

TECHNICAL DATASHEET

DRIVELUX- Highbay Lights- Premium Range

DRIVELUX Premium range of LED Highbay fittings available from 40watt to 220watt. Premium range is designed to deliver excellent and uniform light output across installation. This range is designed drive at minimum case temperature to achieve higher sustainability. High optics efficiency > 87% light transfer and unique thermal management. Control gear efficiency > 90%. Suitable for Indoor application

Key Features and benefits:

- Delivers excellent light output across installation
- Fully potted electronic control gear to ensure zero maintenance
- 10KV Surge Protection device in series with electronic control gear
- Average life of 50,000 Burning hours
- Instant light output with low running temp
- Energy efficient saving up to 50%
- No mercury as Light source is LED
- No harmful and IR Radiations
- Standard Warranty 3 Years

Higher efficiency:

- Higher lumens efficiency 145 lm/watt (Usage of OSRAM and Bridgelux LED)
- Highly efficient optics having >89% light transfer efficiency
- Most trusted electronic control gear efficiency > 90% (Usage of Inventronics / Fulham/ Philips)
- Driving LED's at defined current to achieve maximum lumens efficiency



100 W-120 W



40 W – 80 W



80 W – 140 W



150 W – 220 W

Higher Sustainability :

- SMD type LED source which can withstand upto 125 degree temperature, Minimum case temperature to achieve higher sustainability
- Electronic control gear having overvoltage, short circuit, Surge, Over temperature protection.
- PC optics up to 150 degree without any deformation
- Efficient thermal management increases overall sustainability of LED fixtures

Unique Thermal Management:

- Design heat sink on basis of Fins ratio, Fins position, airflow for maximum utilization.
- Using highly effective aluminium material in thermal management for high heat conductivity and low heat resistance.
- Maintaining case/ Junction temperature 40% lower than LED temperature limitation with innovative thermal management.

Optics Design:

Usage of efficient glass optics to get light spreading as per application from 25 to 125 degree spreading angle including multiple spreading angles based on application at site.

Applications:

(Suitable for Indoor Application Only)

- Industries
- Ware House
- Air Port
- Shopping Mall
- Sport Halls



Technical Specification :

| | |
|--------------------------------------|---|
| MOC of Enclosure / Luminaire Housing | PDC Aluminum alloy housing with durable Epoxy powder coating. |
| MOC of Optic | PC Optics |
| IP | IP 65 |
| Connection Type | Single channel for Input (Loop In & Loop out Option available) |
| Mounting Type | Single Point suspension to centrally integrated eye bolt hook. |
| MOC of Reflector | Aluminum |
| MOC of Driver Box | PDC Aluminum alloy housing with durable Epoxy paint |
| Safety Provision | Safety Chain with S Hook |

Luminaries Specification

| | |
|-----------------------------|---|
| Available Models | 40 W / 50 W / 60 W / 80W / 100W / 120W / 150W / 180W / 200 W / 220W |
| I/P Voltage Range | 90~305 VAC |
| I/P Frequency | 50Hz |
| I/P Current | As per Technical Specification Table (Page No : 06) |
| Power Factor | >0.96 |
| Athd | <10% |
| Electrical Efficiency | 91.5% |
| Light Spreading Angle | 25°/ 50° / 60°/90° /120° |
| Temperature Class | T6 |
| IP Standard | IP65 Indoor |
| Total Weight | As per Technical Specification Table (Page No : 06) |
| Starting Time | Rapid 0.2 Sec. |
| Warranty | 3 Years |

LED Driver Specification

| | |
|--|---|
| Type of Driver | CC mode (Constant Current) |
| Make | Inventronics / Fulham / Eco LED |
| I/P Voltage Range | 90~305 VAC |
| Frequency Range | 50Hz |
| PF (Power Factor) | >0.96 |
| THD (Total Harmonic Distortion) | <10% |
| SP (Surge Protection) | 10KV (Internal 4 KV) |
| Protection | IPOV (Over Voltage Protection), SP (Surge Protection), IUVP (Under Voltage Protection), TP (Thermal Protection), OOP (Output Overload Protection), SC (Short Circuit Protection) |

LED Specification

| | |
|-------------------------------|---|
| Light Source | SMD (Surface Mounting Device) |
| Lamp Life | 50,000 Hours |
| Light Source Make | Osram / Bridgelux |
| Lamp Efficacy | 210 Lu/W |
| Colour Temperature | 3000K – 6500K |
| CRI | > 70 / >80 |
| Certification & Reports | LM70, LM80/Photo Bio Test/ Vibration Test |

Optics Specification

Optics Type PC Lens
 MOC of Optics PC

Fixture / Heat sink Specification

Make of Fixture Drivelux
 MOC Heat sink Aluminum PDC

 Junction Temperature –tj 78°
 Case Temperature –tc 72°

Electrical Specifications :

| Model No : | System Wattage (W) | Lamp Lumens | I/P Current | I/P Voltage (AC) | O/P Current (mA) | O/P Voltage– DC | Outer Dimension mm | Fixture Height mm | Weight - (Approx. in KG) |
|------------------|--------------------|-------------|-------------|------------------|------------------|-----------------|--------------------|-------------------|--------------------------|
| TLSHBML-PRE - 40 | 40 | 7224 | 0.30 | 90~310 | 700 | 40 - 57 | 250 | 290 | 2.5 |
| TLSHBML-PRE - 50 | 50 | 9030 | 0.30 | 90~310 | 800 | 55 | 250 | 290 | 2.7 |
| TLSHBML-PRE - 60 | 60 | 10836 | 0.30 | 90~310 | 1400 | 30 - 40 | 250 | 290 | 3.5 |
| TLSHBML-PRE - 80 | 80 | 14448 | 0.43 | 90~310 | 780 | 60 - 106 | 250 | 290 | 4.8 |
| TLSHBML-PRE -100 | 100 | 18060 | 0.55 | 90~310 | 700 | 120 - 160 | 380 | 270 | 4.9 |
| TLSHBML-PRE -120 | 120 | 21672 | 0.55 | 90~310 | 700 | 120 - 160 | 380 | 270 | 5.2 |
| TLSHBML-PRE -140 | 140 | 25284 | 1.93 | 90~310 | 700 | 140 - 214 | 380 | 270 | 5.5 |
| TLSHBML-PRE -150 | 150 | 27090 | 1.93 | 90~310 | 700 | 140 - 214 | 425 | 290 | 5.8 |
| TLSHBML-PRE -180 | 180 | 32508 | 1.10 | 90~310 | 1480 | 120 - 160 | 425 | 290 | 8 |
| TLSHBML-PRE -200 | 200 | 36120 | 1.10 | 90~310 | 1400 | 120 - 160 | 425 | 290 | 8 |
| TLSHBML-PRE -220 | 220 | 39732 | 1.10 | 90~310 | 1400 | 120 - 160 | 425 | 290 | 8 |

Note- 1) As design is a continuous improvement process, technical specifications & Price are subject to change without prior notice.
 2)Product specifications tolerance +-8-10%.



For more information call:

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