# HOVER SWITCH ADV

Hover Switch Adv Power Adjustable Highbay

- Power adjustable switch for improved energy efficiency to suit the application
- Exceptional energy efficiency of up to 200lm/W, ensuring superior energy saving performance
- The LED lifetime of >60,000 hours offers long-lasting performance and reduces maintenance costs
- Versatile and reliable with the ability to operate efficiently in temperatures ranging from -30 to 50 degrees
- Built to withstand harsh weather conditions and moisture with an IP65 rating
- Standard 120-degree beam angle provides wide coverage, with optional retrofit optics* for greater flexibility
- Designed for industrial and commercial settings with IK08 rating for rugged durability
- Upgradeable with sensor through high-quality Zhaga book 18 socket for additional power savings and control flexibility
- Surge voltage rating of 6kV provides superior reliability and protection
- Select between 80W, 100W and 120W

## ORDERING INFORMATION

| | |
|---|---|
| **Order code** | 12014 |
| **Description** | Hover Switch Adv 120W Power Switch Highbay - 200lm/W - CRI70 - 5000K |
| **Driver Type** | 1-10V dimmable |
| **Item Code** | EV-HOVER-SWITCH-ADV-120W-50K |

## MECHANICAL

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

## EFFICIENCIES

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|---|---|
| **Total System Efficiency** | 200 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.

## ELECTRICAL

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|---|---|
| **Earth Leakage** | 0.75 mA |
| **Electrical Rating** | Class I |
| **Input Current** | 1.2 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** | 80 A |
| **Maximum Wattage** | 120 W |
| **Power Selection** | 80 / 100 / 120 W |
| **Surge Protection L/N-PE** | 6kV |
| **Surge Protection L-N** | 6kV |

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| **Working Temp Range** | -30 to 50 °C |

## LAMP

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| **Macadam Steps (SDCM)** | 5-step MacAdam Ellipse |
| **Beam Angle** | 120 ° |
| **CCT Configuration** | Single |
| **Colour Rendering Index (CRI)** | >70 |

## LED LIFETIME

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|---|---|
| **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 | 47000 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.

| | |
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| **TM-21 Test Hours** | 10000 hrs |

## COLOUR TEMPERATURE

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|---|---|
| **80 Watts** | |
| 5000 K | 16000 lm |
| **100 Watts** | |
| 5000 K | 20000 lm |
| **120 Watts** | |
| 5000 K | 24000 lm |

## DRIVER

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|---|---|
| **Driver Type** | 1-10V dimmable |
| **Flex & Plug or Lead Length** | 1500 mm |
| **Wiring Type** | Re-wireable Flex & Plug (3 pin) |
| **PSTLM** | 0.006 |

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.

| | |
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| **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

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|---|---|
| **Ipart Approval** | Yes |
| **REES Approval** | Yes |
| **VEU Approval** | Yes |

## COMPLIANCE

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|---|---|
| **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.

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| **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.

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| **Standards** | AS/NZS 60598.1<br>AS/NZS 60598.2.1<br>AS/NZS 61347.1<br>AS/NZS 61347.2.13<br>AS CISPR 15 |

## WARRANTY

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|---|---|
| **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.

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| **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

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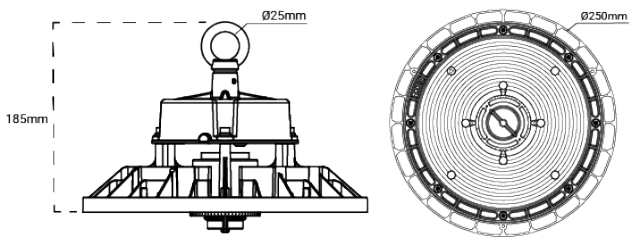
| **Product Diameter** | 250 mm |
| **Product Height** | 185 mm |

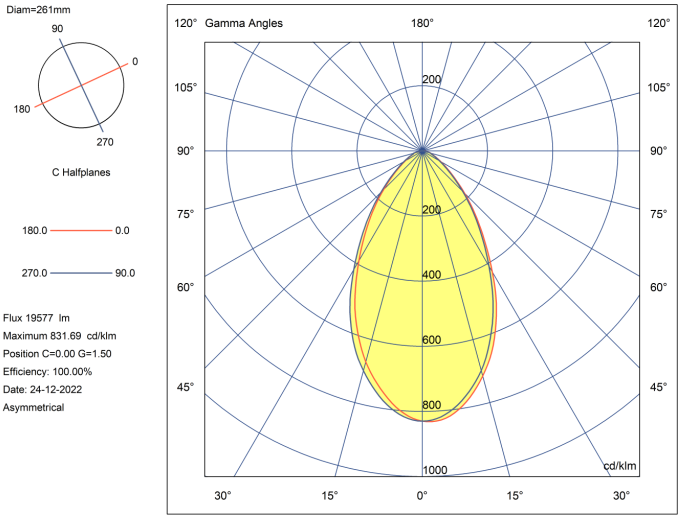
## LINE DRAWINGS

### EV/HOVER/SWITCH/ADV/120W/50K



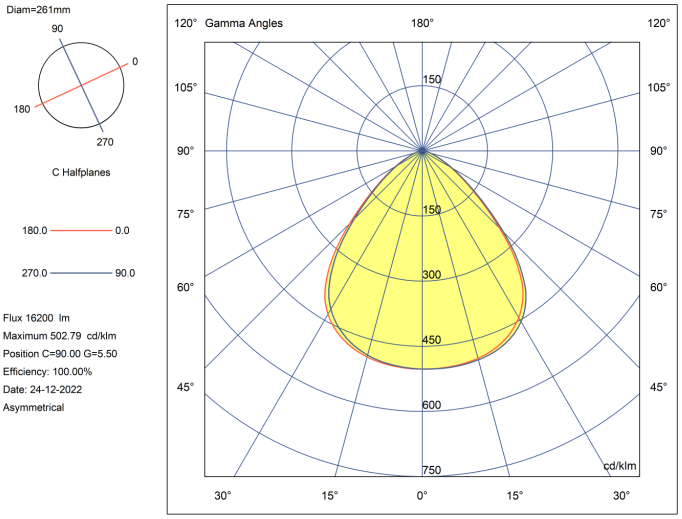

## PHOTOMETRICS

### EV/HOVER/SWITCH/ADV/120W/50K (100W with 60deg lens)



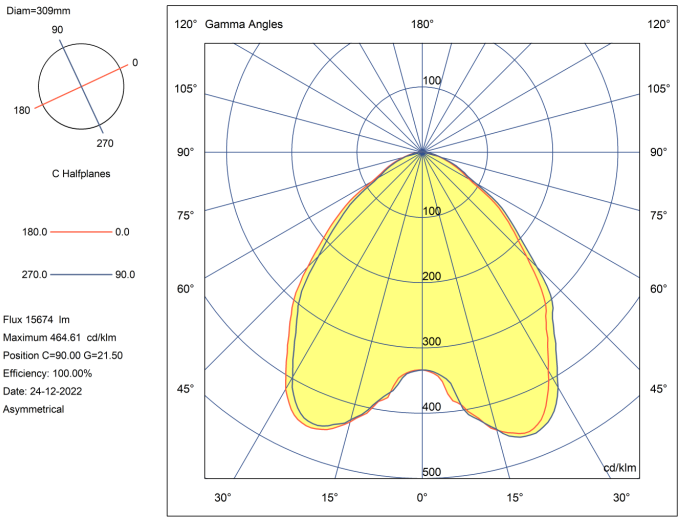

Flux 19577 lm
Maximum 831.69 cd/klm
Position C=0.00 G=1.50
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical

### EV/HOVER/SWITCH/ADV/120W/50K (80W with 90deg lens)



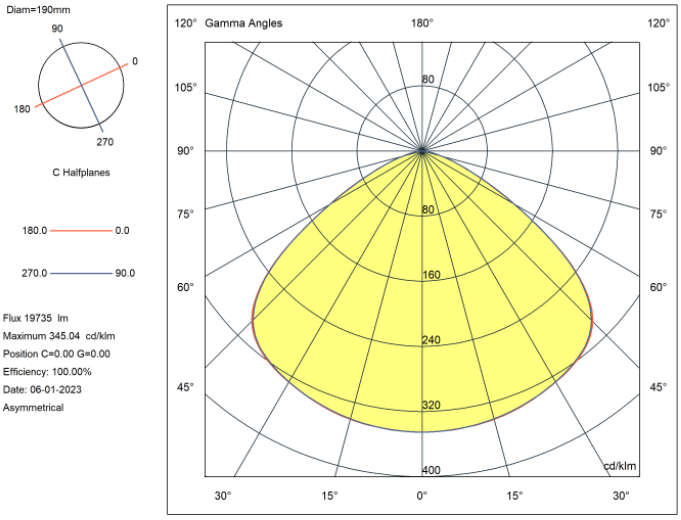

Flux 16200 lm
Maximum 502.79 cd/klm
Position C=90.00 G=5.50
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical

### EV/HOVER/SWITCH/ADV/120W/50K (80W with Diffuser)



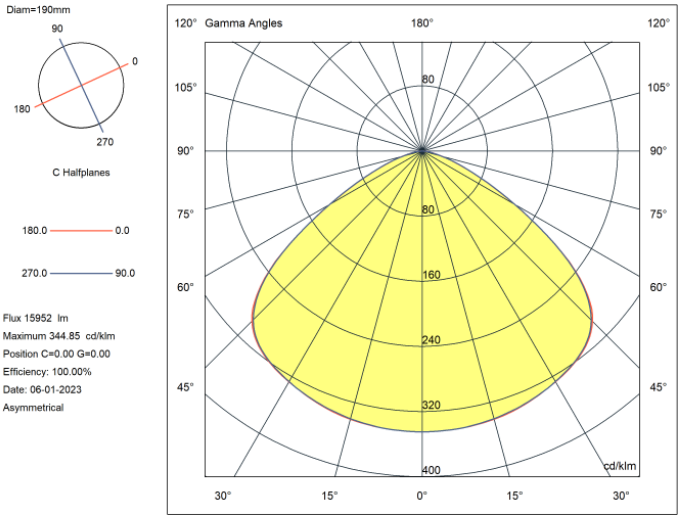

Flux 15674 lm
Maximum 464.61 cd/klm
Position C=90.00 G=21.50
Efficiency: 100.00%
Date: 24-12-2022
Asymmetrical

### EV/HOVER/SWITCH/ADV/120W/50K (100W)



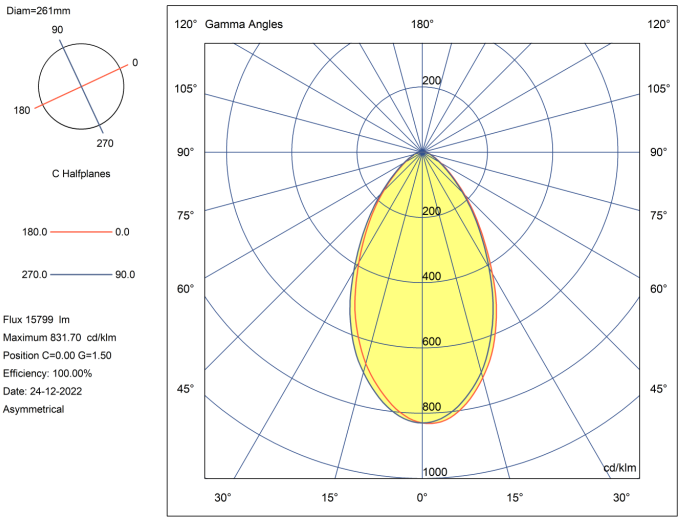

Flux 19735 lm
Maximum 345.04 cd/klm
Position C=0.00 G=0.00
Efficiency: 100.00%
Date: 06-01-2023
Asymmetrical

### EV/HOVER/SWITCH/ADV/120W/50K (80W)

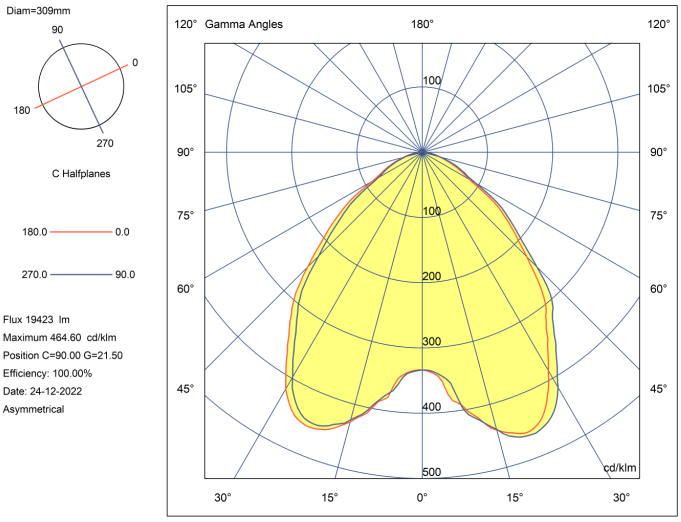



Flux 15952 lm
Maximum 344.85 cd/klm
Position C=0.00 G=0.00
Efficiency: 100.00%
Date: 06-01-2023
Asymmetrical

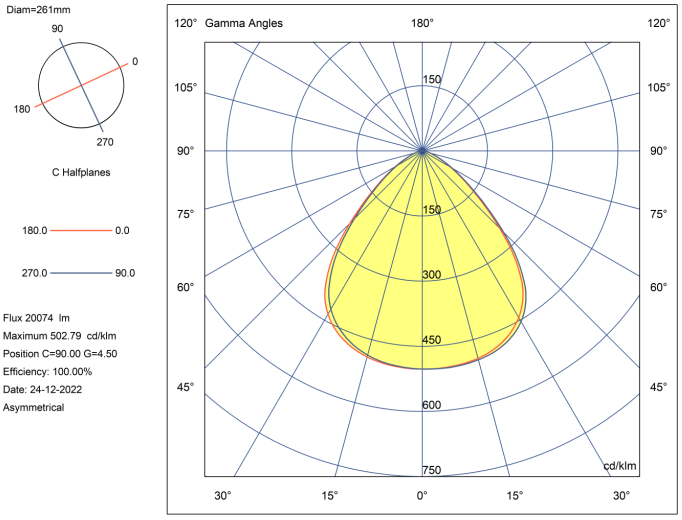
## EV/HOVER/SWITCH/ADV/120W/50K (80W with 60deg lens)



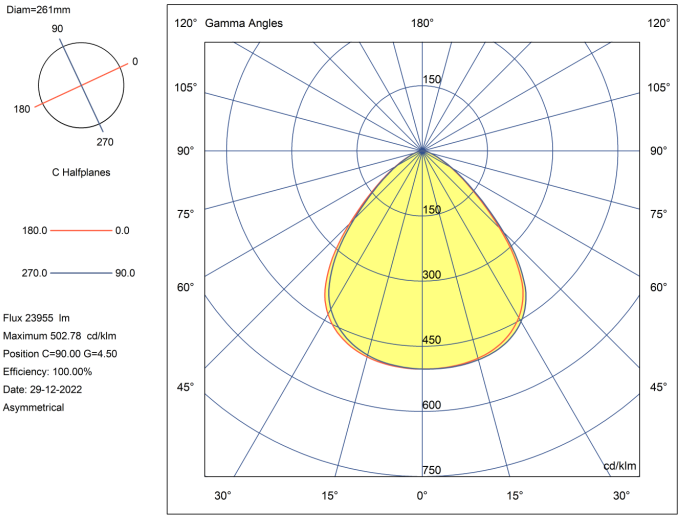

## EV/HOVER/SWITCH/ADV/120W/50K (100W with Diffuser)



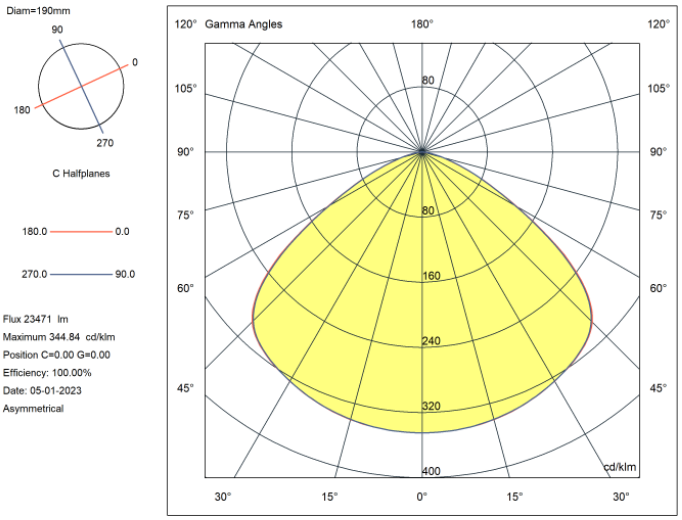

## EV/HOVER/SWITCH/ADV/120W/50K (100W with 90deg lens)



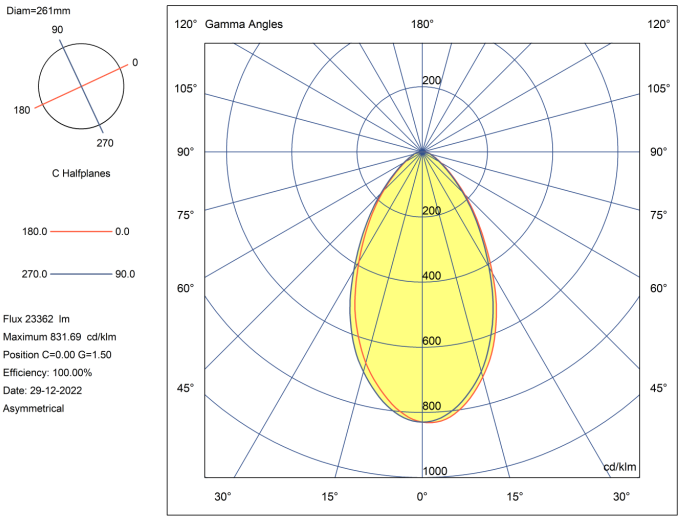

## EV/HOVER/SWITCH/ADV/120W/50K (120W with 90deg lens)



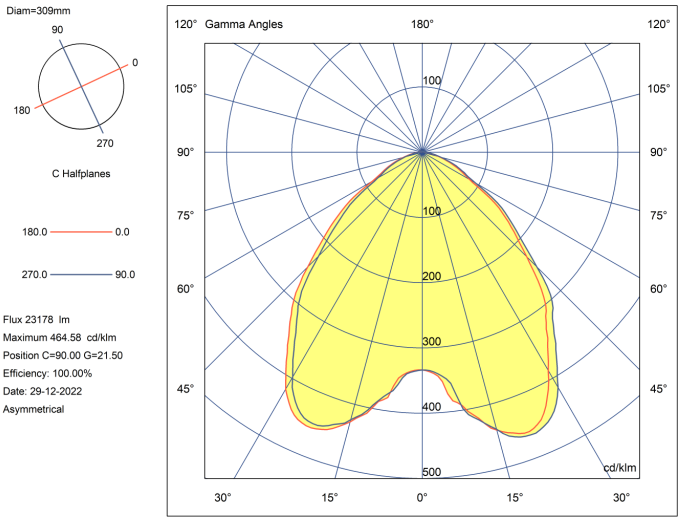

## EV/HOVER/SWITCH/ADV/120W/50K (120W)




## EV/HOVER/SWITCH/ADV/120W/50K (120W with 60deg lens)



## EV/HOVER/SWITCH/ADV/120W/50K (120W with Diffuser)




### ACCESSORIES

| ORDER CODE | ITEM CODE | DESCRIPTION |
|---|---|---|
| 17719 | EV-HOVER-BRACKET | Ceiling mount bracket for Ektor Hover Core 120W and 150W highbays |
| 17726 | EV-HOVER-SWITCH-120W-60D-LENS | 60deg Lens for Ektor Hover Switch Adv 120W Highbays |
| 17725 | EV-HOVER-SWITCH-120W-90D-LENS | 90deg Lens for Ektor Hover Switch Adv 120W Highbays |
| 17721 | EV-HOVER-SWITCH-120W-DIFFUSER | PC Diffuser for Ektor Hover Switch Adv 120W Highbays |
| 16083 | EV-HOVER-SWITCH-120W-REFLECTOR | Alu Reflector for Ektor Hover Switch Adv 120W Highbays |
| 10730 | EV-SENSOR-ZHAGA-MW-LK | Ektor Lynk smart sensor with Zhaga base - 0-10V output - w/wireless |