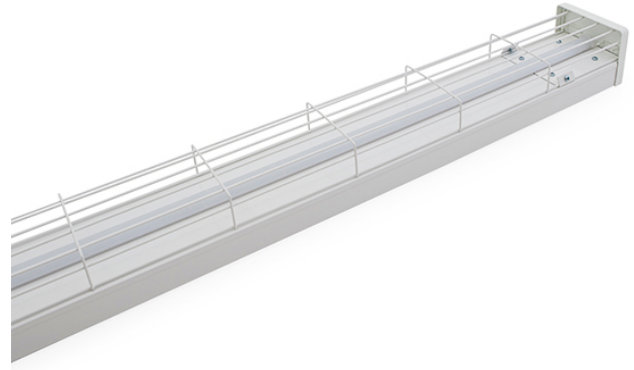


# UMBRA ADVANCED WIREGUARD

Advanced Wireguard Batten, Dual Power, Tri-CCT

- Tri-colour selection
- Long life electronics
- LED lifetime >60,000 hours
- 8 years design life at max. ambient
- Increased ambient temperature of 40 degrees
- Increased lumen efficiency
- Exclusive 5 year warranty
- Emergency models fully compliant (AS/NZS 2293.3)
- High quality lithium battery (LiFePO4) and smart charger included with emergency models



## ORDERING INFORMATION

<b>Order code</b>	12187
<b>Description</b>	UMBRA ADVANCED 1200mm Wireguard LED Emergency batten - Tri-CCT
<b>Driver Type</b>	Fixed output
<b>Item Code</b>	EV-UMBRA-ADV-WG-1200-EM-TRI

## EFFICIENCIES

**Total System Efficiency** 120 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

<b>Body Material</b>	Powder Coated Steel
<b>Diffuser Material</b>	PMMA
<b>Fitting Colour</b>	White
<b>Installation Type</b>	Surface mount
<b>IP Rating</b>	IP20

## ELECTRICAL

<b>Electrical Rating</b>	Class I
<b>Input Current</b>	0.2 A
<b>Input Frequency</b>	50 Hz
<b>Input voltage</b>	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%	
<b>Maximum Wattage</b>	38 W
<b>Power Factor</b>	0.9
<b>Standby Power</b>	1 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.	
<b>Switch Type</b>	Inline
<b>Working Temp Range</b>	0 to 40 °C

## LAMP

<b>Macadam Steps (SDCM)</b>	4-step MacAdam Ellipse
<b>CCT Configuration</b>	TRI-CCT
<b>Colour Rendering Index (CRI)</b>	>80
<b>Lamp/LED Current</b>	890 mA
<b>Lamp/LED voltage</b>	36 V



## LED LIFETIME

**LED Lifetime** >54000 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

**L70B10** >54000 hrs >54000 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** 10000 hrs

## COLOUR TEMPERATURE

### 20 Watts

4000 K 2250 lm

5000 K 2150 lm

6500 K 2000 lm

### 36 Watts

4000 K 4250 lm

5000 K 4350 lm

6500 K 3900 lm

## DRIVER

**Dimmable** No

**Driver Included** Yes

**Integrated Driver** No

**Driver Mode** Constant Current

**Driver Type** Fixed output

**Wiring Type** Re-wireable terminal block (4 pin)

**PSTLM** 0.09

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** 0.012

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)

**Replacement Battery Code** 01302

**Emergency Classification** C0:D63, C90:D40

**Emergency Duration** 90 mins

**Emergency Lumen Output** 400 lm

**Emergency Mode** Maintained

**Emergency Output Power** 3400 mW

## ENERGY SAVINGS SCHEME

**Ipart Approval** Yes

**REES Approval** Yes

**VEU Approval** Yes

## COMPLIANCE

**Product Design Life** 8 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** 16 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** 5Y return to base on General lighting components  
6Y return to base on Emergency 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** 25000 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	93 mm
Product Length	1230 mm
Product Width	130 mm

## LINE DRAWINGS

EV/UMBRA/ADV/WG

