



SustainabLED High-Bay HBS Series

The SHB series from SustainabLED is specifically designed around sustainability and even more so, repairability, with reusable parts for exchange and refurbishing rather than recycling. It comes in 160W and 240W versions. Efficacy > 200 LM/W delivering circa 30,000 Lm and 50,000 Lm respectively.

It's incredibly economical to run. The main body of the lamp separates from the driver by way of a precision screw- thread mechanism that facilitates robust precision physical and electrical connection to the driver.

Drivers are top brand Moso or Sosen with 95% efficiency and dimming comes in two options – DALI2 and 0- 10V dimming. are available.

IP65; ambient temperature: -10°C to +70°C; Dimensions: 400 x 400 x 60 mm. Weight: 4.6 kg. Packing is in 4's in outer carton 40 x 40 x 30 and Gross Weight is 17K. Drivers are packed in 12's and Gross Weight per carton is 16Kg.

Key Features and Benefits

- Engineered for Excellence and crafted for Longevity – 7 years standard warranty
- Designed for Sustainability – replaceable and reusable parts for long life extension
- Exchange parts for easy upgrade to NEW in later years – Low low cost
- Best of breed branded drivers > 95% efficiency for long continuous performance
- Dali 2 or 0-10V dimming options
- Minimum Stocking – 240W driver with work with all light plate options.
- Highest Performance – 204 Lumens/watt – Incredibly low running costs (>30% less than average)
- 886 High performance LED chips running very cool at 1/3 nominal power for extremely long life.
- Gold Plated connectors for operation in harshest of conditions
- Colour Rendering Index: Ra>80
- Colour Temperature: Standard 5700K (any CCT available to order)
- Ingress Protection: IP65
- Environmental Operation: -10 to +50 degrees Celsius
- Low Shipping Cost – Environmental friendly – 20' container holds > 2000 pcs (conventional 800pcs)
- In HIGHLY UNLIKELY event of a malfunction, hot-swap exchange part guarantees up and running in 60 seconds at a fraction of the cost of a whole new lamp. Zero Tools, zero skills – send apprentice.
- Circular Economy Compliant – reusable parts – recycling unnecessary.

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Application

Data Centres, Warehouses, Airports, Train and Bus Stations, Workshops, Shopping Malls, Supermarkets, Sports Centres – in fact, in the anywhere in the world that needs reliable powerful lighting with quick hot swap maintenance in-built.

The Big Advantages

- ✓ Sustainably Built for Parts Upgrading
- ✓ No End of Life - Exchange parts as necessary
- ✓ Ultra-low running cost
- ✓ 7 years warranty as STANDARD
- ✓ In the extremely unlikely event of a failure, swap the part for an exchange- fraction of the cost
- ✓ Shipping Costs reduction by 60% - due to separation driver
- ✓ Designed in Ireland
- ✓ Circular Economy Compliant

Product Data

Model	SHBA 240
Wattage	240W
Lumen Output	48,960
Luminous Efficacy	204Lm/W
CCT	5700K
CRI	Ra≥80
IP Level	IP65
Lifespan	> 52,000 Hrs
Driver	MOSO or Sosen

Operating and Electrical

Input Voltage	90-277 VAC
DC Output Connector – Concentric	0.99A constant current
Connection	3 Pole panel connector – raised ground
Cable	Rubber Bulkhead Molded Cable 0.8 m with connector 3-pole

Temperature

Ambient temperature range	-30 to +50 °C
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Controls and Dimming

Dimmable	Yes
Driver	MOSO/BOSEN
Control interface	DALI/0-10V
Constant light output	No

Mechanical and Housing

Housing Material	Al (ADC12)
Housing Color	Black Powder Coat
Optical cover/lens material	Polycarbonate
Optical cover/lens finish	Clear
Overall Diameter	396.4mm
Overall height	123.2mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Sustainability rating	TBA
Protection class IEC	Safety class I
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	7 years
EU RoHS compliant	Yes

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	0%
Suitable for random switching	Yes

Product Data

Order product name – overall lamp	SHB/240/90/D2
Product Code for Light Plate	SHB240
Product Code for Driver	G6/240D/M
Numerator Light Plate – quantity per pack	4
Net Weight (Piece – Light Plate)	3.5 Kg
Numerator Driver – quantity per pack	12
Net Weight (Piece – Driver)	1.05 Kg

MOSO | General Specifications

Parameter		Min	Typ.	Max.	Notes
Efficiency @120Vac		91%	93%	-	25°C±10°Cambient temperature, 100% load, 12V No load
Efficiency @230Vac		93%	95%	-	25°C±10°Cambient temperature, 100% load, 12V No load
Efficiency @277Vac		93%	95%	-	25°C±10°Cambient temperature, 100% load, 12V No load
Dielectric Strength	Input-PE	-	1650Vac	-	5mA/60S
	Output- PE	-	-	-	25A/60S
Grounding Resistance		-	-	0.1Ω	Input-PE, Output-PE, 500Vdc/60S/25°C/70%RH
Insulation Resistance		10MΩ	-	-	25°C±10°Cambient temperature, 230Vac,80% load (MIL-HDBK-217F)
MTBF		-	200000Hrs	-	230Vac&100% load,75°Ccase temperature, refer to lifetime VS Tc curve for details
Lifetime		-	50000Hrs	-	
Operating Case Temperature for Safety Tc_s		-40°C	-	+90°C	
Operating Case Temperature for Warranty Tc_w		-40°C	-	+75°C	5 years warranty Humidity: 10% to 95% RH
Storage Temperature		-40°C	-	+85°C	Humidity: 5% to 100% RH
Dimensions (D×H)mm		Φ130×64.1			
Net Weight		950±150g/PCS			
Package		L490*W370*H185mm; 12PCS/Ctn.			

CE

IP65

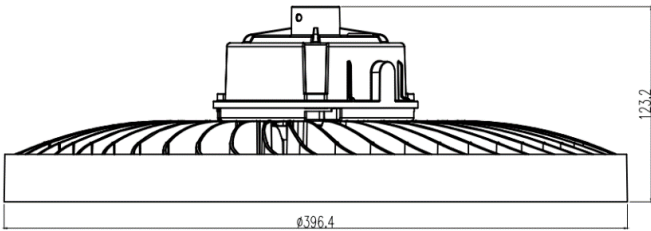
240W

48,960 LUMENS

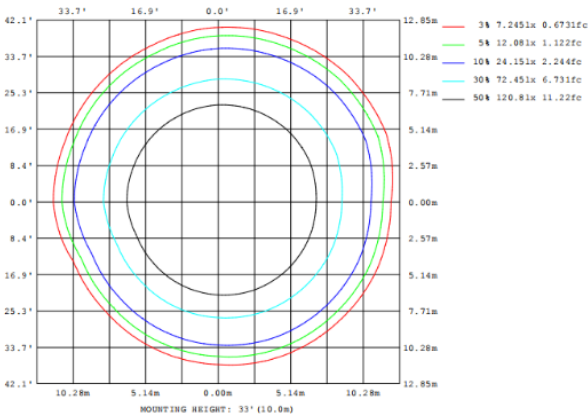
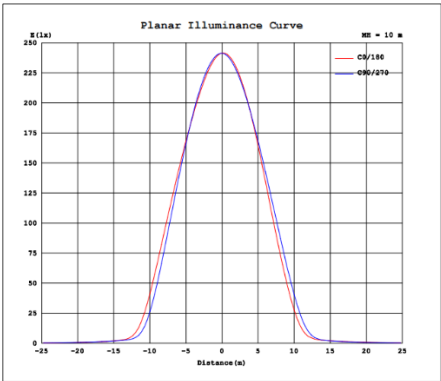
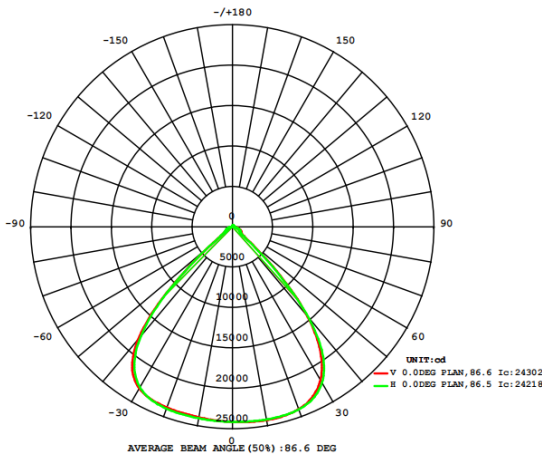
BEAM ANGLE

90°

Dimensions | Unit: mm

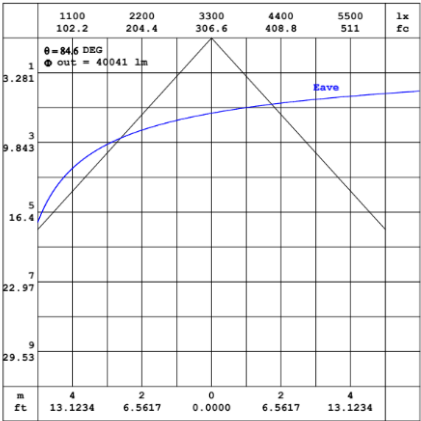


Photometry



Flux out: 38397 lm

Height	Kavg, Emax	Angle: 84.48deg	Diameter
1m	14055,25467lx		181.62cm
2m	3514,63671lx		363.23cm
3m	1562,28301lx		544.85cm
4m	878.4,15921lx		726.47cm
5m	562.2,10191lx		908.08cm
6m	390.4,707.4lx		1089.70cm
7m	286.8,519.7lx		1271.31cm
8m	219.6,397.9lx		1452.93cm
9m	173.5,314.4lx		1634.55cm
10m	140.6,254.7lx		1816.16cm



Packaging

Model	PCS/CTN	Net Weight	Gross weight	Volumetric Weight	CBM
SU-240-HS-G/S	4	14 Kg	16 Kg	9.64	425 x 425 x 267
SD -240-DA	10	10 Kg	12 Kg	5.04	285 x 285 x 310