

OPTIMAL LIGHT  
LED PERFORMANCE HIGHBAY

Voltage: 100-277

Life Hours: 100,000

Lumen: 185 Lm/W

0-10 Volt Dimming

The OPTIMAL LED PERFORMANCE HIGHBAY is a reliable and high efficacy LED highbay with aluminum die-cast housing for general-purpose applications. It provides performance LED alternative to traditional double-ended halogen-lamp highbay. The range is available in 4 housing sizes for different wattages to meet most of the application requirements. The long lifetime enables substantial energy and maintenance savings. A universal mounting bracket or ring allows wall or surface mounting that tilts upwards or downwards. The OPTIMAL LIGHT PERFORMANCE HIGHBAY is available in black housing.

**Product Features & Benefits**

- Available in 100W, 150W, 200W, 240W
- SMD 5050 LED design to maximize product reliability
- CRI Ra80
- High system efficiency up to 185lm/W
- Standard CCT: 4000k 5000k 6500K
- Aluminum die-cast housing
- Elegant slim design reduces windage
- Tempered frosted front glass to increase uniformity
- IP65 water and dust proof
- IK10 vandal-protected
- 0-10 volt Dimming
- Emergency Battery ( optional)
- Available in black housing
- Up to 100000 hrs lifespan at 30°C reduces maintenance costs
- Built in breather
- Safety compliance certificates: CB CE SASO IECEE ROHS



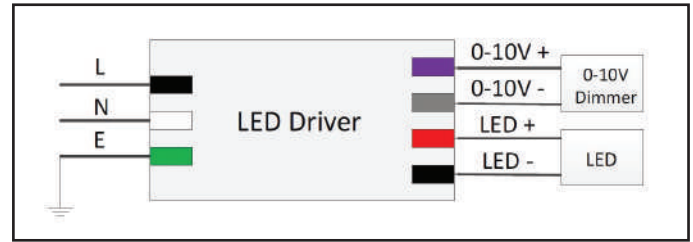
Data subject to change /June 2023

Dimming: 0-10 volt Dimming  
Emergency Battery: Optional

## Application Areas:

- Architecture and landscape lighting
- Industrial warehouses lighting
- Factory, airport, transportation station

DIMMING - 0-10 VOLT DIAGRAM



## General Specifications

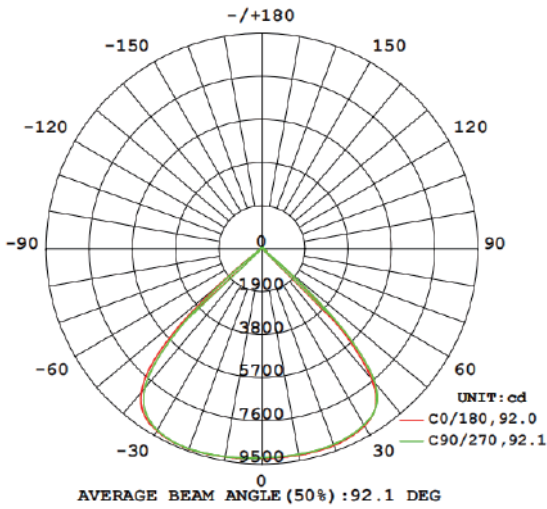


## Optimal Light® LED PERFORMANCE HIGHBAY

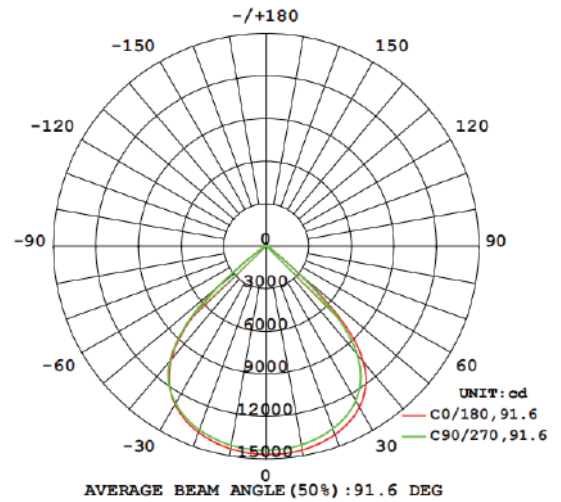
|                       | PRODUCT CODE:                 | OPT HBG100                      | OPT HBG150               | OPT HBG200               | OPT HBG240           |
|-----------------------|-------------------------------|---------------------------------|--------------------------|--------------------------|----------------------|
| Electrical Data       | Wattage                       | 100                             | 150                      | 200                      | 240W                 |
|                       | Rated Input Voltage           | 100 - 277VAC                    |                          |                          |                      |
|                       | Input current                 | 0.83A max.<br>0.43A@230V        | 1.25A max.<br>0.65A@230V | 1.67A max.<br>0.87A@230V | 2.2Amax<br>1.2A@230V |
|                       | Power factor                  | >0.9                            |                          |                          |                      |
|                       | Line frequency                | 50/60Hz                         |                          |                          |                      |
|                       | Surge protection              | 6KV/6KV                         |                          |                          |                      |
|                       | Protection class              | Class I                         |                          |                          |                      |
| Optical / Photometric | Rated lumens @4000&5000K      | 18500lm                         | 27750lm                  | 37000                    | 44400                |
|                       | Beam angle                    | 90°                             |                          |                          |                      |
|                       | CCT (K)                       | 6500K                           |                          |                          |                      |
|                       | CRI                           | Ra80                            |                          |                          |                      |
|                       | Lumen efficacy                | 185+lm/W@4000K & 5000K          |                          |                          |                      |
|                       | Dimming                       | 0-10 Volt Dimming               |                          |                          |                      |
|                       | Rated lifetime                | 100,000 hrs @ L70 B50 30°C      |                          |                          |                      |
|                       | Operating temperature         | -20 -50°C                       |                          |                          |                      |
| Housing               | Project area(m <sup>2</sup> ) | 0.046                           | 0.061                    | 0.083                    | 0.061                |
|                       | Installation                  | Hanging ring, surface mounting. |                          |                          |                      |
|                       | Front glass                   | tempered glass                  |                          |                          |                      |
|                       | Heat sink                     | Die-cast Aluminum               |                          |                          |                      |
|                       | Emergency                     | Optional                        |                          |                          |                      |
|                       | Ingress protection            | IP65                            |                          |                          |                      |
|                       | Shock protection              | IK10                            |                          |                          |                      |
|                       | Driver                        | SOSEN Driver                    |                          |                          |                      |

## Polar intensity diagram

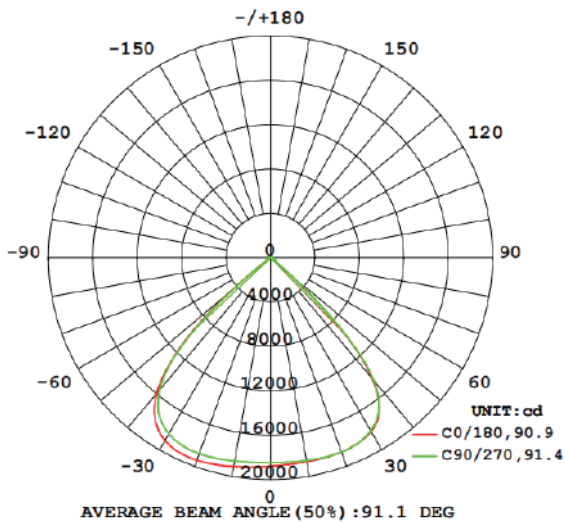
100W



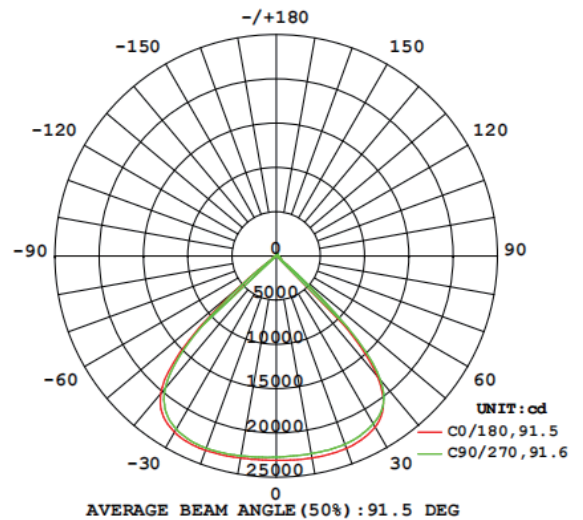
150W



200W



240W



### PRODUCT MODEL CODE.

HIGHBAY 100 WATT: OPT HBG100 6500

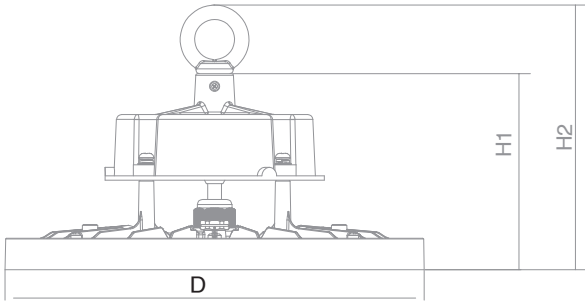
HIGHBAY 200 WATT: OPT HBG200 6500

HIGHBAY 150 WATT: OPT HBG150 6500

HIGHBAY 240 WATT: OPT HBG240 6500

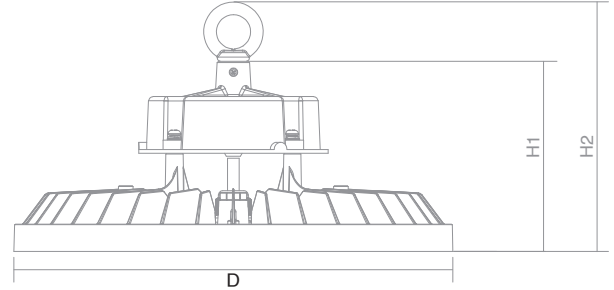
Drawing/Dimensions:

100W



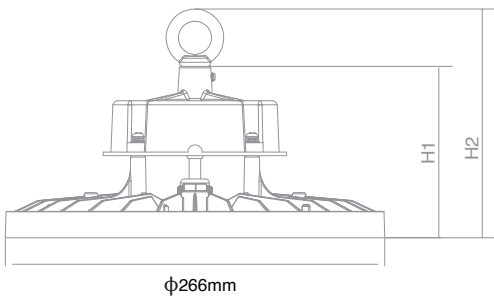
| 100W | D      | H1    | H2    | Weight |
|------|--------|-------|-------|--------|
|      | φ246mm | 115mm | 160mm | 1.89kg |

200W



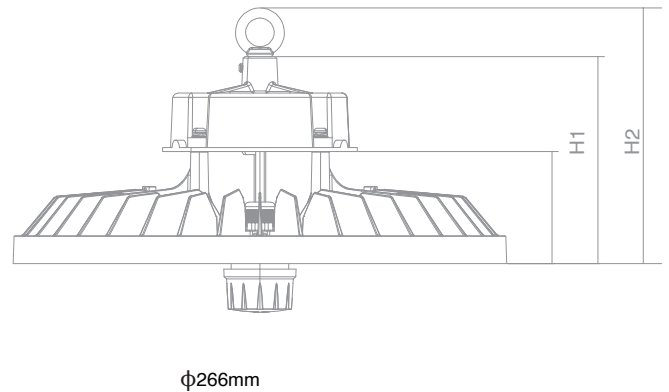
| 200W | D       | H1    | H2    | Weight |
|------|---------|-------|-------|--------|
|      | φ 300mm | 129mm | 172mm | 2.3kg  |

150W



| 150W | Length  | H1    | H2    | Weight |
|------|---------|-------|-------|--------|
|      | φ 266mm | 120mm | 165mm | 1.89kg |

240W



| 240W | D       | H1    | H2    | Weight |
|------|---------|-------|-------|--------|
|      | φ 325mm | 137mm | 175mm | 2.63kg |

PRODUCT MODEL CODE.

HIGHBAY 100 WATT: OPT HBG100 6500

HIGHBAY 200 WATT:OPT HBG200 6500

HIGHBAY 150 WATT:OPT HBG150 6500

HIGHBAY 240 WATT:OPT HBG240 6500