

UMBRA CORE IP65

Core IP65 Weatherproof Batten, Dual Power, Tri-CCT

- Tri-colour selection
- Selectable output power
- Increased ambient temperature of 40 degrees
- IP65 weatherproof rating and IK08 impact rating
- High efficiency design >130lm/W
- Excellent LED lifetime for energy efficient lighting designs



ORDERING INFORMATION	
Order code	12137
Description	UMBRA CORE 600mm LED Batten - Tri CCT
Driver Power	18 W
Driver Type	Fixed output
Item Code	EV-UMBRA-CORE-IP65-600-TRI

EFFICIENCIES	
Total System Efficiency	126 lm/W
<p>The performance of each component of a luminaire is demonstrated through its efficiencies, which together determine the total system efficiency of the product. The output of the LED chip is first multiplied by the optical and thermal efficiencies to calculate the Luminaire efficiency. However, this calculation does not consider the driver efficiency. To determine the overall efficiency of the system, the Luminaire efficiency must be multiplied by the driver efficiency, which accounts for all losses in the system.</p>	

MECHANICAL	
Body Material	Polycarbonate
Diffuser Material	Polycarbonate
Fitting Colour	Grey
IK Rating	IK08
Installation Type	Surface mount
IP Rating	IP65

ELECTRICAL	
Electrical Rating	Class I
Input Current	0.09 A
Input Frequency	50 Hz
Input voltage	230Vac
<p>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%</p>	
Maximum Wattage	19 W
Power Factor	0.95
Switch Type	Inline
Working Temp Range	-20 to 40 °C

LAMP	
Macadam Steps (SDCM)	6-step MacAdam Ellipse
CCT Configuration	TRI-CCT
Colour Rendering Index (CRI)	>80
Lamp/LED Current	350 mA
Lamp/LED voltage	44 V



LED LIFETIME

LED Lifetime >72000 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

L80B10 >72000 hrs >72000 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 70% 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 12000 hrs

COLOUR TEMPERATURE

9 Watts

4000 K 1080 lm

5000 K 1125 lm

6500 K 1080 lm

17 Watts

4000 K 2035 lm

5000 K 2150 lm

6500 K 1985 lm

DRIVER

Dimmable No

Driver Included Yes

Integrated Driver No

Driver Mode Constant Current

Driver Type Fixed output

Wiring Type Re-wireable terminal block (3 pin)

PSTLM 0.1

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 0.4

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.

ENERGY SAVINGS SCHEME

Ipact Approval Yes

REES Approval Yes

VEU Approval Yes

COMPLIANCE

Product Design Life 6 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.

Daily Use 12 hrs

The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards AS/NZS 60598.1
AS/NZS 60598.2.1
AS CISPR 15
AS/NZS 61347.1
AS/NZS 61347.2.13

WARRANTY

Commercial Use Warranty 5Y return to base on General lighting components
First 2Y includes an exclusive onsite warranty

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

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

Warranty Operating Hours 15000 hrs

This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Product Height 78 mm

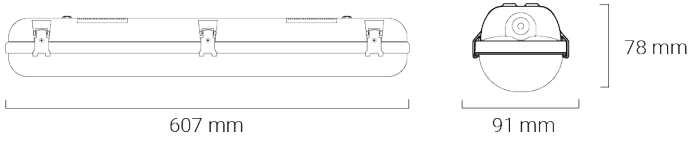
Product Length 607 mm

Product Width 91 mm

LINE DRAWINGS

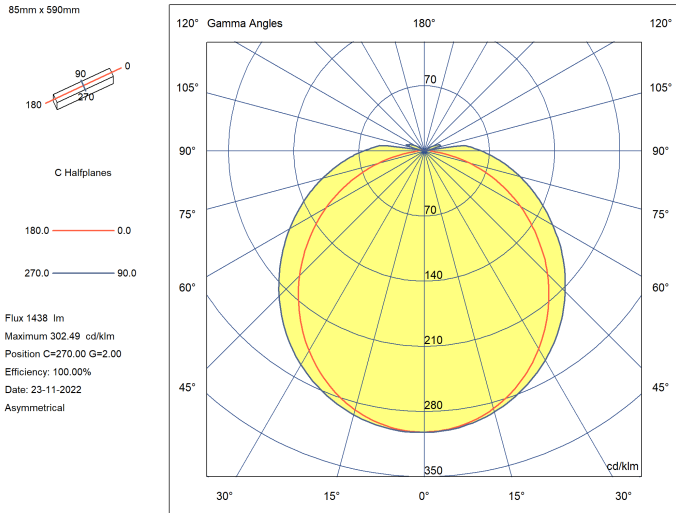


EV/UMBRA/CORE/IP65/600/TRI

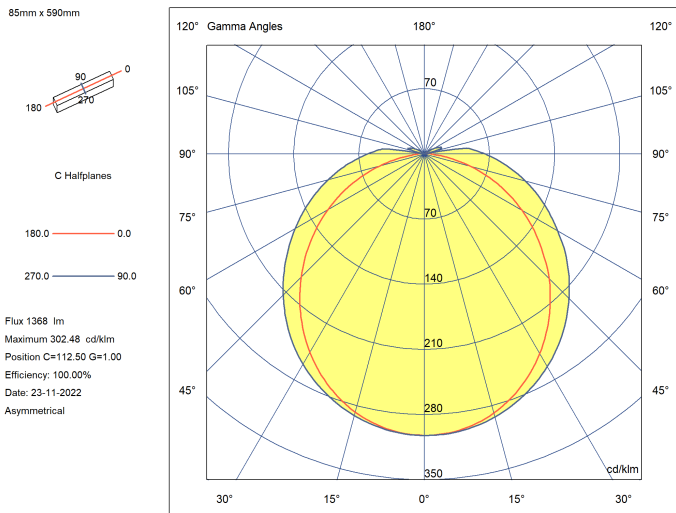


PHOTOMETRICS

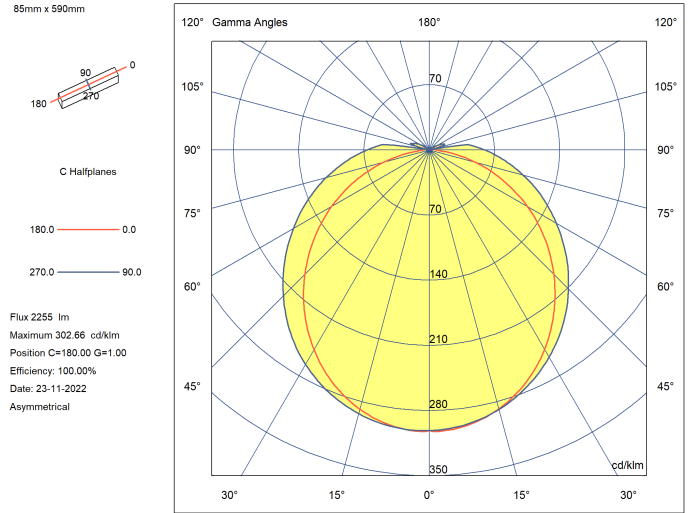
EV/UMBRA/CORE/IP65/600 (Half Power / 5000K)



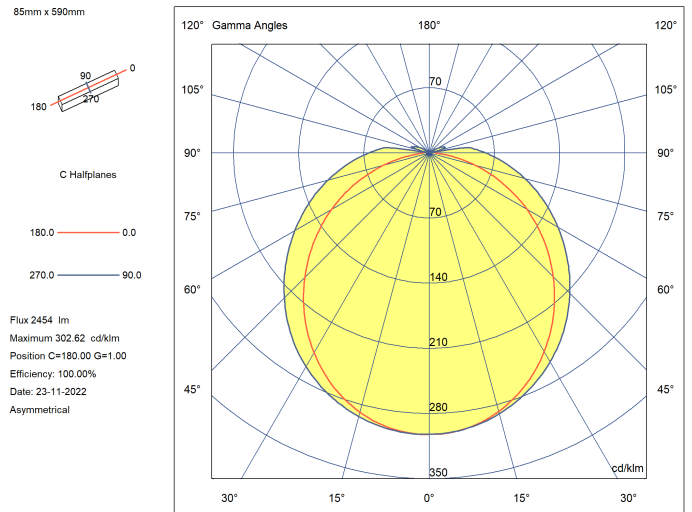
EV/UMBRA/CORE/IP65/600 (Half Power / 4000K)



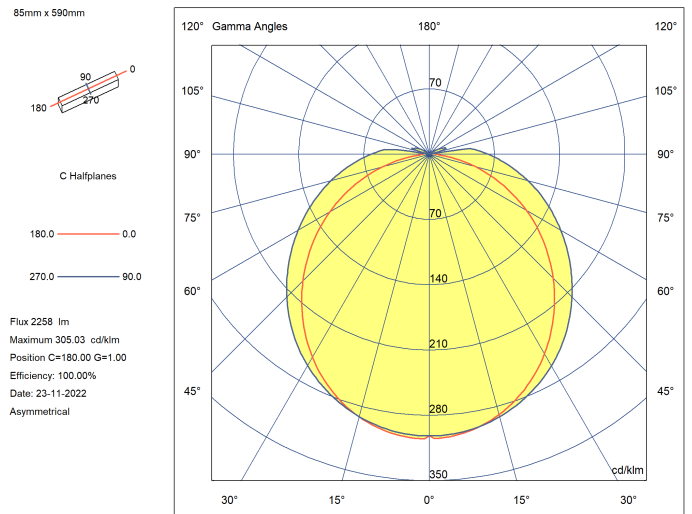
EV/UMBRA/CORE/IP65/600 (Full Power / 6500K)



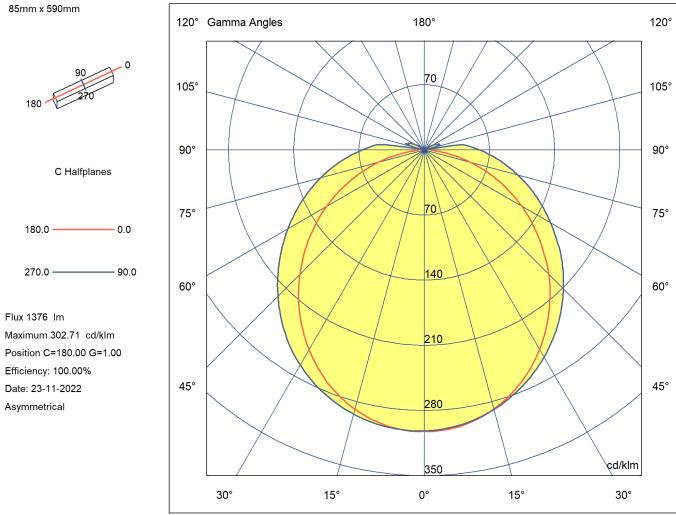
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EV/UMBRA/CORE/IP65/600 (Full Power / 4000K)



EV/UMBRA/CORE/IP65/600 (Half Power / 6500K)



ACCESSORIES

Order code	12130
Description	Umbra Core IP65 Stainless Steel 304 clips - Pack of 12
Item Code	EV-UMBRA-CORE-CLIPS