



# EV-UMBRA-ADV-DIFF-600-TRI

Advanced Diffused Batten

## FEATURES

- Tri-colour selection
- Long life electronics
- LED lifetime >60,000 hours
- 7 Years Design Life - 60,000 hours at max. ambient
- Increased ambient temperature of 40°
- Increased lumen efficiency
- Exclusive 5 year warranty



### MECHANICAL

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

### ELECTRICAL

Electrical Rating	Class I
Input Current	0.1 A
Input Frequency	50 Hz
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%	
Maximum Wattage	17 W
Power Factor	0.9
Switch Type	Inline
Working Temp Range	0 to 40 °C

### LAMP

Macadam Steps (SDCM)	4-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	350 mA
Lamp/LED voltage	42 V
System Efficiency	118 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>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.		
<b>Ambient Temp (°C)</b>	25 °C	40 °C
<b>L90B10</b>	23000 hrs	23000 hrs
<b>L80B10</b>	47000 hrs	47000 hrs
<b>L70B10</b>	>60000 hrs	>60000 hrs
<b>L70B50</b>	>60000 hrs	>60000 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
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## COLOUR TEMPERATURE

### 9 Watts

Warm White (4000K)	1100 lm
Cool White (5000K)	1150 lm
DayLight (6500K)	1100 lm

### 17 Watts

Warm White (4000K)	1850 lm
Cool White (5000K)	2000 lm
DayLight (6500K)	1850 lm

## DRIVER

Dimmable	No
Driver Included	Yes
Integrated Driver	No
Driver Type	Fixed output
Wiring Type	Re-wireable terminal block (3 pin)

## COMPLIANCE

Product Design Life	70000 hrs
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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 lifetime of the LEDs. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

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

Commercial Use Warranty	2 Onsite, 3 RTB (Total 5 Years)
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This product is covered with our extended commercial use warranty, which covers the product for up to 5-years. The first 2-years of the warranty is provided onsite within our terms and conditions and the remaining 3-year period is covered by a return to base warranty.

## DIMENSIONS

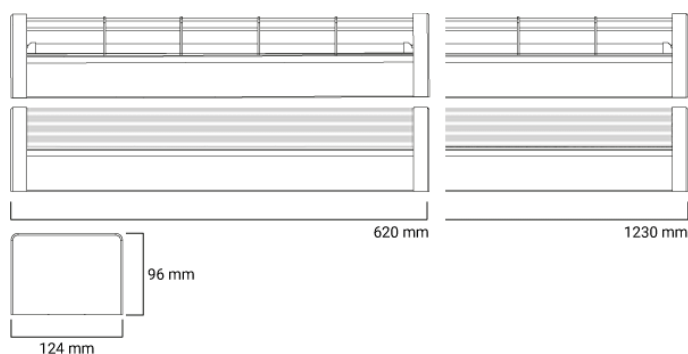
Product Height	93 mm
Product Length	620 mm
Product Width	130 mm

## ORDERING INFORMATION

Order code	12180
Description	UMBRA ADVANCED 600mm LED batten - Tri-CCT
Item Code	EV-UMBRA-ADV-DIFF-600-TRI

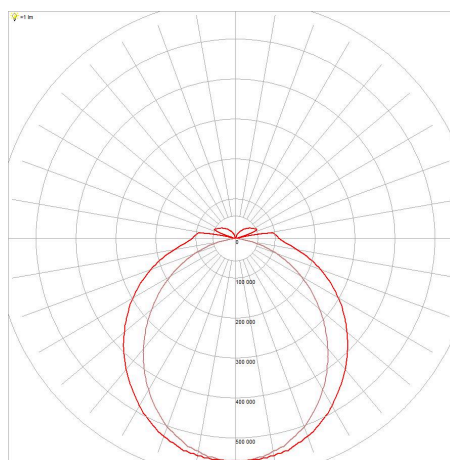
## LINE DRAWINGS

### EV/UMBRA/ADV/DIFF



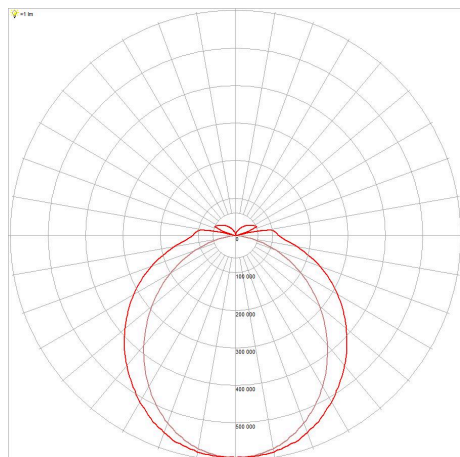
## PHOTOMETRICS

### UMBRA\_ADV\_DIFF\_600MM\_FULL\_POWER\_6500K





UMBRA\_ADV\_DIFF\_600MM\_FULL\_POWER\_5000K



UMBRA\_ADV\_DIFF\_600MM\_FULL\_POWER\_4000K

