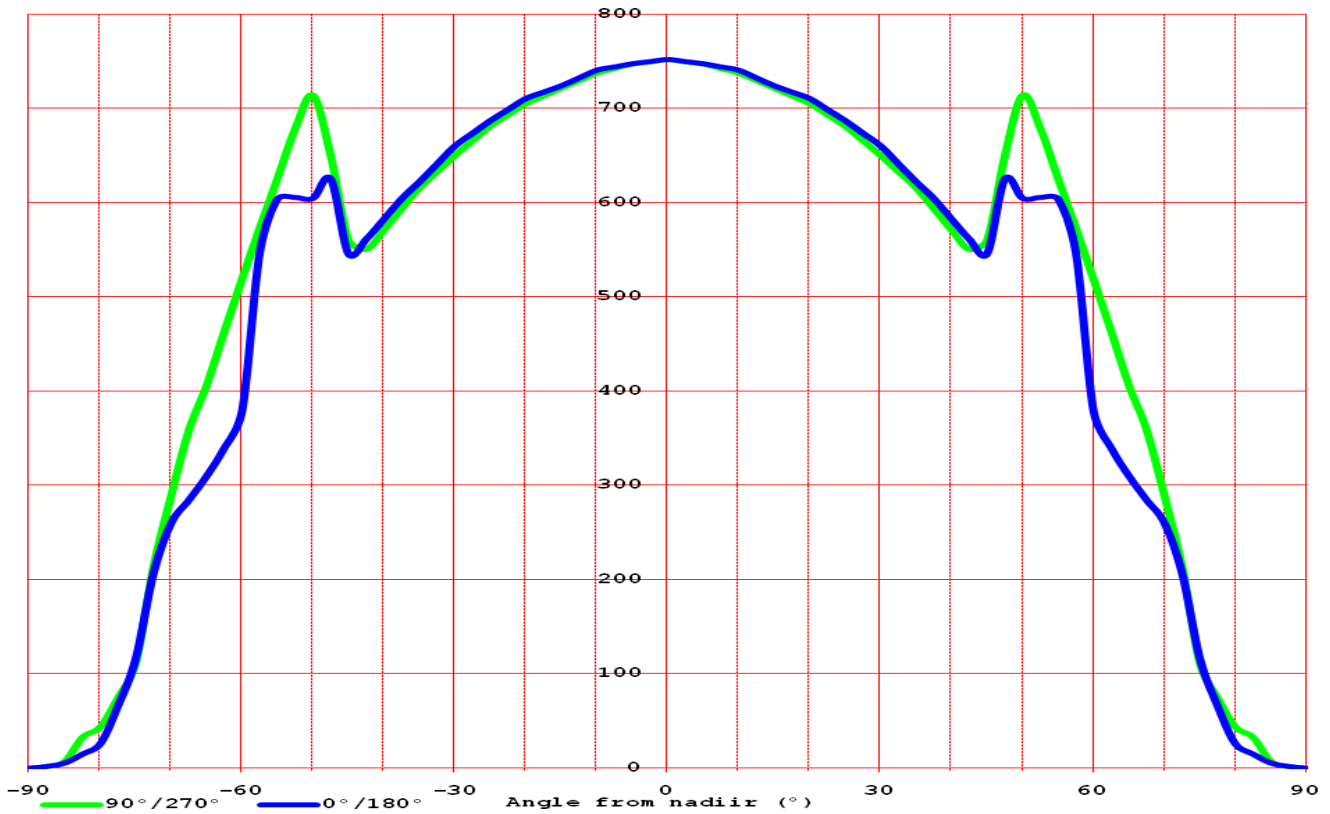
- ATEX approved—Certificate No. Baseefa11ATEX0136X
- IECEX classified—Certificate No. IECEX BAS 11.0102X Issue No.:0
- Factory sealed

Optical Properties

- Luminous flux = 2500 lm
- Colour temperature: 6500K (options available)
- CRI: 70 (options available)
- Luminance (Cd/m²) 11,100



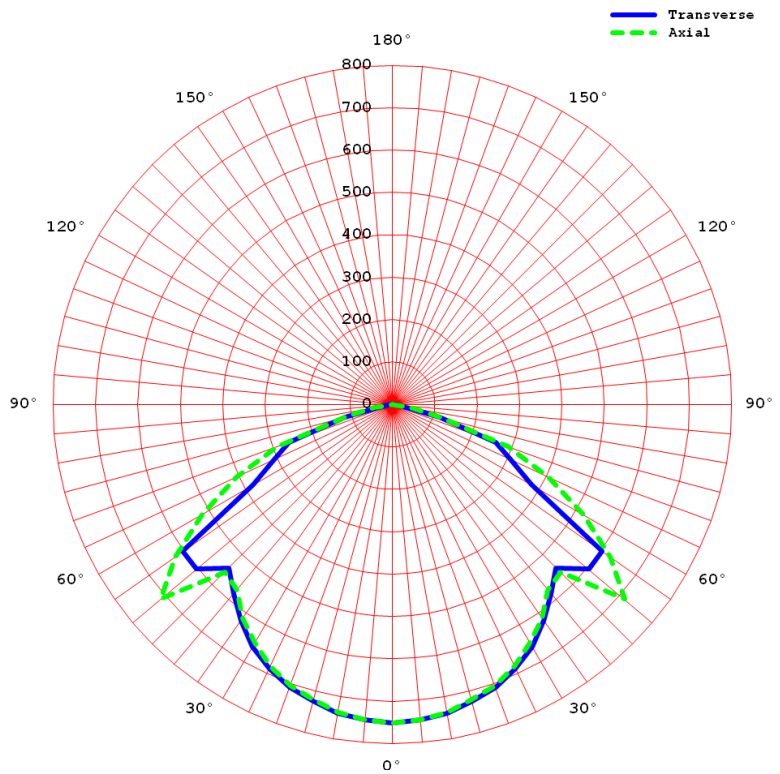
Average Principal Axes Luminous Intensities (cd) 2,500 1m measured



Average Luminous Intensities (cd)

Average Principal Axes Luminous Intensities (cd)
2,500 1m measured

Angle	Transverse Plane	Axial Plane
0°	751.70	751.70
5°	747.34	746.91
10°	740.44	737.19
15°	723.93	721.33
20°	710.37	704.92
25°	686.94	681.18
30°	660.11	649.99
35°	622.02	615.69
40°	582.52	570.81
45°	545.43	559.95
50°	604.54	713.97
55°	603.89	625.76
60°	379.05	518.96
65°	309.83	406.05
70°	259.89	289.09
75°	116.31	111.29
80°	25.77	43.75
85°	5.45	7.09
90°	0.00	0.00



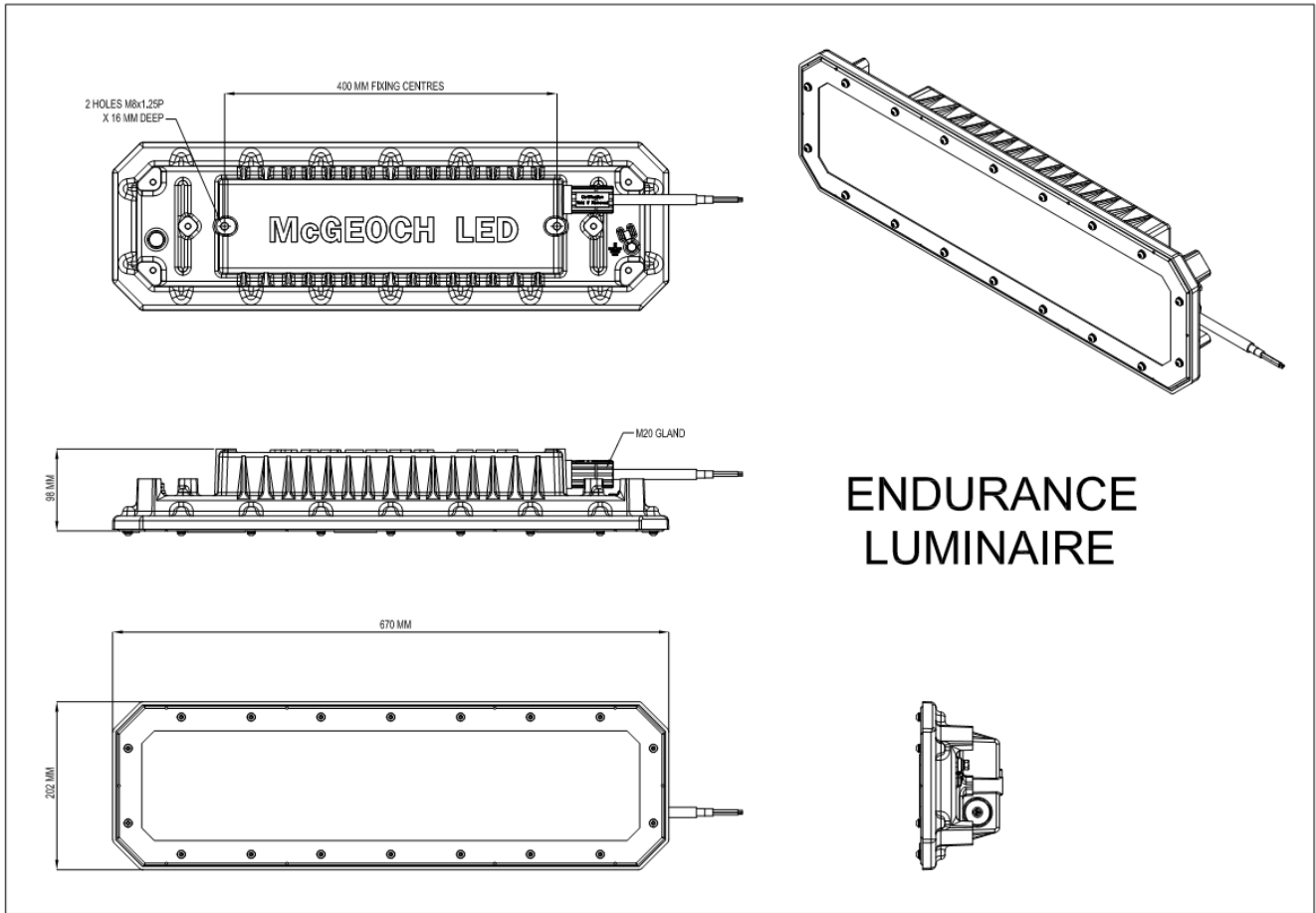
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**ENDURANCE
LUMINAIRE**

Dimensions:

- Length 670mm
- Width 202mm
- Depth 98mm

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