UMBRA IP66 SERIES III

IP66 Weatherproof LED Batten, Tri-CCT

- Tri-colour CCT selection (3000K/4000K/5700K)
- IP66 weatherproof rating and IK08 impact rating
- Polycarbonate body with stainless steel clips
- Ektor One dimmable driver
- Exclusive 5 year warranty
- High lumen output (5200lm at 144lm/W)
- Surface mount installation with SS304 clips
- Ektor One microwave sensor via Zhaga Book 20
- Emergency models fully compliant (AS/NZS 2293.3)
- LiFePO4 battery with Ektor One monitoring

ORDERING INFORMATION

Order code	15508
Description	Umbra 1200mm Tri-CCT Weatherproof Batten - One Driver with One Sensor and One Emergency
Driver Type	Lynk Wireless or DALI-2 with DT6
Item Code	EV-UMBRA-IP66-1200-ONE-EMO-SO

EFFICIENCIES

Total System Efficiency	144 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	IP66
IK Rating	IK08
Fitting Colour	Grey
Body Material	Polycarbonate
Diffuser Material	Polycarbonate
Installation Type	Surface mount

ELECTRICAL

Working Temp Range	0 to 40 °C
Input Frequency	50 Hz
Power Factor	0.9
Maximum Wattage	36 W
Input voltage	220-240V~
Input Current	0.2 A
Standby Power	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.

LAMP

Colour Rendering Index (CRI)	>80
Macadam Steps (SDCM)	3-step@3000K & 5700K, 5-step@4000K

LED LIFETIME

LED Lifetime	>108000 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	55000 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

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TM-21 Test Hours	18000 hrs

COLOUR TEMPERATURE

22 Watts		
3000 K	2900 lm	>83 CRI
4000 K	3080 lm	>85 CRI
5700 K	3030 lm	>83 CRI
36 Watts		
3000 K	4730 lm	>83 CRI
4000 K	5200 lm	>85 CRI
5700 K	4920 lm	>83 CRI

DRIVER

Driver Type	Lynk Wireless or DALI-2 with DT6
Driver Included	Yes
Integrated Driver	No
Dimmable	Yes
Driver Mode	Constant Current
Flicker Free	Yes
PSTLM	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.

SENSOR (S SUFFIX)

Sensor Type	Microwave
Detection Range	10 m
Time Delay	5s-14mins
Switched Output	No
Corridor Function	Yes
Lux Adjustment	Yes
Dusk Mode	Yes
Adjustable Hold Time	Yes
Adjustable Standby Level	Yes
Adjustable Standby Period	Yes
Adjustable Detection Area / Sensitivity	Yes

Sensor Communication	DALI 2

Inbuilt DALI-2 Sensor for use with DALI-2 Compliant control systems. Some features and functions are only available for use with DALI-2 Application controllers which support the features. This product also supports a standalone mode for limited use without a DALI-2 application controller.

EMERGENCY (EM SUFFIX)

Emergency Classification	C0:D63, C90:D40
Emergency Output Power	3200 mW
Replacement Battery Code	53023
Emergency Duration	120 mins
Emergency Lumen Output	400 lm
Emergency Control	Lynk Wireless or DALI-2

COMPLIANCE

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15

WARRANTY

Warranty	8 Year Warranty, RTB

The total warranty period is shown above. Where an on-site period is listed, the first years are covered on-site, with return-to-base coverage for the remainder. For full warranty details and claim instructions, please refer to our Warranty page.

LINE DRAWINGS

EV/UMBRA/IP66/1200

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PHOTOMETRICS

EV/UMBRA/IP66/1200 (22W 4000K)

EV/UMBRA/IP66/1200 (22W 4000K)

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UGR

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dim.	**Viewed Crosswise**					**Viewed Endwise**				
x=2H y=2H	19.8	21.5	20.1	21.8	22.1	18.9	20.6	19.2	20.9	21.2
x=2H y=3H	22.0	23.6	22.4	23.9	24.3	20.5	22.1	20.9	22.4	22.8
x=2H y=4H	23.1	24.6	23.5	25.0	25.4	21.2	22.7	21.6	23.1	23.4
x=2H y=6H	24.3	25.7	24.7	26.1	26.4	21.7	23.2	22.1	23.5	23.9
x=2H y=8H	24.8	26.2	25.2	26.6	27.0	21.9	23.3	22.3	23.7	24.0
x=2H y=12H	25.5	26.9	25.9	27.2	27.6	22.0	23.4	22.4	23.8	24.1
x=4H y=2H	20.6	22.1	21.0	22.4	22.8	19.9	21.3	20.3	21.7	22.1
x=4H y=3H	23.0	24.3	23.5	24.7	25.2	21.8	23.0	22.2	23.4	23.9
x=4H y=4H	24.3	25.5	24.8	25.9	26.4	22.6	23.7	23.1	24.2	24.7
x=4H y=6H	25.6	26.7	26.1	27.1	27.6	23.3	24.3	23.8	24.8	25.3
x=4H y=8H	26.3	27.3	26.8	27.8	28.3	23.5	24.5	24.0	25.0	25.5
x=4H y=12H	27.1	28.0	27.6	28.5	29.0	23.7	24.6	24.2	25.1	25.6
x=8H y=4H	24.8	25.7	25.3	26.2	26.7	23.3	24.3	23.9	24.7	25.3
x=8H y=6H	26.3	27.1	26.9	27.6	28.2	24.3	25.0	24.8	25.5	26.1
x=8H y=8H	27.2	27.9	27.8	28.4	29.0	24.7	25.3	25.2	25.9	26.5
x=8H y=12H	28.2	28.8	28.7	29.3	29.9	25.0	25.6	25.6	26.1	26.8
x=12H y=4H	24.8	25.7	25.3	26.2	26.7	23.5	24.4	24.0	24.9	25.4
x=12H y=6H	26.5	27.1	27.0	27.7	28.3	24.6	25.2	25.1	25.8	26.4
x=12H y=8H	27.4	28.0	28.0	28.6	29.2	25.1	25.7	25.7	26.2	26.8
Variations										
S = 1.0 H	0.2 / -0.8					0.2 / -0.8				
S = 1.5 H	0.9 / -0.6					1.0 / -0.9				
S = 2.0 H	0.4 / -1.5					0.5 / -1.8				

AS/NZS 1680.2 specifies the UGR value is rounded by +/- 1.5. For example values between 20.5 and 23.5 are considered to be UGR 22. The data in the table below lists the corrected UGR values.

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