



**HAVELLS**

**Havells Lighting**  
*Better Light. Better Life.*

*PROFESSIONAL LIGHTING SOLUTION*  
**INDUSTRIAL LIGHTS**



Catalogue 2019

## HAVELLS INTRODUCTION



HAVELLS

Havells India Limited is a leading Fast Moving Electrical Goods (FMEG) Company and a major power distribution equipment manufacturer with a strong global presence. Havells enjoys enviable market dominance across a wide spectrum of products, including Industrial & Domestic Circuit Protection Devices, Cables & Wires, Motors, Fans, Modular Switches, Home Appliances, Air Conditioners, Electric Water Heaters, Power Capacitors, CFL Lamps, Luminaires for Domestic, Commercial and Industrial Applications.

Today, Havells owns some of the most prestigious brands like Havells, Lloyd, Crabtree, Standard and Promptec. Its network constitutes of 4000 professionals, over 7575 dealers and 40 branches in the country. Our products are available in 40 countries. The company has twelve state-of-the-art manufacturing plants in India located at Haridwar, Baddi, Sahibabad, Faridabad, Assam, Alwar and Neemrana, manufacturing globally acclaimed products, synonymous with excellence and precision in the electrical industry.

The company pioneered the concept of exclusive brand showroom in the electrical industry with 'Havells Galaxy'. Today over 415 Havells Galaxies across the country are helping customers, both domestic and commercial, to choose from a wide variety of products for different applications. Havells became the first FMEG Company to offer door step service via its initiative 'Havells Connect'. Thanks to the quality of products and quicker service, it has minimum customer complaints and highest customer satisfaction.

Today, Havells along with its brands, have earned the distinction of being the preferred choice of electrical products for discerning individuals and industrial consumers both in India and abroad. Havells offers same quality products for both Indian and International markets. It is committed to keep powering the world with its state-of-the-art innovations and energy-efficient solutions. Currently over 90% of its product offerings are energy efficient and manufactured in-house.

Social and environmental responsibility has been at the forefront of Havells Operating Philosophy and as a result the company consistently contributes to socially responsible activities. For instance, the company is providing mid-day meal in government schools in Alwar district, covering more than 57000 students per day. The group company, QRG Healthcare runs a 140 bed hospital in Faridabad. In the past, the company has generously contributed to the society during various national calamities like the Bihar Flood, Tsunami and Kargil National Relief Fund, etc.

The essence of Havells' success lies in the expertise of its fine team of professionals, strong relationships with associates and the ability to adapt quickly & efficiently, coupled with the vision to always think ahead.

## PLANTS INTRODUCTION



Neemrana Lighting Plant

Advanced technology cutting machine



Italian Robotised Box Bending Machines

Japanese Flexible CNC controlled steel fabrication process

Havells State of the art Luminaire Plant, Neemrana

# CERTIFICATION



## OUR STRENGTH

The Havells lighting plant in Neemrana is spread over 30 acres of land with over 2,00,000 square feet of working space under a single roof. The plant has been made keeping in mind the global markets of Europe, US and the Middle East. Setting new benchmarks in the industry, this Havells plant will help bridge the technological divide between Europe and India when it comes to manufacturing high-end lighting luminaries.

Japanese flexible CNC controlled steel fabrication process for accuracy in sheet punching & bending. Italian robotised box bending machines to design complex enclosure shapes without human intervention

Automated powder coating paint shop to minimize wastage & fast colour change

Eco-friendly zero discharge plant Parabolic rolling machine for replicating complex and accurate forms and shapes

Flexible assembly line Modern laboratories

We build customer confidence by providing a wide range of quality products and services through teamwork.

**HAVELLS**

**BRIGHTEN YOUR WORLD WITH HAVELLS LED**



**HAVELLS**

#### APPLICATIONS:

- General lighting
- Low energy indicators
- Signage
- Automotive lighting
- Traffic lights
- Text and video displays
- Street lights
- LED television
- Communication
- Sensors
- Light matter interaction
- Hico projector

LED or Light Emitting Diode are miniature light sources made of semi-conductor material, typically consisting of doped gallium nitride materials. They work on the principle of a p-n junction diode. When appropriate DC voltage is applied across the junctions, the diode is forward biased (on state) and the electrons combine with holes and energy is released in the form of visible light. This effect is called electro luminescence and color of light is determined by the band gap of the semiconductor.

LED Lamp also called LED bar or Illuminator, is a type of solid state lighting (SSL) device that uses light-emitting diodes as the source of light. They usually comprise clusters of LEDs in a suitable housing. LEDs by nature emit light in a very small focused wavelength range that is characteristic of the energy band gap of the semiconductor. In order to overcome this, two primary methods of creating white light from LEDs are being used; combination of Red-Green-Blue LEDs and phosphor converted LEDs.

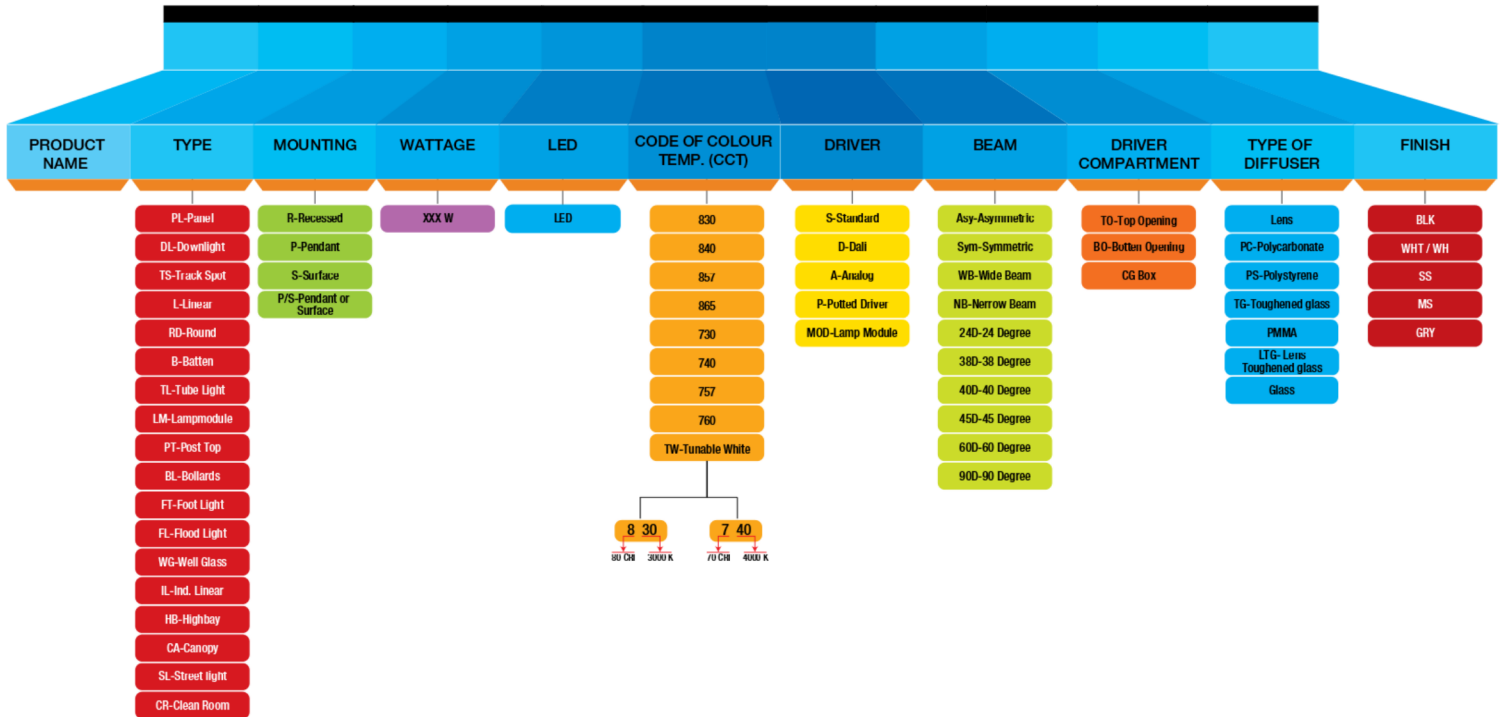
#### Why choose LED?

- Lower energy consumption
- Longer lifetime
- Improved robustness
- Smaller size

LEDs are ideal for use in applications that are subject to frequent on-off cycling, unlike fluorescent lamps that burn out more quickly when cycled frequently or HID lamps that require a long time before restarting. LEDs and LED based luminaires can be dimmed easily and LED luminaires can be designed to focus its light at any desired beam angles (wide to ultra-narrow) using small and compact lenses and mirrors. In comparison incandescent and fluorescent sources require large external reflector to achieve the same performance.

LEDs are environment friendly since they do not contain mercury and have lower CO<sub>2</sub> emission. They are also shock resistant being solid state components and hence accidental breaking during transportation and operations are eliminated.

# PRODUCT CODE NOMENCLATURE



## EXAMPLES:

PRODUCT NAME	TYPE	MOUNTING	WATTAGE	LED	CCT	DRIVER	BEAM	DRIVER COMPARTMENT	TYPE OF DIFFUSER	FINISH
BAYBRITESAUCERHP200WLED757WBTOLTG										
BAYBRITESAUCER	HB	P	200 W	LED	757	-	WB	TO	LTG	-
ENDURAPEARLSL15WLED757SASYTOPC										
ENDURAPEARL	SL	-	15 W	LED	757	S	ASY	TO	PC	-
VENUSNEOHE2X2PLR18-42WLED857MOD										
VENUSNEOHE2X2	PL	R	34 W	LED	857	S	-	-	-	-





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We at Havells believe that landscape is the fourth dimension of architecture. Landscape lighting can divide and structure areas and can act as guide and direct people onto desire paths. Proper landscape lighting can emphasise and present architecture of the building at night as a delight and can also act as a security envelope. We understand that every aspect of architecture demands a treatment with specific light applications and we welcome you to experience the Havells Landscape Range which will help you make the best choice.

Magnum Grand Neo	12-13
Magnum Grand Neo 40W	14-15
Magnum Retro	16-17
Endura Well Glass Neo TS IP66	18-19
Iliosbay HB	20-21
Endura Highbrite Plus	22-23
Baybrite Saucer 80 W	24-25
Saucer 100 W / 120 W / 150 W	26-27
Saucer 180 W / 200 W	28-29
Baybrite Flare Canopy 70 W / 80 W	30-31
Baybrite Flare Canopy 120 W	32-33
Baybrite Flare Highbay 100 / 120 W	34-35
Jeta Valour HB INT P 180 W / 200 W	36-37
Valour Highbay 180 W / 200 W	38-39



# *Industrial Lighting*



**HAVELLS**

# MAGNUM GRAND NEO

Tube light

Energy saving, environment friendly, long life, corrosion resistant, impact proof, surface mounting IP66 luminaire with PC housing & opal finish cover suitable for wet location with LEDs used as the light source.

## PRODUCT SPECIFICATIONS

### Features & Benefits

- Excellent efficacy & performance suitable for wall, ceiling and suspended installation
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$ : 50000 hours

### Housing & Finish

Made from scratch resistant unbreakable polycarbonate in grey finish. PG 16x1.5

cable gland is used for maintaining ingress protection.

### Light Source

Highly efficient and long lasting LED package in integral module with lumen efficacy of  $\geq 130$  lm/W and viewing angle of 120° to ensure better uniformity.

### Cover

High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution, snap fitted to the housing.

### Reflector

Power coated CHCA sheet acts as reflector and control gear tray.

### Electronic Driver

Powered by an integral electronic driver

(SMPS based constant current supply) with low IHD, output short-circuit / open circuit protection, surge protection & safety test as per IS:15885 Part 2/Sec 13.

### Mounting

Surface & suspended through 2 nos. SS clamps & screws provided with fixture.

### Applications

- Battery rooms
- Chilling plants
- Underground parking areas
- Thermal power stations



Green LED | 20 W / 36 W  
 Life 50000 hours | HighEfficiency



**TECHNICAL DATA**

Ordering Code	System Power (W)	Nominal Voltage (V)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
MAGNUMGRANDILS20WLED857PC	20 W	240 V	0.085	≥0.95	5700 K	≥80	1700 lm	Off White	≥85
MAGNUMGRANDNEOIP6636WLED840SPC	36 W	240 V	0.180	≥0.95	4000 K	≥80	3500 lm	Off White	≥85
MAGNUMGRANDNEOIP6636WLED857SPC	36 W	240 V	0.180	≥0.95	5700 K	≥80	3700 lm	Off White	≥85

IS 10322 ( Part 5/Sec 11 ) : 2012



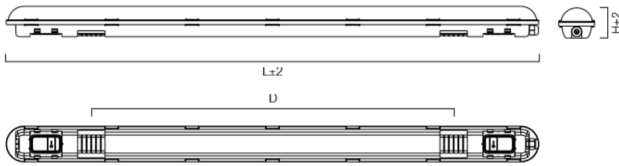
www.bis.gov.in

IS 15885 ( Part 2/Sec 13 )

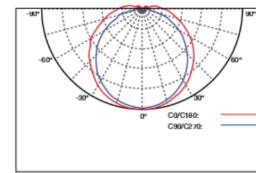


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**TECHNICAL DRAWING**



**PHOTOMETRIC DRAWING**



System Power	Length l (mm)	Width w (mm)	Height h (mm)	CD of mounting holes (D) (in mm)
20 W	590 mm	86 mm	73 mm	380 mm
36 W	1176 mm	79 mm	67 mm	80 mm

All dimensions are in mm | Tolerance: ± 5 mm

# MAGNUM GRAND NEO 40W

Tube light

Energy saving, environment friendly, long life, corrosion resistant, impact proof, surface mounting IP66 luminaire with PC housing & opal finish cover suitable for wet location with LEDs used as the light source.

## PRODUCT SPECIFICATIONS

### Features & Benefits

- Excellent efficacy & performance suitable for wall, ceiling and suspended installation
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$ : 50000 hours

### Housing & Finish

Made from scratch resistant unbreakable polycarbonate in grey finish. PG 16x1.5 cable

gland is used for maintaining ingress protection.

### Light Source

High efficiency long life LED package in integral module with lumen efficacy of  $\geq 130$  lm/W and viewing angle of 120° to ensure better uniformity.

### Cover

High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution, snap fitted to the housing.

### Reflector

Power coated CHCA sheet acts as reflector and control gear tray.

### Electronic Driver

Powered by a built-in isolated low IHD

electronic driver (SMPS based constant current supply) with low IHD, output short-circuit / open circuit protection, surge protection & safety test as per IS:15885 Part 2/Sec 13.

### Mounting

Surface & suspended through 2 nos. SS clamps & screws provided with fixture.

### Applications

- Battery rooms
- Chilling plants
- Underground parking areas
- Thermal power stations



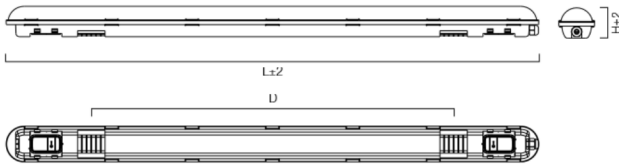
Green  
**LED** | 40 W  
Life **50000** hours | HighEfficiency



#### TECHNICAL DATA

Ordering Code	System Power (W)	Nominal Voltage (V)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
MAGNUMGRANDNEOIP6640WLED857SPC	40 W	240 V	0.180	≥0.95	5700 K	≥80	4300 lm	Off White	≥110

#### TECHNICAL DRAWING



System Power	Length l (mm)	Width w (mm)	Height h (mm)	CD of mounting holes (D) (in mm)
40 W	1176 mm	79 mm	67 mm	800 mm

All dimensions are in mm | Tolerance: ± 5 mm

# MAGNUM RETRO

(Single side connection)

Energy saving, environmental friendly, long life, corrosion resistant, impact proof, surface & suspended mounting luminaire with PC housing and linear ribbed PC cover for glare-free light, suitable for T8 LED tube with single side connection.



## PRODUCT SPECIFICATIONS

### Housing & Finish

Made up of corrosion resistant unbreakable polycarbonate.

### Cover

Clear polycarbonate cover with better light dispersive internal reeds fixed to housing by means of SS toggles.

### Lamp Holders

Push fit type white polycarbonate housing and ABS rotor with corrosion resistant brass contacts.

### Light Source

Complete internal wiring suitable for retrofit LED tube light with single side connection.

### Optics

White power coated CRCA sheet used as reflector.

### Mounting

Surface & suspended mounting using SS clip, (for details refer installation sheet)

### Applications

- Battery rooms
- Chilling plants
- Chemical factories
- Underground parking areas
- Thermal power stations



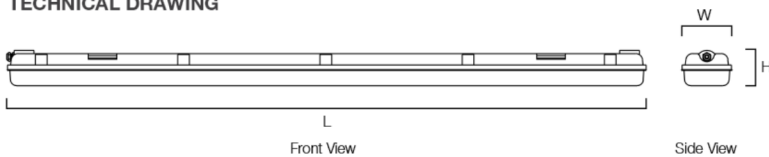




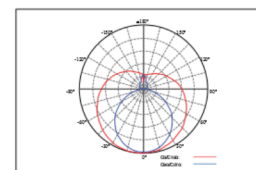
**TECHNICAL DATA**

Ordering Code	Nominal Voltage (V)	Lamp	Lamp Holder
MAGNUMRETROILS1X18PC	250 V	1 x T8 LED Tube	G 13
MAGNUMRETROILS2X18PC	250 V	2 x T8 LED Tube	G 13

**TECHNICAL DRAWING**



**PHOTOMETRIC DRAWING**



Lamp	Length l (mm)	Width w (mm)	Height h (mm)
1 x T8	1258 mm	70 mm	70 mm
2 x T8	1258 mm	100 mm	70 mm

All dimensions are in mm  
Tolerance: ± 5 mm

# ENDURA WELL GLASS NEO TS IP66

Environment friendly, energy saving long life corrosion resistant, vertical surface mounting, pressure die cast aluminium housing and control gear compartment well for glass luminaires with high power LED as light source.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature :-10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Up to 4 kV surge protection.
- Average life  $L_{70, B_{50}}$ : 50000 hours

### Housing

Pressure die cast aluminium housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance.

### Finish

Epoxy powder coated after phosphochromate treatment in metallic silver finish which helps to sustain itself in harsh environments.

### Light Source

High efficiency long life SMD LEDs with lumen efficacy of >140 lm/W with viewing angle of 120° to ensure better uniformity of light distribution.

### Diffuser

Polycarbonate diffuser in opal finish for uniform light distribution fixed to the housing with SS screws. (For detailed photometric data, please refer LM/9 report & IES file).

### Electronic Driver

Integral electronic driver with APFC, lower THD, Output Short Circuit Protection, Surge Voltage Protection, Over Voltage Protection & other safety test as per IS:15885 Part 2/ Sec 13.

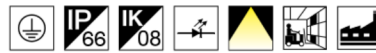
### Mounting

Provision for suspension via heavy duty eye-bolt provided with the fixture.

Locknut and damper is provided with the eye-bolt. Safety chain suspension kit may be ordered separately

### Applications

- Industrial bays
- Cement factories
- Oil process locations
- Medium industrial units



Green  
LED | 26 W / 35 W / 40 W / 70 W  
Life 50000 hours | HighEfficiency



### TECHNICAL DATA

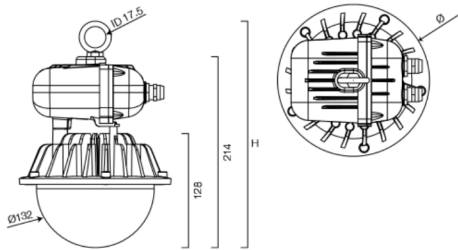
Ordering Code	System Power (W)	Nominal Voltage (V)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
ENDURAWELGLASSNEOTSWGP26WLED757SPC	26 W	240 V	0.115	≥0.95	5700 K	≥80	2700 lm	Gray	≥85
ENDURAWELGLASSNEOTSWGP35WLED757SPC	35 W	240 V	0.150	≥0.95	5700 K	≥80	3500 lm	Gray	≥85
ENDURAWELGLASSNEOTSWGP40WLED757SPC	40 W	240 V	0.180	≥0.95	5700 K	≥80	4000 lm	Gray	≥85
ENDURAWELGLASSNEOP70WLED757PPC	70 W	240 V	0.310	≥0.95	5700 K	≥70	7300 lm	Gray	≥85

IS 10322 (Part 5/Sec 1) : 2012



Driver code: LSSCRX2400 for 26 W, LSSCRX2399 for 35 W, LSSCRX2398 for 40 W.

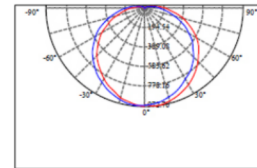
### TECHNICAL DRAWING



System Power	Ø (mm)	Width w (mm)
26 W / 35 W / 40 W	170 mm	254 mm
70 W	170 mm	240 mm

All dimensions are in mm  
Tolerance: ± 5 mm

### PHOTOMETRIC DRAWING



# ILIOSBAY HB

Energy saving, environment friendly & robust highbay LED luminaire with high efficacy.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70-50}$ : 50000 hours

### Housing & Finish

White powder coated, elegantly designed pressure die cast aluminium housing and shot ballasting heat sink for efficient heat dissipation.

### Light Source

High efficiency long life discrete LED mounted on MCPCB. Lumen efficacy of LED >150 lm/W with viewing angle of 120° to ensure better uniformity of light distribution.

### Diffuser & Optic

Highly efficient polycarbonate UV stabilised cover with integrated lens to ensure symmetric light distribution (for detailed photometric data please refer LM/9 report & IES).

### Electronic Driver

Powered by built-in, potted IP-67, isolated electronic LED driver (SMPS based constant current supply) with output short-circuit protection, surge voltage protection & other safety test as per IS: 15885 Part 2/Sec 13 and CISPR.

### Mounting

Suspended by means of heavy duty nickel plated and forged eye-bolt with damping rubber to protect against vibration, Safety chain is provided with the fixture for additional safety.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas
- Exterior canopies
- Shopping malls



Green  
LED | 50 W / 60 W / 70 W  
Life 50000 hours | HighEfficiency

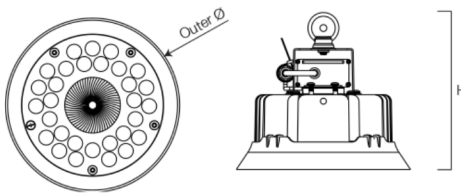


**TECHNICAL DATA**

Ordering Code	System Power (W)	Nominal Voltage (V)	Beam Angle (°)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	System Luminous Efficacy (lm/W)
ILIOSBAYHBP50WLED85/SP60DTPC	50 W	240 V	60°	0.225	≥0.95	5700 K	≥80	6500 lm	≥130
ILIOSBAYHBP60WLED85/SP60DTPC	60 W	240 V	60°	0.275	≥0.95	5700 K	≥80	7800 lm	≥130
ILIOSBAYHBP70WLED85/SP60DTPC	70 W	240 V	60°	0.325	≥0.95	5700 K	≥80	9100 lm	≥130
ILIOSBAYHBP50WLED85/SP90DTPC	50 W	240 V	90°	0.225	≥0.95	5700 K	≥80	6750 lm	≥130
ILIOSBAYHBP60WLED85/SP90DTPC	60 W	240 V	90°	0.275	≥0.95	5700 K	≥80	8100 lm	≥130
ILIOSBAYHBP70WLED85/SP90DTPC	70 W	240 V	90°	0.325	≥0.95	5700 K	≥80	9000 lm	≥130



**TECHNICAL DRAWING**

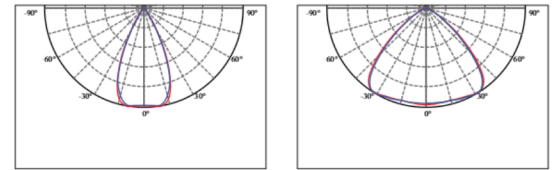


**DIMENSION**

System Power	Ø (mm)	Width w (mm)
50 W / 60 W / 70 W	202 mm	183 mm

All dimensions are in mm  
Tolerance: ± 5 mm

**PHOTOMETRIC DRAWING**



# ENDURA HIGHBRITE PLUS

Energy saving, environment friendly & robust open type vertical Mediumbay Highbay LED IP54 luminaire with high power COB LED as light source.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Better lumens & longer lamp life
- High efficacy & lower power consumption
- Delivers high brightness & excellent illumination
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$  : 50000 hours

### Housing

Extruded aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistance. Pressure die cast aluminium housing (ADC12/LM24)

for control gear. PG 7 gland is used for cable entry to maintain ingress protection.

### Finish

Control gear housing is epoxy powder coated black after phosphochromate treatment whereas heat sink is anodised in black finish.

### Light Source

High efficiency long life COB LED with  $\text{Ra} > 70$  and lumen efficacy of 120 lm/W with view angle of 120° to ensure better uniformity of light distribution.

### Optics

Aluminium spun reflector sand blasted from inside and electrochemically brightened. Glass lens over COB for uniform distribution (For detailed photometric details, please refer LM 79 report & IES file).

### Electronic Driver

Powered by an in-built electronic driver with APFC, lower THD, Open Circuit Protection, Surge Voltage Protection & other safety test as per IS 15885 Part-2/Sec 13.

### Mounting

Suspended by means of heavy duty nickel plated and forged eye-bolt provided with the fixture. Nut is also provided in the casting to lock the eye-bolt.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas



Green  
**LED** | 90 W / 150 W  
Life **50000** hours | HighEfficiency



### TECHNICAL DATA

Ordering Code	System Power (W)	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
ENDURAHIBRITEPLUSHP90WLED/65S60DTOLENS	90 W	240 V ac	0.400	≥0.95	6500 K	≥70	9000 lm	Black	≥100
ENDURAHIBRITEPLUSHP90WLED765S90DTOLENS	90 W	240 V ac	0.400	≥0.95	6500 K	≥70	9000 lm	Black	≥100
<b>With Potted Driver</b>									
ENDURAHIBRITEPLUSHP150WLED/65P60D1OLENS	150 W	240 V ac	0.650	≥0.95	6500 K	≥70	15000 lm	Black	≥100
ENDURAHIBRITEPLUSHP150WLED765P90DTOLENS	150 W	240 V ac	0.650	≥0.95	6500 K	≥70	15000 lm	Black	≥100

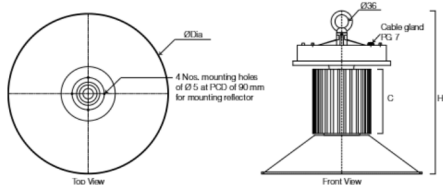
IS 10322 (Part 5/Sec 1) : 2012



R-62000388  
www.bis.gov.in

Driver code: LSSLOX0175 for 90 W, LSSLOX0167 for 150 W.

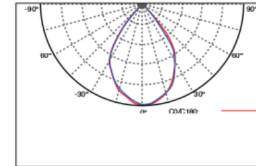
### TECHNICAL DRAWING



System Power	Ø (mm)	Width w (mm)
90 W	362 mm	352 mm
150 W	447 mm	490 mm

All dimensions are in mm  
Tolerance: ± 5 mm

### PHOTOMETRIC DRAWING



# BAYBRITE SAUCER

## 80 W

Energy saving, environment friendly & robust  
Mediumbay / Highbay LED luminaire with high efficacy.



### PRODUCT SPECIFICATIONS

#### Features & Benefits

- Better lumens & longer lamp life
- High efficacy & lower power consumption
- Delivers high brightness & excellent illumination
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70-B_{50}}$ : 50000 hours

#### Housing

Aluminium alloy pressure die cast housing & control gear box for better heat dissipation and aesthetic appeal. M16 X1.5 gland is used for cable entry and Loop In Loop Out

#### Finish

The fixture is epoxy powder coated with colour munshell grey finish.

#### Light Source

Highly efficient and long lasting LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution.

#### Optics

High quality PC lens with optional narrow & wide beam angles for uniform distribution (For detailed photometric data, please refer LM 79 report & IES file).

#### Cover

Tempered protective toughened glass, thermal shock and impact resistant fixed to the housing with SS screws.

#### Electronic Driver

Built-in, electronic driver with APFC, lower THD, open circuit protection, surge voltage protection & other safety test as per IS 15885 Part-2/Sec. 13.

#### Mounting

Suspended by means of heavy duty nickel plated and forged eye-bolt provided with the fixture.

#### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas





Green  
**LED** | 80 W  
Life **50000** hours | HighEfficiency



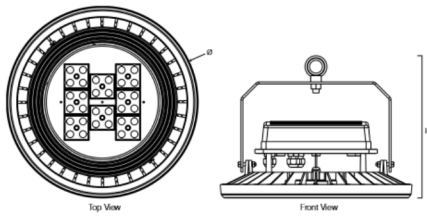
### TECHNICAL DATA

Ordering Code	System Power (W)	Beam Type	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
BAYBRITESAUCERHBP80WLED75/90DTOLTG	80 W	Narrow Beam	240 V ac	0.350	≥0.95	5700 K	≥70	10500 lm	Grey	≥130
BAYBRITESAUCERHBP80WLED75760DTOLTG	80 W	Wide Beam	240 V ac	0.350	≥0.95	5700 K	≥70	10500 lm	Grey	≥130

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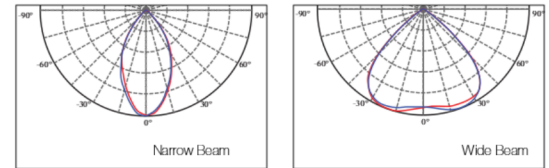
### TECHNICAL DRAWING



System Power	Ø (mm)	Width w (mm)
80 W / 120 W	380 mm	230 mm

All dimensions are in mm  
Tolerance: ± 5 mm

### PHOTOMETRIC DRAWING



# SAUCER

100 W / 120 W / 150 W

Energy saving, environment friendly & robust  
Mediumbay / Highbay LED IP65 luminaire with high efficacy.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Better lumens & longer lamp life
- High efficacy & lower power consumption
- Delivers high brightness & excellent illumination
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +50 °C
- Operating voltage range: 140 V -270 V
- Average life  $L_{70/B_{50}}$  : 50000 hours

### Housing

Aluminium alloy pressure die cast housing for better heat dissipation and aesthetic appeal.

### Finish

The housing is epoxy powder coated with colour munshell grey finish.

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution.

### Optics

High quality PC lens with optional narrow & wide beam angles for uniform distribution (For detailed photometric data, please refer LM 79 report & IES file).

### Cover

Tempered protective toughened glass, thermal shock and impact resistant fixed to the housing with SS screws.

### Electronic Driver

Built-in, electronic driver with APFC, lower THD, open circuit protection, surge voltage protection & other safety test as per IS 15885 Part-2/Sec. 13.

### Mounting

Suspended by means of heavy duty nickel plated and forged eye-bolt provided with the fixture.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas



Green  
LED | 100 W / 120 W / 150 W  
Life 50000 hours | HighEfficiency



### TECHNICAL DATA

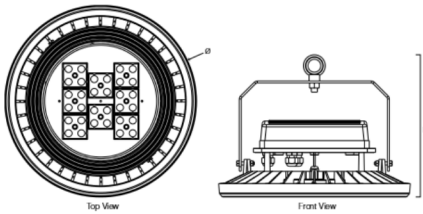
Ordering Code	System Power (W)	Beam Type	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
SAUCERPLUSHP100WLED757AWBTOLTG	100 W	Narrow Beam	240 V ac	0.440	≥0.95	5700 K	≥70	14000 lm	Grey	≥140
SAUCERPLUSHP100WLED757ANBTOLTG	100 W	Wide Beam	240 V ac	0.440	≥0.95	5700 K	≥70	14000 lm	Grey	≥140
SAUCERPLUSHP120WLED757AWBTOLTG	120 W	Narrow Beam	240 V ac	0.530	≥0.95	5700 K	≥70	15600 lm	Grey	≥130
SAUCERPLUSHP120WLED757ANBTOLTG	120 W	Wide Beam	240 V ac	0.530	≥0.95	5700 K	≥70	15600 lm	Grey	≥130
SAUCERPLUSHP150WLED85790DTOLTG	150 W	Narrow Beam	240 V ac	0.660	≥0.95	5700 K	≥80	16000 lm	Grey	≥105
SAUCERPLUSHP150WLED85760D1OLTG	150 W	Wide Beam	240 V ac	0.660	≥0.95	5700 K	≥80	16000 lm	Grey	≥105

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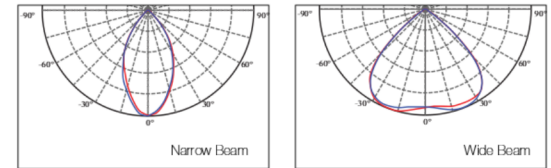
### TECHNICAL DRAWING



System Power	Ø (mm)	Width w (mm)
100 W / 120 W / 150 W	380 mm	230 mm

All dimensions are in mm  
Tolerance: ± 5 mm

### PHOTOMETRIC DRAWING



# SAUCER

180 W / 200 W

Energy saving, environment friendly & robust  
Mediumbay / Highbay LED luminaire with high efficacy.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Better lumens & longer lamp life
- High efficacy & lower power consumption
- Delivers high brightness & excellent illumination
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature :-10 °C to +50 °C
- Operating voltage range: 140 V -2/0 V
- Average life  $L_{70-B_{50}}$ : 50000 hours

### Housing

Aluminium alloy pressure die cast housing for better heat dissipation and aesthetic appeal.

### Finish

The fixture is epoxy powder coated with colour munshell grey finish.

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution.

### Optics

High quality PC lens with optional narrow & wide beam angles for uniform distribution (For detailed photometric data, please refer LM /9 report & IES file).

### Cover

Tempered protective toughened glass, thermal shock and impact resistant fixed to the housing with SS screws.

### Electronic Driver

Built-in Potted IP67 electronic LED driver with APFC, lower THD, open circuit protection, surge voltage protection & Surge Voltage Protection other safety test as per IS 15885 Part-2/Sec 13, IEC60598-1, 61547, 61347-2-13, EN 55015.

### Mounting

Suspended by means of heavy duty nickel plated, forged eye-bolt provided with the fixture.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas



Green  
**LED** | 180 W / 200 W  
Life **50000** hours | HighEfficiency



### TECHNICAL DATA

Ordering Code	System Power (W)	Beam Type:	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
BAYBRITESAUCERHBP180WLED75/WBTOLTG	180 W	Narrow Beam	240 V ac	0.790	≥0.95	5700 K	≥70	24300 lm	Grey	≥135
BAYBRITESAUCERHBP180WLED757NBTOLTG	180 W	Wide Beam	240 V ac	0.790	≥0.95	5700 K	≥70	24300 lm	Grey	≥135
BAYBRITESAUCERHBP200WLED757NBTOLTG	200 W	Narrow Beam	240 V ac	0.880	≥0.95	5700 K	≥70	26000 lm	Grey	≥130
BAYBRITESAUCERHBP200WLED757WBTOLTG	200 W	Wide Beam	240 V ac	0.880	≥0.95	5700 K	≥70	26000 lm	Grey	≥130

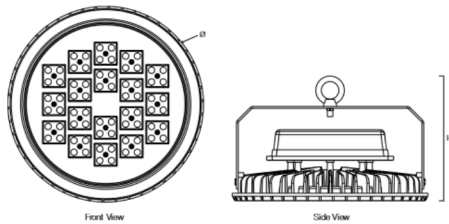
IS 10322 (Part 5/Sec 1) : 2012



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Driver code: LSCELDX0246 for 180 W & LSCELDX0272 200 W.

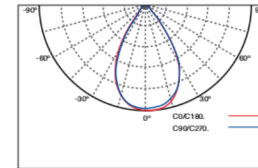
### TECHNICAL DRAWING



System Power	Ø (mm)	Width w (mm)
180 W / 200 W	424 mm	270 mm

All dimensions are in mm  
Tolerance: ± 5 mm

### PHOTOMETRIC DRAWING



# BAYBRITE FLARE CANOPY 70 W / 80 W

Baybrite flare is a specially designed, multi-functional LED luminaire made to replace under canopy or industrial low-bay lights.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +55 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$ : 50000 hours

### Housing

Die cast aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistant. SS hardware, silicon gasket and M16x1.5 gland is used

for cable entry and maintaining ingress protection.

### Optics & Cover

UV stabilised, polycarbonate lens with tempered protective toughened glass 5 mm, thermal shock and impact resistant (IK-07) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM /9 report & IES file).

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution (For detailed photometric data, please refer LM /9 report & IES file).

### Electronic Driver

Built-in electronic LED driver with lower THD, open circuit protection, surge voltage

protection & other safety test as per IS 15885 Part-2/Sec 13.

### Mounting

Wall or surface mounting using adjustable MS bracket of thickness 5 mm provided with the fixture by 2 elliptical slots of 10x20 mm at center distance of 86 mm.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas
- Exterior canopies
- Security and perimeter lighting



Green  
**LED** | 70 W / 80 W  
Life **50000 hours** | HighEfficiency



**TECHNICAL DATA**

Ordering Code	System Power (W)	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
BAYBRITEFLAREHB/OWLED85/PWBBOLTG	70 W	240 V ac	0.310	≥0.95	5700 K	≥70	8050 lm	Grey	≥115
BAYBRITEFLAREHB80WLED85/PWBBOLTG	80 W	240 V ac	0.350	≥0.95	5700 K	≥70	9200 lm	Grey	≥115

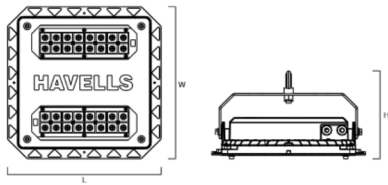
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Driver code: LSCELDOX0136 for 70 W, LSCELDOX0236 for 80 W,

Assembled Power Coated Frame 595X595X0.8 MM : LSSLOW0313 (to be ordered separately)

**TECHNICAL DRAWING**

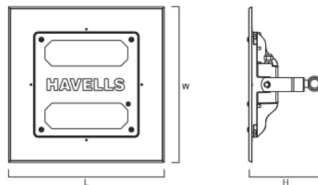
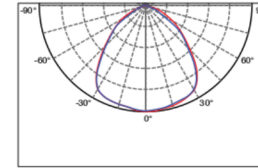


**DIMENSION**

System Power	Length l (mm)	Width w (mm)	Height h (mm)
70 W	350 mm	350 mm	202 mm
80 W	350 mm	350 mm	202 mm

All dimensions are in mm  
Tolerance: ± 5 mm

**PHOTOMETRIC DRAWING**



**DIMENSION**

System Power	Length l (mm)	Width w (mm)	Height h (mm)
70 W	595 mm	595 mm	212 mm
80 W	595 mm	595 mm	212 mm

# BAYBRITE FLARE CANOPY 120 W

Baybrite flare is a special designed, multi- functional LED luminaire to replace under canopy.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature :-10 °C to +50 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{50}$ : 50000 hours
- Surge Protection upto 10kV

### Housing

Die cast aluminium housing (heat sink) for efficient thermal management, sturdiness &

excellent corrosion resistance. SS hardware, silicon gasket and M16x1.5 gland is used for cable entry for maintaining ingress protection.

### Optics & Cover

UV Stabilised, polycarbonate lens with tempered protective toughened glass 5 mm, thermal shock and impact resistant (IK-08) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM /9 report & IES file).

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution (For detailed photometric data, please refer LM/9 report & IES file).

### Electronic Driver

Built-in electronic LED driver with lower THD, open circuit protection, surge voltage protection & other safety test as per IS 15885 Part-2/Sec 13.

### Mounting

Surface or suspended mounting using powder coated MS bracket of thickness 4 mm provided with the fixture by 2 elliptical slots of 10 x 20 mm at center distance of 86 mm.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas
- Petrol-Pumps





Green LED | 120 W  
 Life 50000 hours | HighEfficiency



**TECHNICAL DATA**

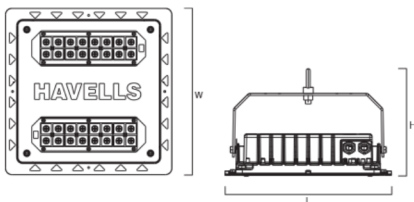
Ordering Code	System Power (W)	Nominal Voltage (V)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
BAYBRITEFLARE120WLED/5/PWBOLTG	120 W	240 V	0.530	≥0.95	5700 K	≥0	15600 lm	Grey	≥115

IS 10322 (Part 5/Sec 1) : 2012



Driver code : LSSCRX2472

**TECHNICAL DRAWING**

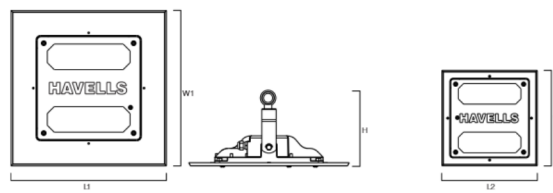


**DIMENSION**

System Power	Length l (mm)	Width w (mm)	Height h (mm)
120 W	350 mm	350 mm	226 mm

All dimensions are in mm | Tolerance: ± 5 mm

**TECHNICAL DRAWING WITH FRAME**



**DIMENSION FOR LSSLOW0313**

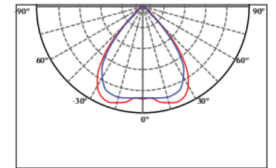
System Power	Length l (mm)	Width w (mm)	Height h (mm)
120 W	595 mm	595 mm	226 mm

**DIMENSION FOR LSCFEFLOC623**

System Power	Length l (mm)	Width w (mm)	Height h (mm)
120 W	595 mm	595 mm	226 mm

All dimensions are in mm | Tolerance: ± 5 mm

**PHOTOMETRIC DRAWING**



LSCFEFLOC623 POWDER COATED FRAME 80W RP RAL 9016 (to be ordered separately)  
 LSSLOW0313 L.SPARE ASSEM POW COATED FRAME 595x595x1 mm ( to be ordered separately)

# BAYBRITE FLARE HIGHBAY 100 W / 120 W

Baybrite flare is a special designed, multi- functional LED luminaire to replace under canopy or Industrial Bay-Lights.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature : -10 °C to +55 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$ : 50000 hours

### Housing & Finish

Die cast aluminium housing (heat sink) for efficient thermal management, sturdiness &

excellent corrosion resistant. SS hardware, silicon gasket and M16x1.5 gland is used for cable entry for maintaining ingress protection.

### Optics & Cover

UV Stabilised, polycarbonate lens with tempered protective toughened glass 5 mm, thermal shock and impact resistant (IK-08) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM /9 report & IES file).

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution (For detailed photometric data, please refer LM /9 report & IES file).

### Electronic Driver

Built-in electronic LED driver with lower THD, open circuit protection, surge voltage protection & other safety test as per IS 15885 Part-2/Sec 13.

### Mounting

Surface or suspended mounting using powder coated MS bracket of thickness 4 mm provided with the fixture by 2 elliptical slots of 10 x 20 mm at center distance of 86 mm.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas



Green  
**LED** | 100 W / 120 W  
Life **50000 hours** | HighEfficiency



#### TECHNICAL DATA

Ordering Code	System Power (W)	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
BAYBRITFLAREHB100WLED/5/APWBBOLTG	100 W	240 Vac	0.450	≥0.95	5700 K	≥70	13200 lm	Grey	≥130
BAYBRITFLAREHB100WLED757APNBBOLTG	100 W	240 Vac	0.450	≥0.95	5700 K	≥70	13150 lm	Grey	≥130
BAYBRITFLAREHB120WLED757PWBBOLTG	120 W	240 Vac	0.530	≥0.95	5700 K	≥70	15600 lm	Grey	≥115

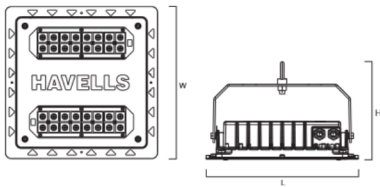
IS 10322 (Part 5/Sec 1) : 2012



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Driver code: LSSCRX2487 for 100 W, LSCELDLX0225 for 120 W

#### TECHNICAL DRAWING

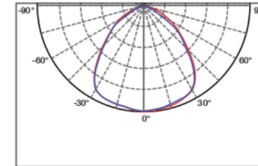


#### DIMENSION

System Power	Length l (mm)	Width w (mm)	Height h (mm)
100 W / 120 W	350 mm	350 mm	226 mm

All dimensions are in mm | Tolerance: ± 5 mm

#### PHOTOMETRIC DRAWING



# JETA VALOUR HB INT P 180 W / 200 W

Jeta Valour Int is a specially designed, multi-functional LED luminaire made to replace under canopy or industrial bay-lights.



## PRODUCT SPECIFICATIONS

### Features & Benefits

- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature :-10 °C to +50 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70/B_{50}}$ : 50000 hours
- IN-BUILT Surge Protection: 5 kV

### Housing & Finish

Die cast aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistance. SS Hardwares,

silicon gasket for maintaining ingress protection.

### Optics & Cover

UV Stabilised, polycarbonate lens with tempered protective toughened glass 4 mm, thermal shock and impact resistant (IK-07) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM/9 report & IES file).

### Light Source

High efficiency and long life LEDs with lumen efficacy of >150 lm/W with view angle of 120° to ensure better uniformity of light distribution (For detailed photometric data, please refer LM/9 report & IES file).

### Electronic Driver

Built-in potted electronic LED driver with lower THD, open circuit protection, surge voltage

protection & other safety test as per IS 15885 Part-2/Sec 13.

### Mounting

Surface or suspended mounting using powder coated MS bracket of thickness 4 mm provided with the fixture by 2 elliptical slots of 10x20 mm at center distance of 86 mm.

### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas



Green  
**LED** | 180 W / 200 W  
Life **50000 hours** | HighEfficiency



#### TECHNICAL DATA

Ordering Code	System Power (W)	Nominal Voltage (V ac)	Mains Current (A)	Power Factor	Colour Temp. (CCT)	CRI (Ra)	System Lumens (lm)	Colour of Fixture	System Luminous Efficacy (lm/W)
JETAVALOURHB180WLED75/PINTNBLTG	180 W	240 Vac	0.790	≥0.95	5700 K	≥70	24000 lm	Grey	≥120
JETAVALOURHB180WLED75/PINTWBLTG	180 W	240 Vac	0.790	≥0.95	5700 K	≥70	22800 lm	Grey	≥120
JETAVALOURHB200WLED75/PINTNBLTG	200 W	240 Vac	0.880	≥0.95	5700 K	≥70	24800 lm	Grey	≥120
JETAVALOURHB200WLED75/PINTWBLTG	200 W	240 Vac	0.880	≥0.95	5700 K	≥70	23800 lm	Grey	≥120

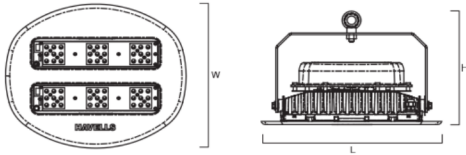
IS 10322 (Part 5/Sec 1) : 2012



Driver Code :LSCELDLX0284 for 180 W, LSCELDOX0338 for 200 W

10 kV External SPD with IP68 Connector : LSCELDLX0285 (to be ordered separately)

#### TECHNICAL DRAWING

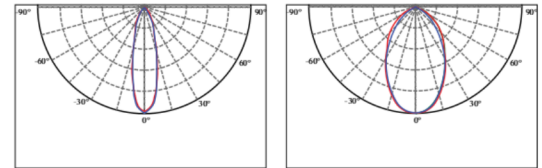


#### DIMENSION

System Power	Length l (mm)	Width w (mm)	Height h (mm)
180 W	415 mm	341 mm	270 mm
200 W	415 mm	341 mm	270 mm

All dimensions are in mm | Tolerance: ± 5 mm

#### PHOTOMETRIC DRAWING



# VALOUR HIGHBAY

## 180 W / 200 W

New generation, energy saving, aesthetically designed Highbay LED luminaire pressure die cast aluminum housing & non integral IP66 control gear for better thermal management with complete internal wiring. Control gear compartment capable of remote installation for easy maintenance



### PRODUCT SPECIFICATIONS

#### Features & Benefits

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiation
- Environment friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature :-10 °C to +50 °C
- Operating voltage range: 140 V - 270 V
- Average life  $L_{70, H_{70}}$  : 50000 hours

#### Housing & Finish

Polyester powder coated die cast aluminium housing in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistance.

Cable gland is used for cable entry and provision for ILoop In Loop Out

#### Light Source

High efficiency long life LED module with SMD LED package mounted on MCP/CB. Lumen efficacy of LED >140 lm/W and viewing angle of 120° to ensure better uniformity.

#### Lens & Cover

High quality PC lens with optional narrow & wide beam angles for uniform distribution and Toughened glass fixed to housing. (For Detailed photometric data, please refer LM /9 report & IES file).

#### Electronic Driver & Control Gear Box

Polyester powder coated die cast aluminium housing in grey finish with elegantly designed control gear box with built-in electronic LED driver with APFC, lower THD, Open Circuit

Protection, Over Voltage Protection, Surge Voltage Protection & other safety test as per IS 15885 Part-2/Sec 13,

#### Mounting

Suspended by means of heavy duty nickel plated, forged eye-bolt provided with the fixture.

#### Applications

- Cement & steel plants
- Warehouses
- Factories & assembly lines
- Toll plazas







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**Regional & Branch Offices:**

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Representative Offices: • Goa • Solapur • Gwalior • Kathmandu • Bhopal

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#### GENERAL CONDITIONS OF BUSINESS

- Prices are in Indian ` (Inclusive of GST)
- All prices are subject to Havells general terms & conditions of business.
- Warranty void for LED fixtures including drivers, if individual points of installations are not provided with proper earthing.
- Orders should be placed in case lot multiples & against the confirmed purchase order only.
- Continuous design improvement is a routine practice at Havells. Data provided may change without any prior intimation. Customers are advised to reconfirm the data or product dimensions before purchase with our local offices.
- This price list supersedes all our previous price list.
- Prices are subject to change without notice.
- Company reserves the right to issue amendments, which may arise due to any errors in the price list.

HSN Code	Products Included	GST Applicable
9405	LED Fixtures and LED Drivers	12%
9405*	Conventional Fixtures	18%
8504	Ballast (Electronic, HID)/ Igniters	18%
8543	Solar Street Lights/Mini Mast	5%
7308	Galvanized products	18%
8504*	Rest	18%
8539	Non-LED Lamps	18%

Actual products may vary in colour, design, description and colour combination etc. Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication. Specifications & performance data are constantly changing. Current details should therefore be checked with Havells Group. Copyright subsists. Imitation of trade dress, graphics and color scheme of this document is a punishable offence.







**HAVELLS**

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