HOVER PRO

Hover Pro Highbay

- Quality highbay delivering highly energy-efficient illumination up to 190lm/W
- 120 degree beam provides broad coverage
- Long-lasting performance with LED lifetime of >60,000 hours
- Designed to function in a range of temperatures, from -30 to 50°C, making it ideal for use in a variety of conditions
- IP65 rating provides exceptional resistance to weather and moisture
- IK08 rated, making it capable of handling the toughest industrial and commercial environments
- Optional motion sensor detects movement and turns off light for additional power savings

ORDERING INFORMATION

Order code	12016
Description	Hover Professional 200W Highbay - 190lm/W - CRI80 - 120 degree - 5000K
Driver Type	1-10V dimmable
Item Code	EV-HOVER-PRO-200W-50K

EFFICIENCIES

Total System Efficiency	190 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

Body Material	Alluminium alloy
Diffuser Material	Clear plastic
Fitting Colour	Black
IK Rating	IK08
Installation Type	Suspended
IP Rating	IP65

ELECTRICAL

Earth Leakage	0.75 mA
Electrical Rating	Class I
Input Current	2 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%

Inrush Current	100 A
Maximum Wattage	200 W
Surge Protection L/N-PE	6kV
Surge Protection L-N	6kV
Working Temp Range	-30 to 50 °C

LAMP

Macadam Steps (SDCM)	3-step MacAdam Ellipse
Beam Angle	120 °
CCT Configuration	Single
Colour Rendering Index (CRI)	>80

LED LIFETIME

LED Lifetime	>60000 hrs

This is the Reported LED Lifetime in Hours based on TM-21. Atom 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	48000 hrs	46000 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

CCT	5000 K
Luminaire Lumens	38000 lm

All photometric data has a tolerance of ±10%. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Driver Type	1-10V dimmable
Flex & Plug or Lead Length	1500 mm
Wiring Type	Re-wireable Flex & Plug (3 pin)
PSTLM	0.004

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	0.001

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.

ENERGY SAVINGS SCHEME

Ipart Approval	Yes
REES Approval	Yes
VEU Approval	Yes

COMPLIANCE

Product Design Life	12 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	20 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/NZS 60598.2.1
	AS/NZS 61347.1
	AS/NZS 61347.2.13
	AS CISPR 15

WARRANTY

Commercial Use Warranty	5 RTB (Total 5 Years)
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	30000 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).
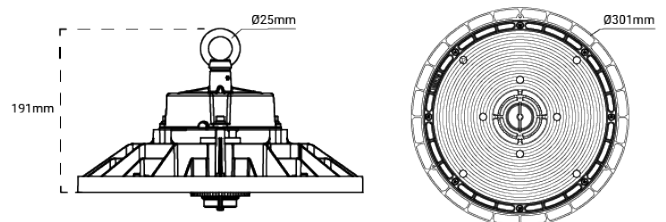
DIMENSIONS

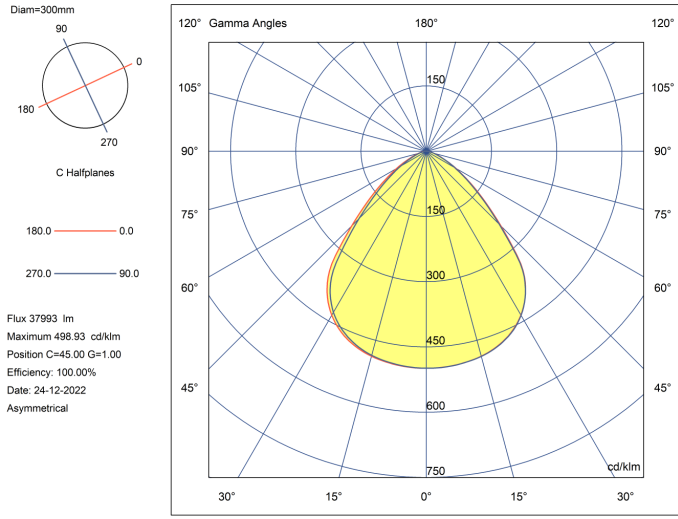| Product Diameter	300 mm
Product Height	191 mm

LINE DRAWINGS

EV/HOVER/PRO/200W/50K

PHOTOMETRICS

EV/HOVER/PRO/200W/50K (with 90deg lens)

Diam=300mm

C Halfplanes

180.0 —— 0.0

270.0 —— 90.0

Flux 37993 lm
Maximum 498.93 cd/klm
Position C=45.00 G=1.00
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical

EV/HOVER/PRO/200W/50K

Diam=300mm

C Halfplanes

180.0 —— 0.0

270.0 —— 90.0

Flux 37366 lm
Maximum 327.44 cd/klm
Position C=180.00 G=7.00
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical
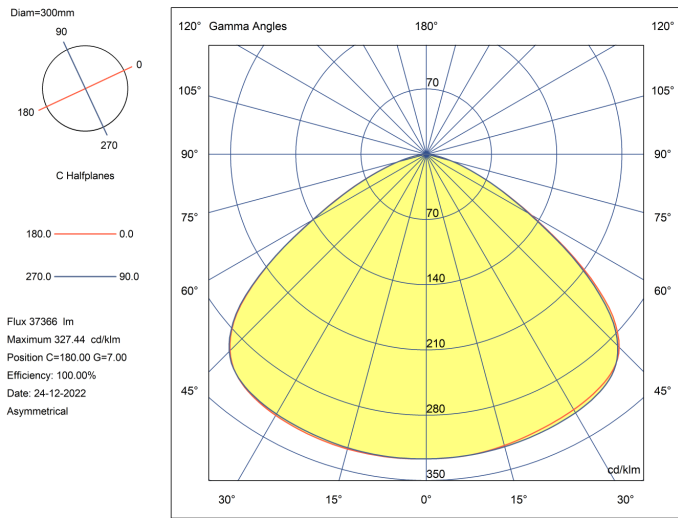
EV/HOVER/PRO/200W/50K (with Reflector)

Diam=560mm

C Halfplanes

180.0 —— 0.0

270.0 —— 90.0

Flux 36771 lm
Maximum 365.12 cd/klm
Position C=90.00 G=5.00
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical
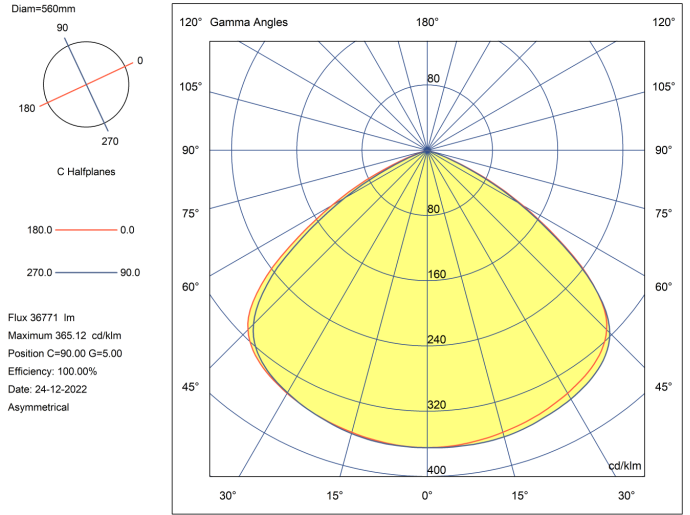
EV/HOVER/PRO/200W/50K (with Diffuser)

Diam=421mm

C Halfplanes

180.0 —— 0.0

270.0 —— 90.0

Flux 34486 lm
Maximum 366.32 cd/klm
Position C=112.50 G=28.00
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical
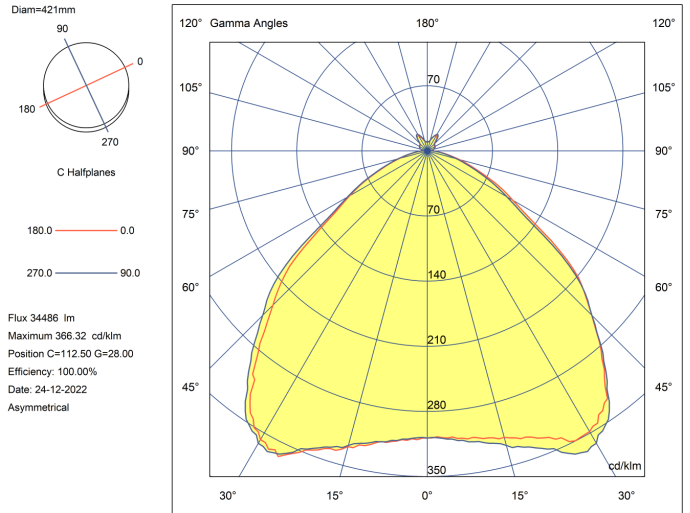
EV/HOVER/PRO/200W/50K (with 60deg lens)

Diam=300mm

C Halfplanes

180.0 —— 0.0

270.0 —— 90.0

Flux 37004 lm
Maximum 778.97 cd/klm
Position C=90.00 G=1.50
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical
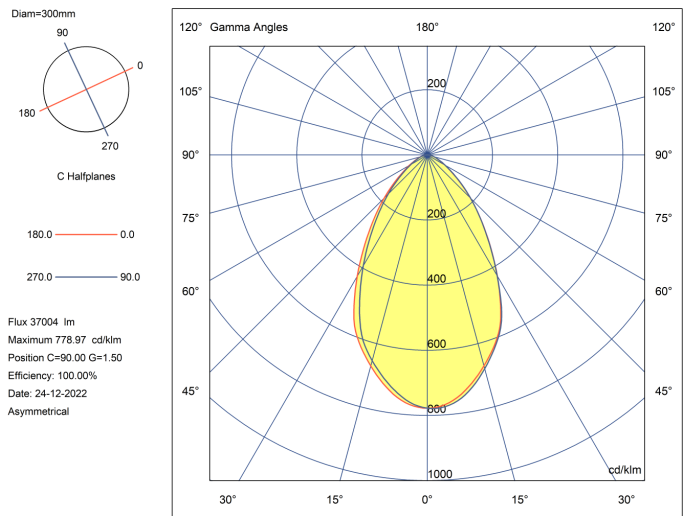
ACCESSORIES

ORDER CODE	ITEM CODE	DESCRIPTION
17719	EV-HOVER-BRACKET	Ceiling mount bracket for Ektor Hover Core 120W and 150W highbays
17724	EV-HOVER-SWITCH-200W-60D-LENS	60deg Lens for Ektor Hover Switch Adv and Pro 200W Highbays
17723	EV-HOVER-SWITCH-200W-90D-LENS	90deg Lens for Ektor Hover Switch Adv and Pro 200W Highbays
17720	EV-HOVER-SWITCH-200W-DIFFUSER	PC Diffuser for Ektor Hover Switch Adv and Pro 200W Highbays
17722	EV-HOVER-SWITCH-200W-REFLECTOR	Alu Reflector for Ektor Hover Switch Adv and Pro 200W Highbays
10730	EV-SENSOR-ZHAGA-MW-LK	Ektor Lynk smart sensor with Zhaga base - 0-10V output - w/wireless