

UMBRA CORE II DIFFUSED

Core II Diffused Batten, Power Selectable, Tri-CCT

- Easy installation: new design makes it easy to install.
- High Efficiency: up to 124lm/W for top energy savings.
- Size Variety: Available in 600mm, 1200mm, 1500mm.
- Customisable CCT: Select from 4000K, 5000K, 6500K.
- Versatile Applications: EM and non-EM models available for all needs.
- Simplified Setup: Large terminal block for easier wiring.
- Impact Resilient: Built to withstand daily use.
- 5-Year Warranty: Long-term reliability guaranteed.



ORDERING INFORMATION

Order code	11864
Description	Umбра Core 1200mm Diffused Emergency LED Batten - Tri-CCT
Driver Type	Fixed output
Item Code	EV-UMBRA-CORE-II-DIFF-1200-EM

EFFICIENCIES

Total System Efficiency 124 lm/W

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.

MECHANICAL

IP Rating	IP20
IK Rating	IK08
Fitting Colour	White
Body Material	Powder coated steel
Diffuser Material	Polycarbonate
Installation Type	Surface mount

ELECTRICAL

Working Temp Range	0 to 40 °C
Input Frequency	50 Hz
Switch Type	Inline
Power Factor	0.9
Maximum Wattage	36 W
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%	
Input Current	0.16 A

LAMP

Colour Rendering Index (CRI)	>80
CCT Configuration	TRI-CCT
Macadam Steps (SDCM)	5-step MacAdam Ellipse

LED LIFETIME

LED Lifetime	>60000 hrs	
This is the Reported LED Lifetime in Hours based on TM-21. Ektor 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	44000 hrs	44000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the preceding 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 10000 hrs

COLOUR TEMPERATURE

18 Watts

4000 K 2350 lm
5000 K 2450 lm
6500 K 2300 lm

36 Watts

4000 K 3700 lm
5000 K 4100 lm
6500 K 3900 lm

DRIVER

Driver Type Fixed output
Driver Included Yes
Integrated Driver No
Dimmable No
Wiring Type Re-wireable terminal block (4 pin)
Driver Mode Constant Current
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.

EMERGENCY (EM SUFFIX)

Emergency Mode Combined
Emergency Classification C0:D50, C90:D32
Emergency Output Power 3000 mW
Replacement Battery Code 01302
Emergency Duration 90 mins
Emergency Lumen Output 380 lm

ENERGY SAVINGS SCHEME

Ipact Approval Yes
REES 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 60598.2.22
AS/NZS 61347.1
AS/NZS 61347.2.13
AS CISPR 15
AS/NZS 2293.3

WARRANTY

Commercial Use Warranty 5 RTB (Total 5 Years)

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).

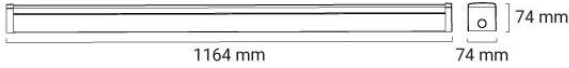
DIMENSIONS

Product Height 74 mm
Product Length 1164 mm
Product Width 74 mm

LINE DRAWINGS

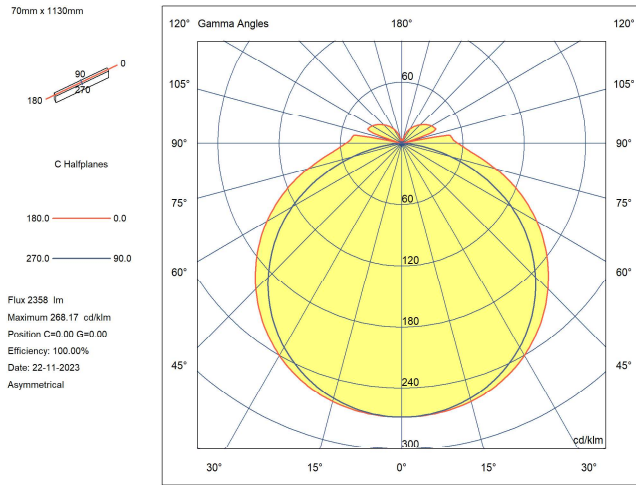


EV/UMBRA/CORE/II/DIFF/1200

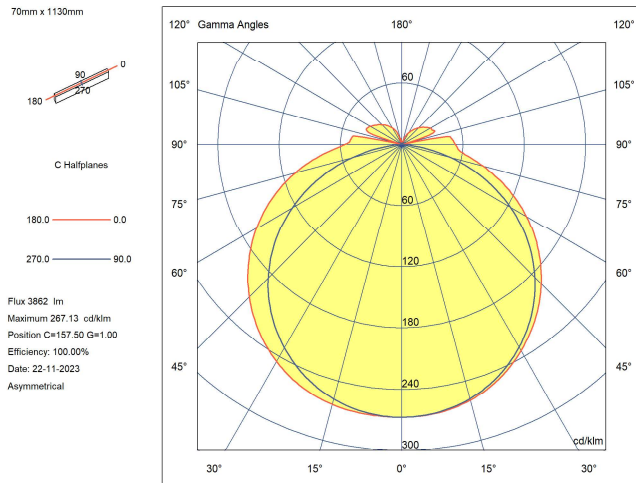


PHOTOMETRICS

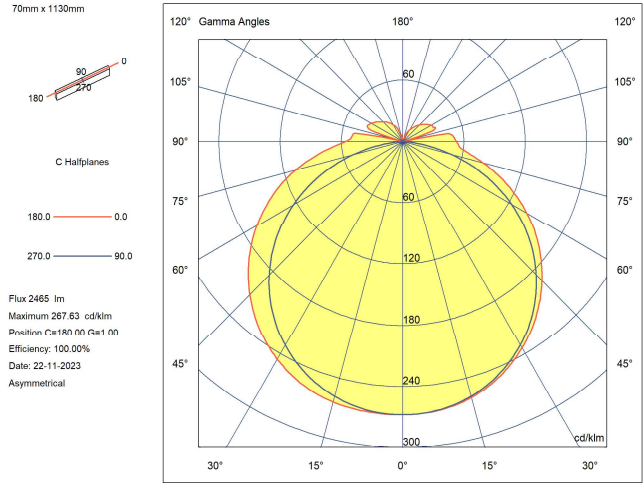
EV/UMBRA/CORE/II/DIFF/1200/EM (HALF POWER 4000K)



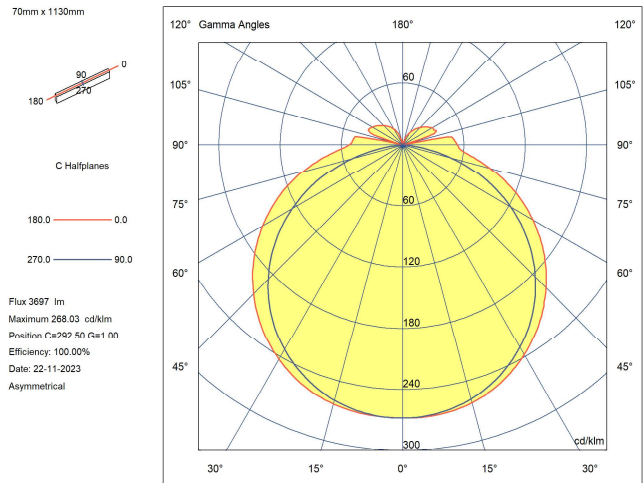
EV/UMBRA/CORE/II/DIFF/1200/EM (FULL POWER 6500K)



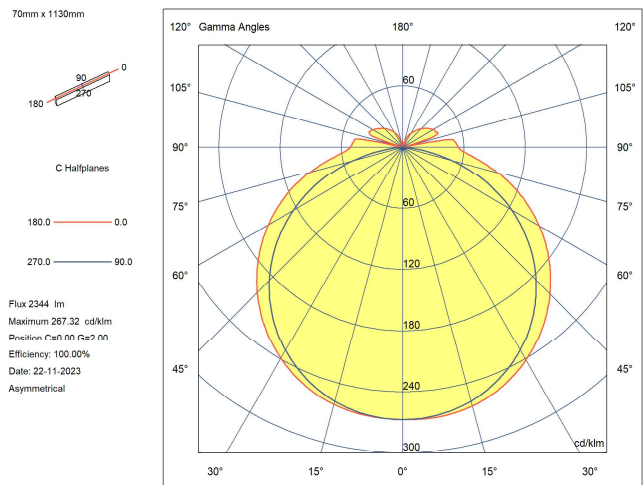
EV/UMBRA/CORE/II/DIFF/1200/EM (HALF POWER 5000K)



EV/UMBRA/CORE/II/DIFF/1200/EM (FULL POWER 4000K)



EV/UMBRA/CORE/II/DIFF/1200/EM (HALF POWER 6500K)





EV/UMBRA/CORE/II/DIFF/1200/EM (FULL POWER 5000K)

