

QUADRO ADVANCED

Quadro Advanced Bunker IP65, Tri-colour, Dual Power

- IP65 weatherproof rating and vandal-proof IK08 rating
- 8 years design life at max. ambient
- Tri-colour selectable 3000K / 4000K / 6000K
- Emergency and non-emergency models
- Selectable power consumption: 20W or 12W
- Single Point Unit (SPU)
- High quality lithium battery (LiFePO4)



ORDERING INFORMATION	
Order code	14521
Description	Ektor Quadro LED Emergency bunker IP65
Driver Type	Fixed output
Item Code	EV-QUADRO-EM-ADV

EFFICIENCIES	
Total System Efficiency	130 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
IK Rating	IK08
Installation Type	Surface mount
IP Rating	IP65

ELECTRICAL	
Electrical Rating	Class I
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>	
System Max Wattage	23 W
Working Temp Range	0 to 40 °C

LAMP	
Macadam Steps (SDCM)	5-step MacAdam Ellipse
Colour Rendering Index (CRI)	>80
Lamp/LED Current	460 mA
Lamp/LED voltage	36 V

LED LIFETIME		
Ambient Temp (°C)	25 °C	40 °C
L90B10	42000 hrs	38000 hrs
<p>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.</p>		
TM-21 Test Hours	9000 hrs	

COLOUR TEMPERATURE

9 Watts

3000 K	1100 lm
4000 K	1350 lm
6000 K	1300 lm

18 Watts

3000 K	2200 lm
4000 K	2650 lm
6000 K	2600 lm

DRIVER

Dimmable	No
Driver Included	Yes
Integrated Driver	No
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	1302
Emergency Classification	C0:D50, C90:D50
Emergency Duration	90 mins
Emergency Mode	Maintained

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.

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1 AS/NZS 61347.2.13 AS/NZS 61058.1 AS/NZS 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
--------------------------------	--

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

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

DIMENSIONS

Product Height	102 mm
Product Length	275 mm
Product Width	275 mm

LINE DRAWINGS

EV/QUADRO/ADV

