

High Bay Round IP65 Gen2 Honey Comb



DATA SHEET



Product information

The IP65 Round High Bay with HoneyComb® optic is designed to replace traditional high ceiling fixture applications. The HoneyComb® optic together with the specially designed housing frame provides an, dual anti-glare and more comfortable UGR level in all industrial areas (RG0). The lower glare means a more comfortable light for your working environment while the efficacy is above 135lm/W which provides additional savings. The robust design offers a long lifetime solution for all applications.

Benefits

- Designed for replacement of conventional high bays with HID lamps up to 400W
- High luminous efficiency and energy savings up to 70% compared to conventional high bay fixtures
- An affordable solution for retrofit or new installations
- Different accessories for available for versatile installation: suspension chain or metal bracket

Features

- 60°, 70°, 80° beam angle HoneyComb® optic
- Low glare rate, <UGR22 up to 150W
- IP65 protection rating
- IK08 rating
- Class I
- Voltage 220-240V
- Lifespan 80k hours at 25°C (L70/B50)
- 4000K & 5000K CCT
- PF >0.95
- CRI >80
- Ambient temperature: -30°C ~ 50°C
- Lumileds LED chip
- Static, 1-10V and DALI control
- Motion sensor versions could be controlled by remote controller up to 15m installation height.
- Suspended (chain) and surface mounted (bracket) options

Application areas



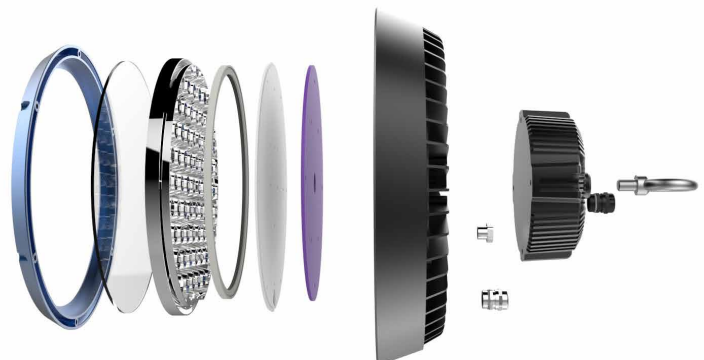
Industrial/
Warehouse



Retail

Fixture structure

Die-cast aluminium housing with tempered glass diffuser and 60/70/80° honeycomb structured aluminium reflectors



Specification summary

| Product code | Description | Lumen (lm) | Wattage (W) | Efficacy (lm/W) | Beam angle | CCT (K) | CRI | UGR ** | Energy Class | Control | IP rating | PF |
|--------------|------------------------------------|------------|-------------|-----------------|------------|---------|-----|--------|--------------|---------|-----------|-------|
| 93114909 | High Bay TU Gen2 90W-4000K-2D-70° | 12150 | 90 | 135 | 70° | 4000K | >80 | 22.5 | A++ | DALI | IP65 | >0.95 |
| 93114913 | High Bay TU Gen2 90W-5000K-2D-70° | 12150 | 90 | 135 | 70° | 5000K | >80 | 22.5 | A++ | DALI | IP65 | >0.95 |
| 93114907 | High Bay TU Gen2 100W-4000K-2A-70° | 13500 | 100 | 135 | 70° | 4000K | >80 | 23.5 | A++ | 1-10V | IP65 | >0.95 |
| 93114911 | High Bay TU Gen2 100W-5000K-2A-70° | 13500 | 100 | 135 | 70° | 5000K | >80 | 23.5 | A++ | 1-10V | IP65 | >0.95 |
| 93114908 | High Bay TU Gen2 100W-4000K-2M-70° | 13500 | 100 | 135 | 70° | 4000K | >80 | 22.7 | A++ | Sensor | IP65 | >0.95 |
| 93114912 | High Bay TU Gen2 100W-5000K-2M-70° | 13500 | 100 | 135 | 70° | 5000K | >80 | 23.1 | A++ | Sensor | IP65 | >0.95 |
| 93114906 | High Bay TU Gen2 100W-4000K-2S-70° | 13500 | 100 | 135 | 70° | 4000K | >80 | 23.2 | A++ | Static | IP65 | >0.95 |
| 93114910 | High Bay TU Gen2 100W-5000K-2S-70° | 13500 | 100 | 135 | 70° | 5000K | >80 | 23 | A++ | Static | IP65 | >0.95 |
| 93114917 | High Bay TU Gen2 140W-4000K-2A-60° | 18900 | 140 | 135 | 60° | 4000K | >80 | 21 | A++ | 1-10V | IP65 | >0.95 |
| 93114925 | High Bay TU Gen2 140W-5000K-2A-60° | 18900 | 140 | 135 | 60° | 5000K | >80 | 21 | A++ | 1-10V | IP65 | >0.95 |
| 93114916 | High Bay TU Gen2 140W-4000K-2A-80° | 18900 | 140 | 135 | 80° | 4000K | >80 | 25.2 | A++ | 1-10V | IP65 | >0.95 |
| 93114924 | High Bay TU Gen2 140W-5000K-2A-80° | 18900 | 140 | 135 | 80° | 5000K | >80 | 25.2 | A++ | 1-10V | IP65 | >0.95 |
| 93114919 | High Bay TU Gen2 140W-4000K-2M-60° | 18900 | 140 | 135 | 60° | 4000K | >80 | 21 | A++ | Sensor | IP65 | >0.95 |
| 93114927 | High Bay TU Gen2 140W-5000K-2M-60° | 18900 | 140 | 135 | 60° | 5000K | >80 | 21 | A++ | Sensor | IP65 | >0.95 |
| 93114918 | High Bay TU Gen2 140W-4000K-2M-80° | 18900 | 140 | 135 | 80° | 4000K | >80 | 24.7 | A++ | Sensor | IP65 | >0.95 |
| 93114926 | High Bay TU Gen2 140W-5000K-2M-80° | 18900 | 140 | 135 | 80° | 5000K | >80 | 24.7 | A++ | Sensor | IP65 | >0.95 |
| 93114915 | High Bay TU Gen2 140W-4000K-2S-60° | 18900 | 140 | 135 | 60° | 4000K | >80 | 21 | A++ | Static | IP65 | >0.95 |
| 93114923 | High Bay TU Gen2 140W-5000K-2S-60° | 18900 | 140 | 135 | 60° | 5000K | >80 | 21 | A++ | Static | IP65 | >0.95 |
| 93114914 | High Bay TU Gen2 140W-4000K-2S-80° | 18900 | 140 | 135 | 80° | 4000K | >80 | 25.2 | A++ | Static | IP65 | >0.95 |
| 93114922 | High Bay TU Gen2 140W-5000K-2S-80° | 18900 | 140 | 135 | 80° | 5000K | >80 | 24.8 | A++ | Static | IP65 | >0.95 |
| 93114921 | High Bay TU Gen2 150W-4000K-2D-60° | 19500 | 150 | 130 | 60° | 4000K | >80 | 21.1 | A++ | DALI | IP65 | >0.95 |
| 93114929 | High Bay TU Gen2 150W-5000K-2D-60° | 19500 | 150 | 130 | 60° | 5000K | >80 | 21.1 | A++ | DALI | IP65 | >0.95 |
| 93114920 | High Bay TU Gen2 150W-4000K-2D-80° | 19500 | 150 | 130 | 80° | 4000K | >80 | 25.2 | A++ | DALI | IP65 | >0.95 |
| 93114928 | High Bay TU Gen2 150W-5000K-2D-80° | 19500 | 150 | 130 | 80° | 5000K | >80 | 25.2 | A++ | DALI | IP65 | >0.95 |
| 93114933 | High Bay TU Gen2 190W-4000K-2A-60° | 24700 | 190 | 130 | 60° | 4000K | >80 | 22.1 | A++ | 1-10V | IP65 | >0.95 |
| 93114941 | High Bay TU Gen2 190W-5000K-2A-60° | 24700 | 190 | 130 | 60° | 5000K | >80 | 22.1 | A++ | 1-10V | IP65 | >0.95 |
| 93114932 | High Bay TU Gen2 190W-4000K-2A-80° | 24700 | 190 | 130 | 80° | 4000K | >80 | 26 | A++ | 1-10V | IP65 | >0.95 |
| 93114940 | High Bay TU Gen2 190W-5000K-2A-80° | 24700 | 190 | 130 | 80° | 5000K | >80 | 26 | A++ | 1-10V | IP65 | >0.95 |
| 93114935 | High Bay TU Gen2 190W-4000K-2M-60° | 24700 | 190 | 130 | 60° | 4000K | >80 | 22.1 | A++ | Sensor | IP65 | >0.95 |
| 93114943 | High Bay TU Gen2 190W-5000K-2M-60° | 24700 | 190 | 130 | 60° | 5000K | >80 | 22.1 | A++ | Sensor | IP65 | >0.95 |
| 93114934 | High Bay TU Gen2 190W-4000K-2M-80° | 24700 | 190 | 130 | 80° | 4000K | >80 | 26 | A++ | Sensor | IP65 | >0.95 |
| 93114942 | High Bay TU Gen2 190W-5000K-2M-80° | 24700 | 190 | 130 | 80° | 5000K | >80 | 26 | A++ | Sensor | IP65 | >0.95 |
| 93114931 | High Bay TU Gen2 190W-4000K-2S-60° | 24700 | 190 | 130 | 60° | 4000K | >80 | 22.1 | A++ | Static | IP65 | >0.95 |
| 93114939 | High Bay TU Gen2 190W-5000K-2S-60° | 24700 | 190 | 130 | 60° | 5000K | >80 | 22.1 | A++ | Static | IP65 | >0.95 |
| 93114930 | High Bay TU Gen2 190W-4000K-2S-80° | 24700 | 190 | 130 | 80° | 4000K | >80 | 25.6 | A++ | Static | IP65 | >0.95 |
| 93114938 | High Bay TU Gen2 190W-5000K-2S-80° | 24700 | 190 | 130 | 80° | 5000K | >80 | 25.6 | A++ | Static | IP65 | >0.95 |
| 93114937 | High Bay TU Gen2 230W-4000K-2D-60° | 28750 | 230 | 125 | 60° | 4000K | >80 | 22.6 | A++ | DALI | IP65 | >0.95 |
| 93114945 | High Bay TU Gen2 230W-5000K-2D-60° | 28750 | 230 | 125 | 60° | 5000K | >80 | 22.6 | A++ | DALI | IP65 | >0.95 |
| 93114936 | High Bay TU Gen2 230W-4000K-2D-80° | 28750 | 230 | 125 | 80° | 4000K | >80 | 25.8 | A++ | DALI | IP65 | >0.95 |
| 93114944 | High Bay TU Gen2 230W-5000K-2D-80° | 28750 | 230 | 125 | 80° | 5000K | >80 | 25.8 | A++ | DALI | IP65 | >0.95 |

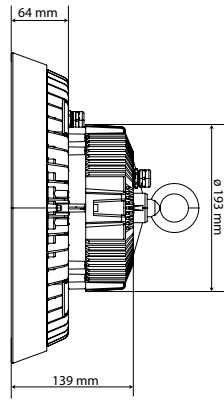
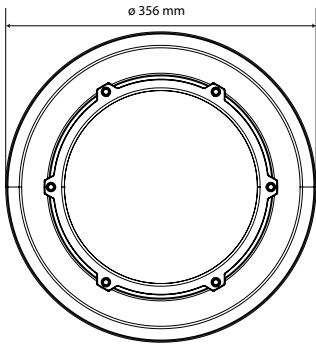
Adjustable accessories*

| | |
|----------|----------------------------------|
| 93115197 | High Bay TU Gen2 Bracket for 280 |
| 93115198 | High Bay TU Gen2 Bracket for 360 |
| 93116529 | High Bay TU Gen2 Remote control |

*accessories to be ordered separately

** UGR value refers to a room with dimensions of 4H/8H and degrees of reflectance of 20% for the floor, 50% for the walls and 70% for the ceiling.

Dimensions (mm)



| Model | Wattage | Fixture diameter (mm) | Fixture height incl driver and hook (mm) | Weight incl driver (kg) | Driver size (mm) | Control |
|--------------------------|---------|-----------------------|--|-------------------------|------------------|---------------------|
| High Bay TU Gen2 90Wxxx | 90W | 280 | 190 | 2.66 | Ø132*71 | DALI |
| High Bay TU Gen2 100Wxxx | 100W | 280 | 190 | 2.66 | Ø132*71 | static/1-10V/Sensor |
| High Bay TU Gen2 140Wxxx | 140W | 360 | 210 | 3.08 | Ø151*71 | static/1-10V/Sensor |
| High Bay TU Gen2 150Wxxx | 150W | 360 | 210 | 3.08 | Ø151*71 | DALI |
| High Bay TU Gen2 190Wxxx | 200W | 360 | 210 | 5.50 | Ø182*71 | static/1-10V/Sensor |
| High Bay TU Gen2 200Wxxx | 230W | 360 | 210 | 5.50 | Ø182*71 | DALI |



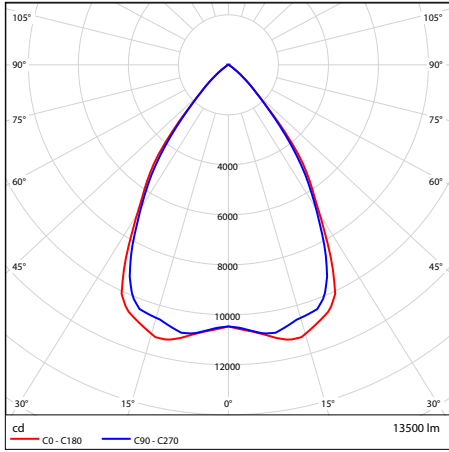
Ordering information

| Internal Code | Generation | System Wattage | CCT | Voltage | Controller | Beam angle | Shipment |
|--------------------|-------------|----------------|--------------|---------------------|---------------------------|------------|-----------------------------|
| High Bay TU | Gen2 | 90W | 4000K | 2 - 220-240V | S - Static | 60° | DS - Direct Shipment |
| | | 100W | | | A - 1-10V Dimmable | | |
| | | 140W | | | M - Motion sensor | | |
| | | 150W | | | D - Dali | | |
| | | 190W | | | E - Emergency | | |
| | | 230W | | | | | |

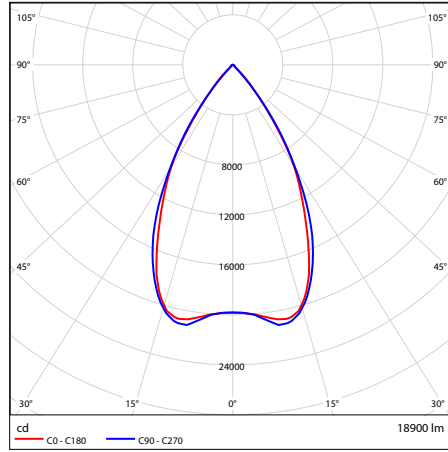
Example: High Bay TU Gen2 190W-4000K-2S-60°
190W 4000K High bay with 60° beam angle HoneyComb optic and static driver

Photometric data

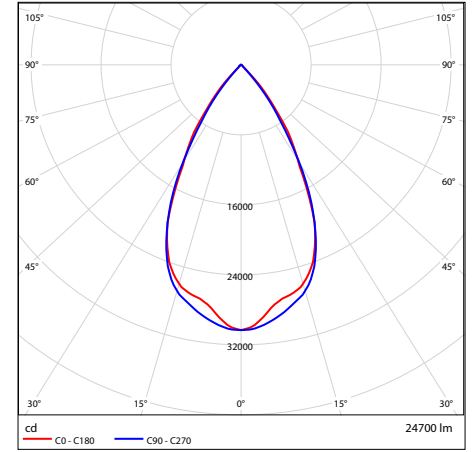
Static version



100W

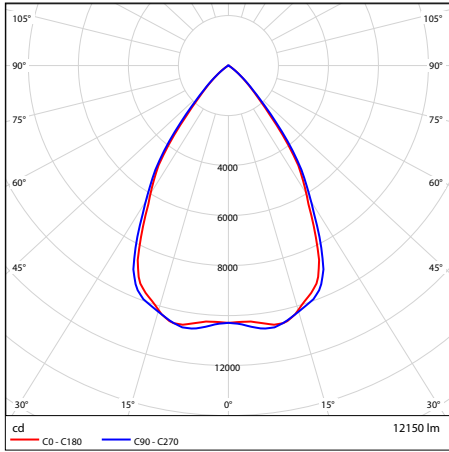


140W

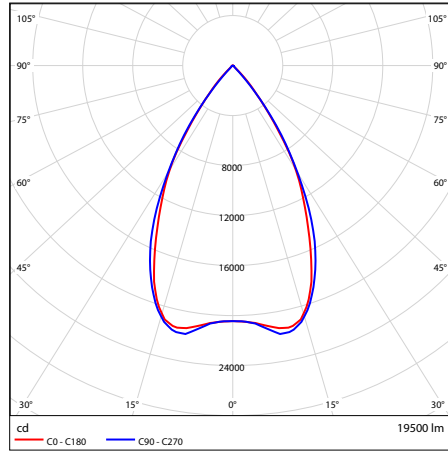


190W

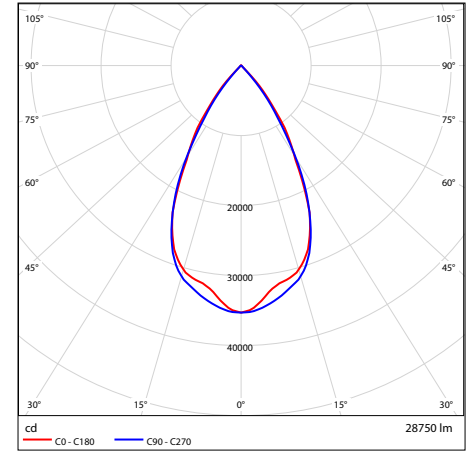
DALI version



90W



150W



230W

Photometry is based on LM79

Regulatory and standards

Regulatory mark: CE

Regulations: 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU/1194/2012 amended by EU 2015/1428, (framework 2010/30/EC) 874/2012 and 518/2014*, 2012/19/EU*

Harmonised standards: EN 60598, EN 62493, EN 61547, EN55015, EN 61000, refer to CE Declaration of Conformity and Technical File for details

Photobiological risk assessment group 0. The product is considered safe, does not pose any photobiological hazard

*not on DOC