



PROFESSIONAL LIGHTING SOLUTIONS

Catalogue 2017



Introduction of
Havells





Havells India Limited is a leading Fast Moving Electrical Goods (FMEG) Company 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, 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, Crabtree, Standard and Promptec. Its network constitutes of 4000 professionals, over 6000 dealers and 40 branches in the country and presence in over 50 countries globally. Its twelve state-of-the-art manufacturing plants in India located at Haridwar, Baddi, Sahibabad, Faridabad, Alwar, Neemrana and Guwahati are 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 400 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.

Havells alongwith 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 offering is 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 58000 students per day. The company has also built over 2000 eco-friendly bio toilets in government schools thus contributing to nation's Swachh Bharat Mission. 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 and efficiently, coupled with the vision to always think ahead.

Introduction of
Plants



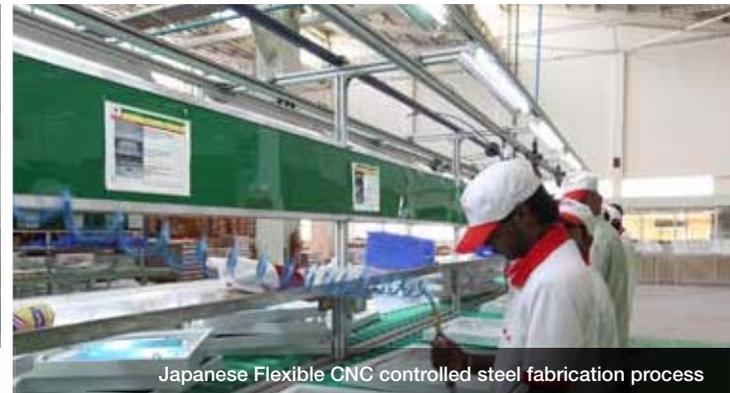
Neemrana Lighting Plant



Advanced technology cutting machine



Italian Robotised Box Bending Machines



Japanese Flexible CNC controlled steel fabrication process

Havells State of the art Luminaire Plant, Neemrana



CERTIFICATIONS



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 the accuracy in sheet punching and 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.

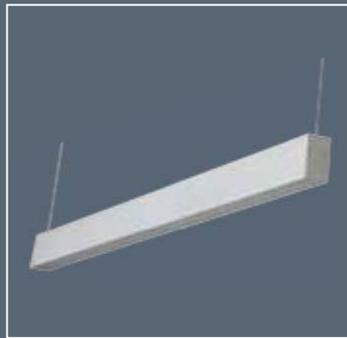
Building customer confidence by providing a wide range of quality products and service through team work.

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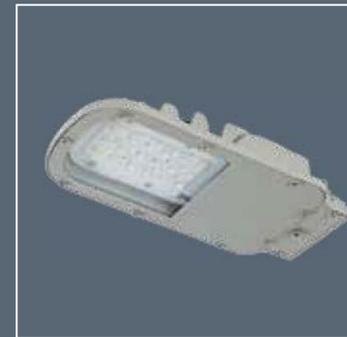
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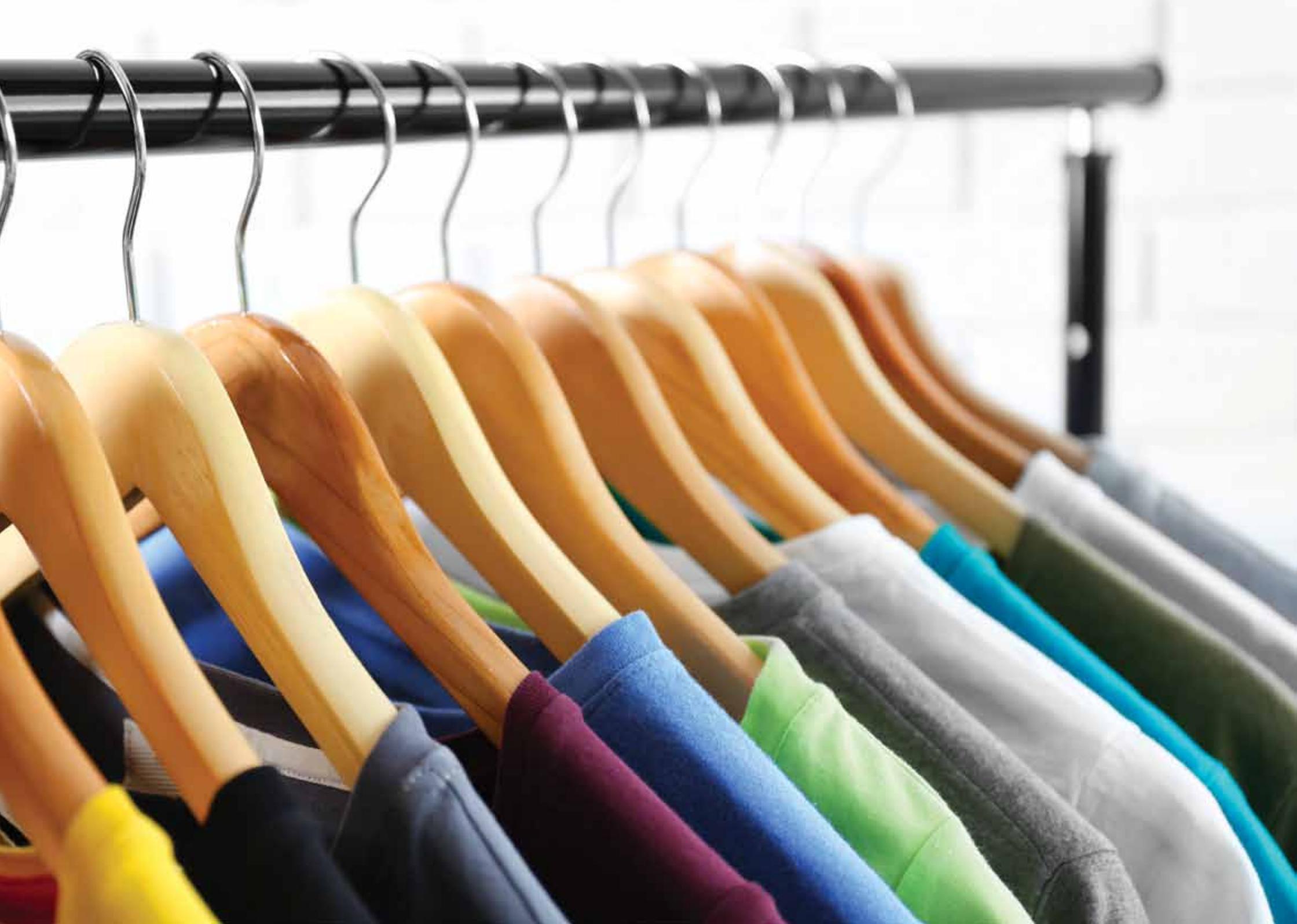


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Track Spots



With the high power LED, CYLINDRO offers various luminous intensity levels from 1500-3500 Lumens which is the perfect alternate to conventional HID lamps.



CYLINDRO

PRODUCT SPECIFICATIONS

Features & Benefits

- High quality COB LED gives excellent quality of light distribution
- 355° swivel and 90° elbow tilt
- Available in narrow and wide beam angles
- No harmful UV & IR radiations
- Environmental friendly as it does not contain mercury
- Operating temperature: -10° to 45°C
- Average life $L_{70}B_{50}$: 35000 hours

Housing & Finish

Pressure Die-cast aluminium housing (heat sink) with powder coated white finish.

Light source

High efficiency long life COB LED with high efficacy of ≥ 130 lm/W.

Optics

Honeycomb lens with faceted reflector and light enhancing film (LEF) for perfect beam pattern.

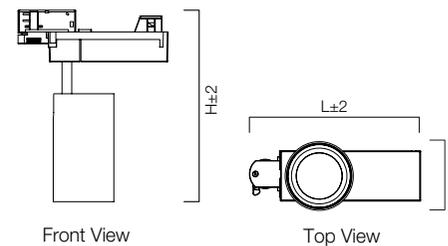
Electronic driver

Powered by an built-in isolated electronic LED driver.

Mounting

Suitable for installation with 3-circuit - 4-wire track.

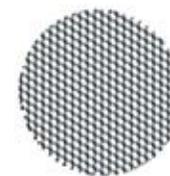
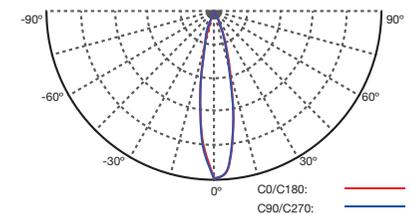
TECHNICAL DRAWING



System Power	Dia (Ø)	Length (L)	Height (H)
15W	70	180	212
25/35W	90	206	248

All dimensions are in mm
Tolerance: ± 2 mm

POLAR PLOT



LSSLOB0040 for Honeycomb Attachment 15W
LSSLOB0041 for Honeycomb Attachment 25W



APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Museums
- Airport Lounges



Green LED | 15/25W | Life 35000hrs | High Efficiency

ACCESSORIES

Description	Ordering Code
Track 1 Meter 3 Phase White	LSSLOW0057
Track 2 Meter 3 Phase White	LSSLOW0063
I Shaped Connector 3 Phase White	LSSLOW0060
L Shaped Connector 3 Phase White	LSSLOW0058
T Shaped Connector 3 Phase White	LSSLOW0059
Adjustable Suspension Kit 3 Meter 3 Phase	LSSLOX0087
1 Meter 3 Phase Track White Flat	LHFGAANNTN1W000
2 Meter 3 Phase Track White Flat	LHFGABNNTN1W000
1 Meter 3 Phase Track Black Flat	LHFGAAN1TN1K000
2 Meter 3 Phase Track Black Flat	LHFGABN2TN1K000
Track Straight Connector 3 Phase Black Flat	LSSLOB0031
Track L Connector 3 Phase Black Flat	LSSLOB0032
Track Straight Connector 3 Phase White Flat	LSSLOW0123
Track L Connector 3 Phase White Flat	LSSLOW0124

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	Beam angle	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEEAWPBIG1W015 wht	15W	240	24°	≥80	≥0.95	1500	3000K	≥100
LHEEAWPDIG1W015 wht	15W	240	24°	≥80	≥0.95	1575	4000K	≥105
LHEEAWPBIIH1W015 wht	15W	240	38°	≥80	≥0.95	1500	3000K	≥100
LHEEAWPDIH1W015 wht	15W	240	38°	≥80	≥0.95	1575	4000K	≥105
LHEEAWPBIG1W025 wht	25W	240	24°	≥80	≥0.95	2500	3000K	≥100
LHEEAWPDIG1W025 wht	25W	240	24°	≥80	≥0.95	2625	4000K	≥105
LHEEAWPBIIH1W025 wht	25W	240	38°	≥80	≥0.95	2500	3000K	≥100
LHEEAWPDIH1W025 wht	25W	240	38°	≥80	≥0.95	2625	4000K	≥105
LHEEAWPBIG1K015 blk	15W	240	24°	≥80	≥0.95	1500	3000K	≥100
LHEEAWPDIG1K015 blk	15W	240	24°	≥80	≥0.95	1575	4000K	≥105
LHEEAWPBIIH1K015 blk	15W	240	38°	≥80	≥0.95	1500	3000K	≥100
LHEEAWPDIH1K015 blk	15W	240	38°	≥80	≥0.95	1575	4000K	≥105
LHEEAWPBIG1K025 blk	25W	240	24°	≥80	≥0.95	2500	3000K	≥100
LHEEAWPDIG1K025 blk	25W	240	24°	≥80	≥0.95	2625	4000K	≥105
LHEEAWPBIIH1K025 blk	25W	240	38°	≥80	≥0.95	2500	3000K	≥100
LHEEAWPDIH1K025 blk	25W	240	38°	≥80	≥0.95	2625	4000K	≥105

Driver code : LSSLOW0179 for 15W, LSSLOW0180 for 25W.
Available in 5700K on request, honey comb attachment on request.

Fio offers a wide range of luminous flux depending on the application along with the possibility of narrow beam angles. A track based spotlight with a minimalistic modern design, ideal for any setting.



FIO

PRODUCT SPECIFICATIONS

Features & Benefits

- Versatile slim minimalist, all die-cast design
- 355° rotation for ease in directional control
- Available in narrow and wide Beam Angle with the help of Interchangeable reflectors
- High efficiency LEDs with far superior luminous flux per watt than existing low voltage halogen
- No harmful UV & IR radiations
- Environmental-friendly as it does not contain mercury
- Operating temperature: -10° to 45°C
- Average life $L_{70}B_{50}$: 35000 hours

Housing & Finish

Aluminium housing available in White and Black finish.

Light Source

High efficiency long life COB LED with high lumen efficacy ensuring better uniformity.

Optics

High purity anodized glossy faceted aluminium reflector.

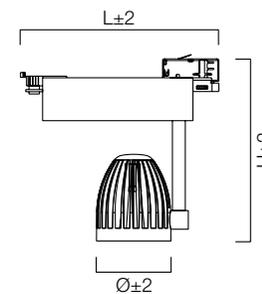
Electronic driver

Powered by an independent isolated electronic driver in ABS housing with Output Short Circuit protection, Over Voltage protection, Surge Voltage protection and other safety test as per IS:15885 Part 2/Sec 13.

Mounting

Suitable for installation with 3-circuit - 4-wire track.

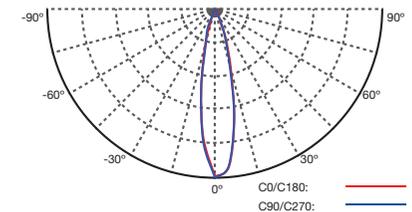
TECHNICAL DRAWING



System Power	Dia (Ø)	Length (L)	Height (H)
25W	79	236	203
35W	92	247	225

All dimensions are in mm
Tolerance: ± 2 mm

POLAR PLOT



APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 25/35W | Life 35000hrs | High Efficiency

ACCESSORIES

Description	Ordering Code
Track 1 Meter 3 Phase White	LSSLOW0057
Track 2 Meter 3 Phase White	LSSLOW0063
I Shaped Connector 3 Phase White	LSSLOW0060
L Shaped Connector 3 Phase White	LSSLOW0058
T Shaped Connector 3 Phase White	LSSLOW0059
Adjustable Suspension Kit 3 Meter 3 Phase	LSSLOX0087
1 Meter 3 Phase Track White Flat	LHFGAANN1W000
2 Meter 3 Phase Track White Flat	LHFGABN1W000
1 Meter 3 Phase Track Black Flat	LHFGAAN1TN1K000
2 Meter 3 Phase Track Black Flat	LHFGABN2TN1K000
Track Straight Connector 3 Phase Black Flat	LSSLOB0031
Track L Connector 3 Phase Black Flat	LSSLOB0032
Track Straight Connector 3 Phase White Flat	LSSLOW0123
Track L Connector 3 Phase White Flat	LSSLOW0124

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	Beam angle	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEEBZPBPE1W025 White	25W	240	55°	≥80	≥0.90	2150	3000K	≥86
LHEEBZPBPE1K025 Black	25W	240	55°	≥80	≥0.90	2150	3000K	≥86
LYEEBZPDPE1W025 White	25W	240	55°	≥80	≥0.90	2200	4000K	≥88
LHEEBZPDPE1K025 Black	25W	240	55°	≥80	≥0.90	2200	4000K	≥88
LYEEBZPBPB1W035 White	35W	240	55°	≥80	≥0.90	3010	3000K	≥86
LYEEBZPDPB1W035 Black	35W	240	55°	≥80	≥0.90	3080	4000K	≥88

Driver code : LSSLOB0024 for 25W, LSSLOB0025 for 35W.



THE POWER HOUSE OF LIGHT, high lumen output ideal for the retail lighting. The stylish Scuba replaces the conventional HIT lamps with the high colour rendering index.



SCUBA

PRODUCT SPECIFICATIONS

Features & Benefits

- Ideal for retail and museum applications
- Available in 50° wide spread beam angle
- High Colour rendering Index specially for the retail applications
- 355° rotation for ease in directional control
- Available in 35W
- IR/UV – Free light source without heat radiation
- High efficiency LEDs with superior luminous flux per watt
- Long life up to 50k hours, fit and forget maintenance free lighting solution
- Luminaires supplied with complete LED driver
- Average life $L_{70, B_{50}}$: 50000 hours

Housing & Finish

Aluminium housing available in White and Black finish.

Light Source

High efficiency long life COB LED with high lumen efficacy ensuring better uniformity.

Optics

Lens based track spot light

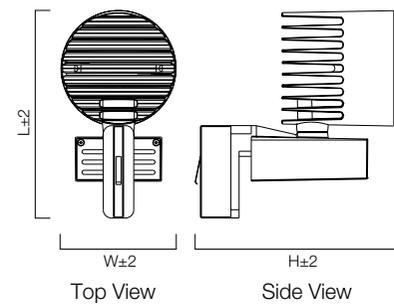
Electronic driver

Integrated driver with over Voltage protection, Surge Voltage protection and other safety test as per IS:15885 Part 2/Sec 13.

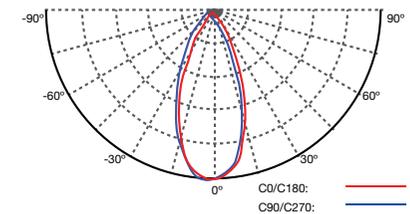
Mounting

Suitable for installation with 3-circuit - 4-wire track.

TECHNICAL DRAWING



POLAR PLOT



System Power	Length (L)	Width (W)	Height (H)
35W	220	140	210

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 35W | Life 50000hrs | High Efficiency

ACCESSORIES

Description	Ordering Code
Track 1 Meter 3 Phase White	LSSLOW0057
Track 2 Meter 3 Phase White	LSSLOW0063
I Shaped Connector 3 Phase White	LSSLOW0060
L Shaped Connector 3 Phase White	LSSLOW0058
T Shaped Connector 3 Phase White	LSSLOW0059
Adjustable Suspension Kit 3 Meter 3 Phase	LSSLOX0087
1 Meter 3 Phase Track White Flat	LHFGAANN1W000
2 Meter 3 Phase Track White Flat	LHFGABN1W000
1 Meter 3 Phase Track Black Flat	LHFGAAN1TN1K000
2 Meter 3 Phase Track Black Flat	LHFGABN2TN1K000
Track Straight Connector 3 Phase Black Flat	LSSLOB0031
Track L Connector 3 Phase Black Flat	LSSLOB0032
Track Straight Connector 3 Phase White Flat	LSSLOW0123
Track L Connector 3 Phase White Flat	LSSLOW0124

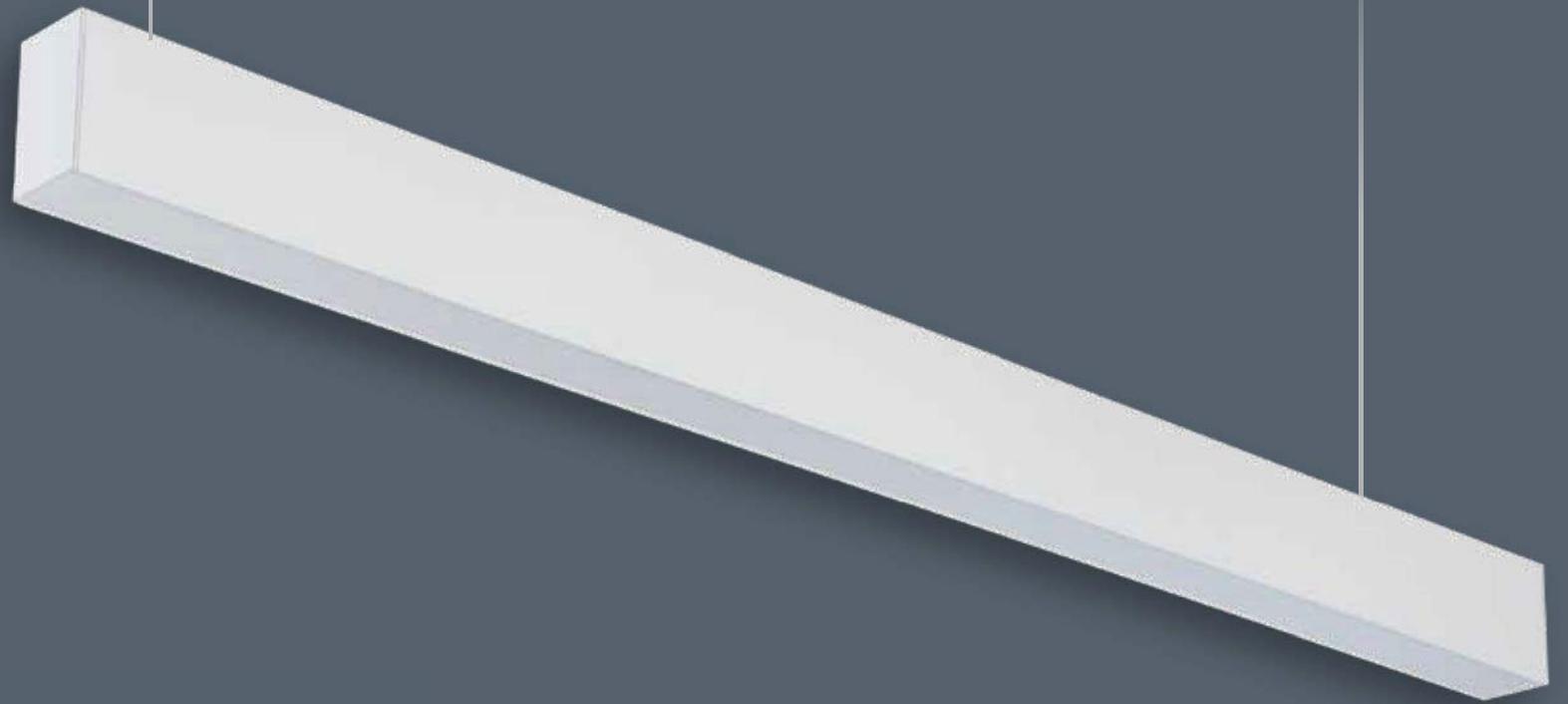
TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	Beam angle	CRI	Power Factor	Lumen (lm)	Colour	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEEGMP5PI1K035	35W	240	55°	≥90	≥0.95	2625	Black	3000K	≥75
LHEEGMP6PI1K035	35W	240	55°	≥90	≥0.95	2800	Black	4000K	≥80
LHEEGMP7PI1K035	35W	240	55°	≥80	≥0.95	2800	Black	6500K	≥80
LHEEGMP6PI1W035	35W	240	55°	≥80	≥0.95	2685	White	3000K	≥75
LHEEGMP5PI1W035	35W	240	55°	≥80	≥0.95	2800	White	4000K	≥80
LHEEGMP7PI1W035	35W	240	55°	≥80	≥0.95	2975	White	6500K	≥85



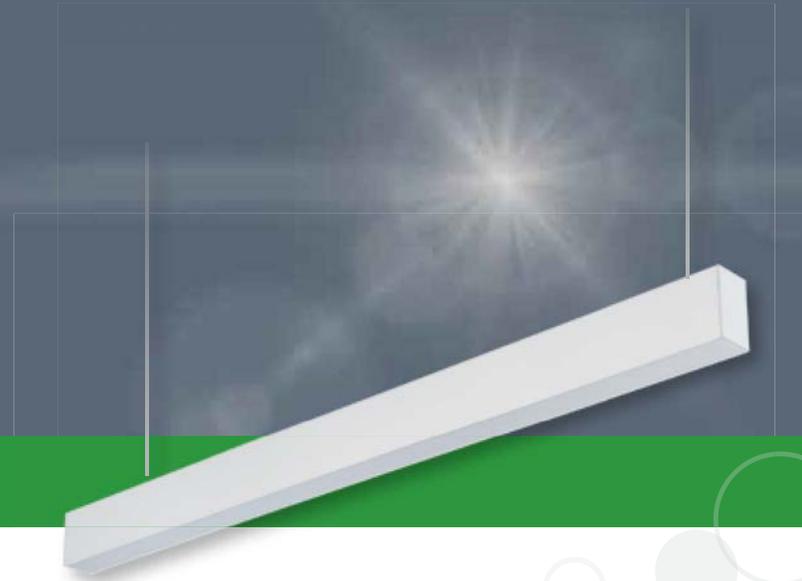


Linear



Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.



DESTELLO 45 SURFACE / SUSPENDED

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort.
- Long life & Photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance.
- No harmful UV & IR radiations.
- Environment-friendly as it does not contain Mercury.
- Instant light with low running temperatures.
- Operating temperature :- 10°C to +45°C
- Operating voltage range : 140-270V
- Average life $L_{70B_{50}}$: 50000 hours
- Continuous, stand alone Installation option
- Architectural shapes available - "X", "+", "Y" & "L" on request.

Housing & Finish

Aluminum extruded housing in white powder coated finish and plastic moulded End caps.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution.

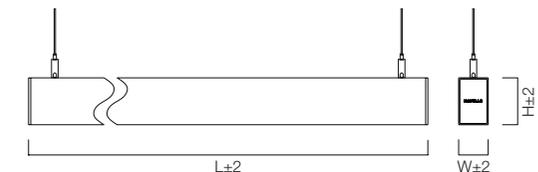
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suitable for suspended/ surface mounting with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Also suitable for continuous mounting using joining kits. Refer accessories.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
25W	1136	45	71
36W	1136	45	71

All dimensions are in mm
Tolerance: ± 2 mm

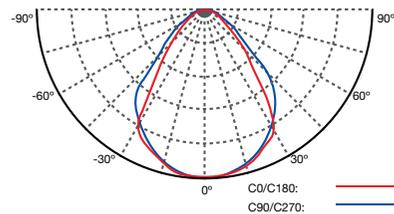
APPLICATIONS

- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries



Green LED | 25/36W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEDDLN6PN1W025	25W	240	≥80	≥0.90	1750	4000K	≥70
LYEDDLN7PL1W025	25W	240	≥80	≥0.90	1875	5700K	≥75
LYEDDLN6PQ1W036	36W	240	≥80	≥0.90	2520	4000K	≥70
LYEDDLN7PL1W036	36W	240	≥80	≥0.90	2700	5700K	≥75

Joining Kit : LSSLOW0104. To be ordered separately for continuous installations.

Driver code : LSSLOW0046 - 25W, LSSLOW0106 - 36W

Options available:- 2255mm - 50W and 72W, 570mm - 12W and 18W

Special shapes:- "X", "+", "Y", "L"

Also available in silver anodized finish.



Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.



DESTELLO 45 RECESS

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort
- Long life & Photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature :- 10°C to +45°C
- Operating voltage range : 140-270V
- Average life $L_{70B_{50}}$: 50000 hours
- Continuous, stand alone Installation option
- Architectural shapes available - "X", "+", "Y" & "L" on request

Housing & Finish

Aluminum extruded housing in white powder coated finish and plastic moulded End capss.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution.

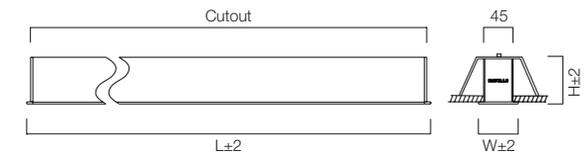
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other safety tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suitable for Recess mounting through mounting clamps as per installation manual provided with the fixture.
- Can be installed in continuous mounting using joining kits. Refer accessories.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)	Cutout Size
25W	1148	61	71	1136x45
36W	1148	61	71	1136x45

All dimensions are in mm
Tolerance: ± 2 mm

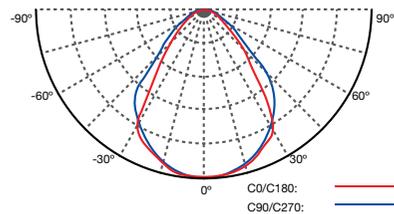
APPLICATIONS

- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries



Green LED | 25/36W | Life 50000hrs | High Efficiency

POLAR PLOT

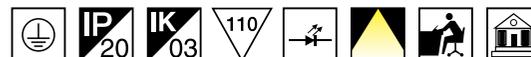


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEDDLN6PS1W025	25W	240	≥80	≥0.95	1750	4000K	≥70
LYEDDLN7PS1W025	25W	240	≥80	≥0.95	1875	5700K	≥75
LYEDDLN6PN1W036	36W	240	≥80	≥0.95	2520	4000K	≥70
LYEDDLN7PS1W036	36W	240	≥80	≥0.95	2700	5700K	≥75

Joining Kit : LSSLOW0102. To be ordered separately for continuous installations.

Driver code : LSSLOW0046 - 25W, LSSLOW0106 - 36W



Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.



DESTELLO 70 SURFACE / SUSPENDED

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort.
- Long life & Photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance.
- No harmful UV & IR radiations.
- Environment-friendly as it does not contain Mercury.
- Instant light with low running temperatures.
- Operating temperature :- 10°C to +45°C
- Operating voltage range : 140-270V
- Average life $L_{70B_{50}}$: 50000 hours
- Continuous, stand alone Installation option
- Architectural shapes available - "X", "+", "Y" & "L" on request..

Housing & Finish

Aluminum extruded housing in white powder coated finish and metal End caps.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution.

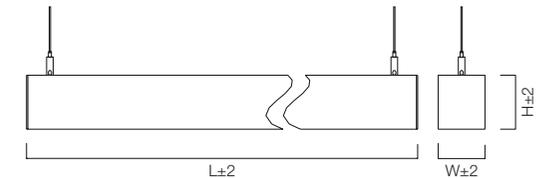
Control Gear

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suitable for suspended/ surface mounting with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Also suitable for continuous mounting using joining kits. Refer accessories.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
36W	1134	73	83

All dimensions are in mm
Tolerance: ± 2 mm

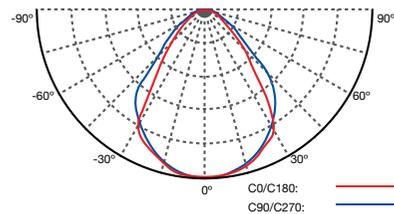
APPLICATIONS

- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries



Green LED | 36W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEDDLN6UL1W036	36W	240	≥80	≥0.95	2520	4000K	≥70
LYEDDLN7UL1W036	36W	240	≥80	≥0.95	2700	5700K	≥75

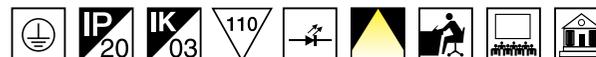
Joining Kit : LSSLOW0105. To be ordered separately for continuous installations.

Driver code : LSSLOW0106 - 36W

Options available:- 2255mm - 72W, 570mm - 18W

Special shapes:- "X", "+", "Y", "L"

Also available in silver anodized finish.



Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.



DESTELLO 70 RECESS

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort.
- Long life & Photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance.
- No harmful UV & IR radiations.
- Environment-friendly as it does not contain Mercury.
- Instant light with low running temperatures.
- Operating temperature :- 10°C to +45°C
- Operating voltage range : 140-270V
- Average life $L_{70B_{50}}$: 50000 hours
- Continuous, stand alone Installation option
- Architectural shapes available - "X", "+", "Y" & "L" on request.

Housing & Finish

Aluminum extruded housing in white powder coated finish and metal End caps.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution.

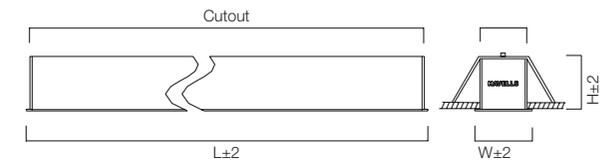
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other safety tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suitable for Recess mounting through mounting clamps as per installation manual provided with the fixture.
- Can be installed in continuous mounting using joining kits. Refer accessories.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)	Cutout Size
36W	1148	89	83	1136x73

All dimensions are in mm
Tolerance: ± 2 mm

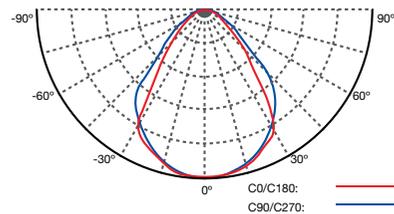
APPLICATIONS

- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries



Green LED | 36W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEDDLN6SL1W036	36W	240	≥80	≥0.95	2520	4000K	≥70
LYEDDLN7PQ1W036	36W	240	≥80	≥0.95	2700	5700K	≥75

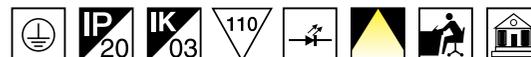
Joining Kit : LSSLOW0103. To be ordered separately for continuous installations.

Driver code : LSSLOW0106 - 36W

Options available:- 2255mm - 72W, 570mm - 18W

Special shapes:- "X", "+", "Y", "L"

Also available in silver anodized finish.



Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across ceilings. The minimal design affords a total-light effect providing outstanding visual comfort with reductions in luminance levels, at the same time illuminates the ceiling with a harmonious and pleasant appearance.

The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.



DESTELLO DIRECT-INDIRECT

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort.
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours
- Continuous, stand alone Installation option

Housing & Finish

Aluminum extruded housing and metal endcaps in white powder coated finish.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120 degree to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution. Upward and downward light ratio 35:65

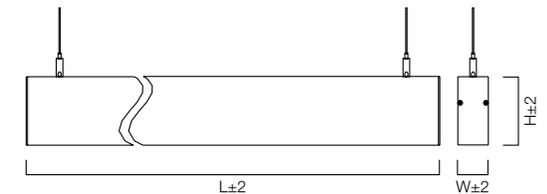
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suspended mounting with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Also suitable for continuous mounting using joining kits. Refer accessories.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
36W	1146	45	101

All dimensions are in mm
Tolerance: ± 2 mm

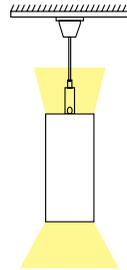
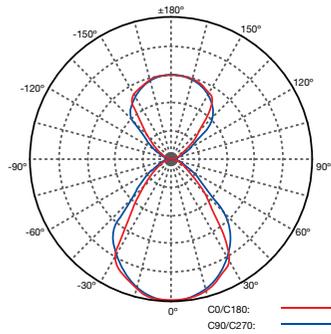
APPLICATIONS

- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries



Green LED | 36W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

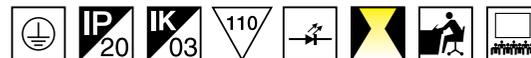
Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEDDLP6PY1W040	36W	240	≥80	≥0.95	2700	4000K	≥75
LHEDDLP7PY1W040	36W	240	≥80	≥0.95	2900	5700K	≥80

Joining Kit : Available on request.

Driver code : LSSLOW0106.

Options available:- 2255mm - 72W, 570mm - 18W

Also available in silver anodized finish.



Techzone introduces a uniquely clean, simple lighting system offering continuous lighting solutions for Armstrong Techzone ceiling system. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.



TECHZONE

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort.
- Long life & Photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance.
- No harmful UV & IR radiations.
- Environment-friendly as it does not contain Mercury.
- Instant light with low running temperatures.
- Operating temperature :- 10°C to +45°C
- Operating voltage range : 140-270V
- Average life $L_{70}B_{50}$: 50000 hours
- Continuous, stand alone Installation option

Housing & Finish

Housing in aluminum extrusion and CRCA in white powder coated finish and metal End caps.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance PMMA opal diffuser for glare-free symmetric light distribution.

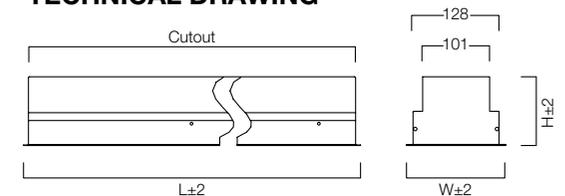
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other safety tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suitable for Recess mounting in techzone ceiling through mounting clamps as per installation manual provided with the fixture.
- Can be installed in continuous mounting using joining kits.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)	Cutout Size
28W	1196	146	132	1184x132

All dimensions are in mm
Tolerance: ± 2 mm

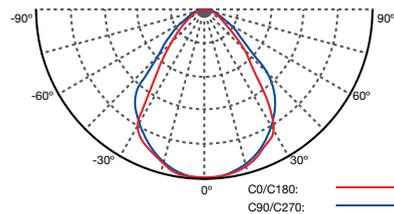
APPLICATIONS

- Corporate offices
- Meeting rooms
- Educational facilities
- Corridors and Libraries



Green LED | 28W | Life 50000hrs | High Efficiency

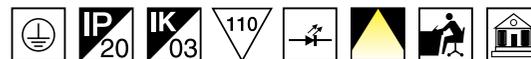
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEDDLP6PL1W028	28W	240	≥80	≥0.95	2800	4000K	≥100
LHEDDLP7PL1W028	28W	240	≥80	≥0.95	2950	5700K	≥105

Driver code : LSSCRX2159-2 nos.



Wingo fully enhances the architectural geometries and visual comfort. Specially designed near to transparent optical system that provides sufficient light levels on work planes, at the same time, illuminates the ceiling with a harmonious and pleasant appearance.

WINGO LED

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Made up of high quality extruded aluminum anodized channel for effective thermal

management, sturdiness and excellent corrosion resistant. Decorative grain finish ABS endcaps snap fitted to the housing, to enhance aesthetic appeal of the fixture.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120° to ensure better uniformity.

Optics

Special nanometer LGP that decouples the light fed into the sheet across the surface area by integrated prismatic optics, nearly 40% of light indirectly in a batwing and rest 60% de-glared downlight.

Electronic Driver

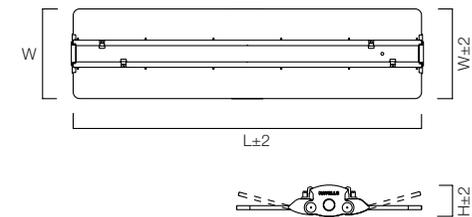
Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Suspended mounting with height adjustable suspension kit as per the instruction manual provided with the fixture.



TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
40W	1112	280	48

All dimensions are in mm
Tolerance: ± 2 mm

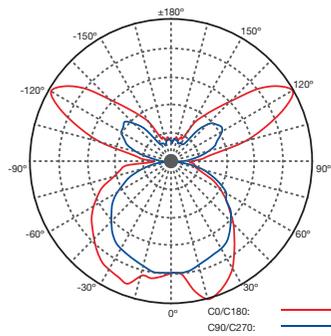
APPLICATIONS

- Conference rooms
- Director's cabin
- High end workspaces
- High end receptions and counters



Green LED | 40W | Life 50000hrs | High Efficiency

POLAR PLOT

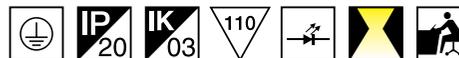


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEDDGP5PW1W040	40W	240	≥80	≥0.95	2600	3000K	≥65
LHEDDGP6PW1W040	40W	240	≥80	≥0.95	2800	4000K	≥70
LHEDDGP7PW1W040	40W	240	≥80	≥0.95	3000	5700K	≥75

Driver code : LSLD36V0900PA(N).

IS 10322 (Part 5/Sec 1): 2012 IS 15885 (Part 2/Sec 13)



Energy saving, environmental friendly, long life, decorative, corrosion resistant, suspended luminaires with PC diffuser and extruded aluminium anodised housing with LEDs as light source.



AVION

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Made up of high quality extruded aluminium anodised channel for effective thermal management, sturdiness and excellent corrosion resistant. 3 way 6A extra connector is provided inside the housing for loop in-loop out arrangement.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120 degree to ensure better uniformity.

End caps

Decorative grain finish grey coloured ABS End capss snap fitted to the housing, to increase the aesthetic appeal of the fixture.

Cover

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

Optics

Reflector made of LEF sheet which is pasted on Al. extrusion (heat sink) on both side of channel to enhance the lumen output of the fixture.

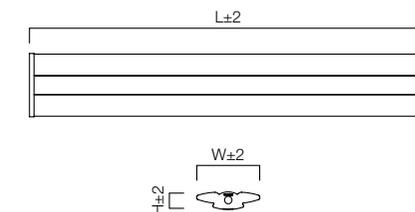
Electronic Driver

Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Can be suspended with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Can be installed in continuous with click shut mechanism as per the instruction manual provided with the fixture Protection and other reliability test as per IS15885 Part2/Sec13.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
40W	1146	101	45

All dimensions are in mm
Tolerance: ± 2 mm

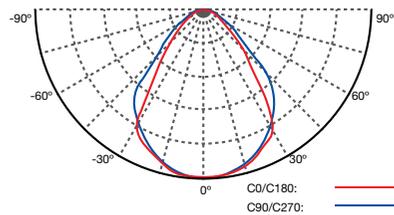
APPLICATIONS

- Hospitals
- Banks & Offices
- Corridors & Lobbies
- Reception & Public service areas
- Showrooms



Green LED | 40W | Life 50000hrs | High Efficiency

POLAR PLOT

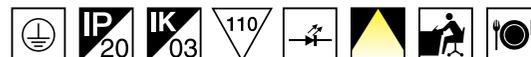


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEDDGN5IX1W040	40W	240	≥80	≥0.95	3600	3000K	≥90
LHEDDGN6IX1W040	40W	240	≥80	≥0.95	3800	4000K	≥95
LHEDDGN7IX1W040	40W	240	≥80	≥0.95	4000	5700K	≥100

Driver code : LSSCRX2159-2 nos.

IS 10322 (Part 5/Sec 1): 2012



Suspended/ Surface mounted architectural luminaire provides uniquely clean and simple lighting system with soft light and glare-free illumination. Available in continuous mounting option, Consta is the ideal solution for every space.



CONSTA LED SURFACE / SUSPENDED

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Made up of CRCA white powder coated for effective thermal management, sturdiness and excellent corrosion resistant.

Light source

High efficiency long life LED package in integral module with lumen efficacy ≥ 135 Lm/W and viewing angle of 120 degree to ensure better uniformity.

End caps

Decorative grain finish white coloured ABS End capss snap fitted to the housing, to increase the aesthetic appeal of the fixture.

Cover

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

Electronic Driver

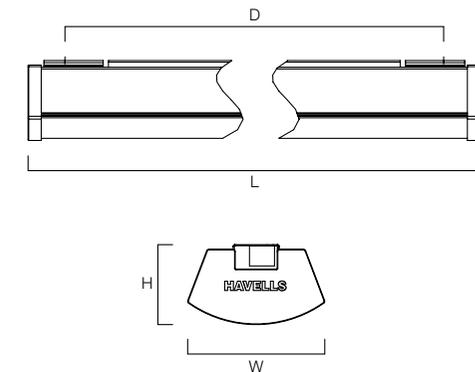
Powered by an integral isolated low THD

electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15885 Part 2/ Sec 13.

Mounting

- Can be suspended with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Can be installed in continuous with click shut mechanism as per the instruction manual provided with the fixture Protection and other reliability test as per IS15885 Part2/Sec13.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Suspention Wire Distance (D)
20W	600	106	60	544
40W	1200	106	60	1144

All dimensions are in mm
Tolerance: ± 2 mm

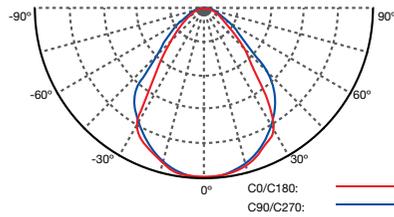
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software development centers
- Modern work spaces
- Hospital premises



Green LED | 20/40W | Life 50000hrs | High Efficiency

POLAR PLOT

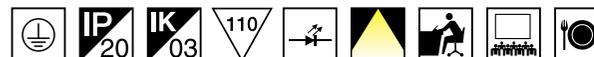


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHECDOL5PW1W020	20W	240	≥80	≥0.95	1800	3000K	≥90
LHECDOL6PW1W020	20W	240	≥80	≥0.95	1900	4000K	≥95
LHECDOL7PW1W020	20W	240	≥80	≥0.95	2000	5700K	≥100
LHECDOL5PW1W040	40W	240	≥80	≥0.95	3600	3000K	≥90
LHECDOL6PW1W040	40W	240	≥80	≥0.95	3800	4000K	≥95
LHEYBYP7PE1W040	40W	240	≥80	≥0.95	4000	5700K	≥100

Driver code : LSSCRX1763 for 20W, LSSCRX1763 - 2 nos. for 40W.

IS 10322 (Part 5/Sec 1): 2012





Panels



Ultra modern recess mounting luminaires with high performance LEDs, suitable for mounting with Armstrong/ Grid ceiling.



VENUS NEO

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

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

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

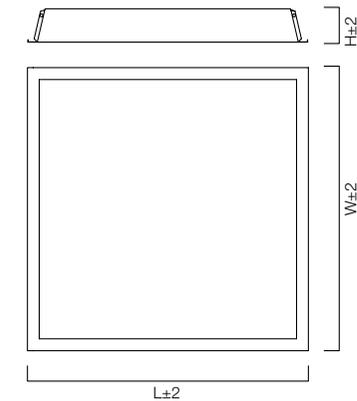
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability test as per IS:15885 Part 2/Sec 13.

Mounting

Suitable only for Armstrong/Grid ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
28W	595	595	76	570x570
34W	595	595	76	570x570
42W	595	595	76	570x570

All dimensions are in mm
Tolerance: ± 2 mm

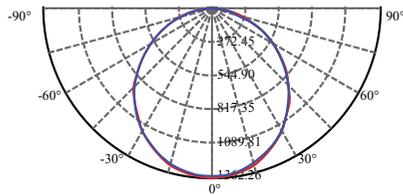
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software centers
- Modern work spaces
- Hospital premises



Green LED | 28/34/42W | Life 50000hrs | High Efficiency

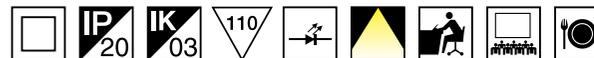
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWDRP5PK1W028	28W	240	≥80	≥0.95	2800	3000K	≥100
LHEWDRP6PK1W028	28W	240	≥80	≥0.95	3000	4000K	≥105
LHEWDRP7PK1W028	28W	240	≥80	≥0.95	3100	5700K	≥110
LHEWDRP5PK1W034	34W	240	≥80	≥0.95	3150	3000K	≥90
LHEWDRP6PK1W034	34W	240	≥80	≥0.95	3320	4000K	≥95
LHEWDRP7PK1W034	34W	240	≥80	≥0.95	3600	5700K	≥105
LHEWDRP5PK1W042	42W	240	≥80	≥0.95	3650	3000K	≥85
LHEWDRP6PK1W042	42W	240	≥80	≥0.95	3850	4000K	≥90
LHEWDRP7PK1W042	42W	240	≥80	≥0.95	4200	5700K	≥100

Driver code: LSSCRX2118 for 28W, LSSCRX1789 for 34W, LSSCRX1781 for 42W.



IS 15885 (Part 2/Sec 13)



Environmental-friendly, new generation, aesthetically designed, ultra modern recess mounting luminaires with high brightness SMD LEDs as light source, suitable for Armstrong/Grid ceiling.



PLUTO NEO 2x2

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

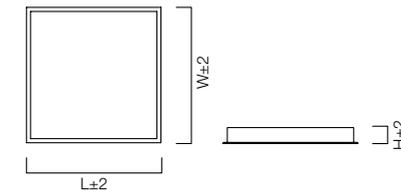
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable only for Armstrong ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
28W	595	595	70	580x580
34W	595	595	70	580x580
42W	595	595	70	580x580

All dimensions are in mm
Tolerance: ± 2 mm

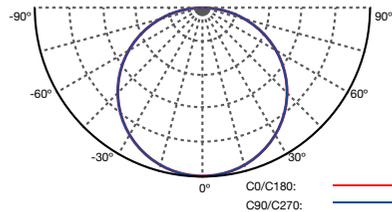
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software centers
- Modern work spaces
- Hospital premises



Green LED | 28/34/42W | Life 50000hrs | High Efficiency

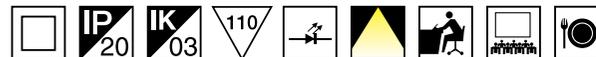
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEJP5PL1W028	28W	240	≥80	≥0.95	3100	3000K	≥110
LHEWEJP6PL1W028	28W	240	≥80	≥0.95	3250	4000K	≥115
LHEWEJP7PL1W028	28W	240	≥80	≥0.95	3400	5700K	≥120
LHEWEJP6PL1W034	34W	240	≥80	≥0.95	3800	4000K	≥110
LHEWEJP7PL1W034	34W	240	≥80	≥0.95	4000	5700K	≥115
LHEWEBP6QL1W034 (1-10V)	34W	240	≥80	≥0.90	3800	4000K	≥110
LHECDNL7QL1W034 (1-10V)	34W	240	≥80	≥0.90	4000	5700K	≥117
LHEWEIP6JL1W034 (Dali)	34W	240	≥80	≥0.90	3800	4000K	≥110
LHEWEIP7JL1W034 (Dali)	34W	240	≥80	≥0.90	4000	5700K	≥117
LHEWEJP6PL1W042	42W	240	≥80	≥0.95	4400	4000K	≥105
LHEWEJP7PL1W042	42W	240	≥80	≥0.95	4640	5700K	≥110

Driver code: LSSCRX2118 for 28W, LSSCRX1789 for 34W, LSSCRX1781 for 42W.



IS 15885 (Part 2/Sec 13)



Environmental-friendly, new generation, aesthetically designed, ultra modern recess mounting luminaire with high brightness SMD LEDs as light source, suitable for Armstrong/Grid ceiling.



PLUTO NEO 4X1

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

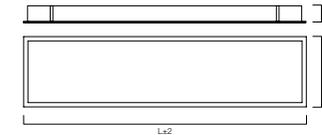
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS: 15885 Part 2/Sec 13.

Mounting

Recessed mounted luminaires suitable for Armstrong/Grid ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
30W	1195	295	70	1180x280
36W	1195	295	70	1180x280

All dimensions are in mm
Tolerance: ± 2 mm

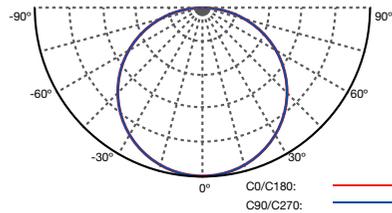
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software centers
- Modern work spaces
- Hospital premises



Green LED | 30/36W | Life 50000hrs | High Efficiency

POLAR PLOT

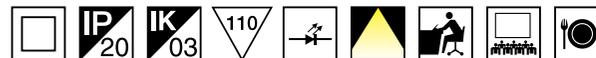


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEJP6PW1W030	30W	240	≥80	≥0.95	3080	4000K	≥100
LHEWEJP7PW1W030	30W	240	≥80	≥0.95	3600	5700K	≥120
LHEWEJP6PW1W036	36W	240	≥80	≥0.95	4000	4000K	≥110
LHEWEJP7PW1W036	36W	240	≥80	≥0.95	4250	5700K	≥115

Driver code: LSSCRX2118 for 30W, LSSCRX1789 for 36W.

IS 15885 (Part 2/Sec 13)



Aesthetically designed 2x2 LED flat panel provides soft light and glare-free symmetrical illumination suitable for recessed mounted fixture suitable for Armstrong/Grid/POP ceiling (with wedge brackets).



PLUTO 2X2

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

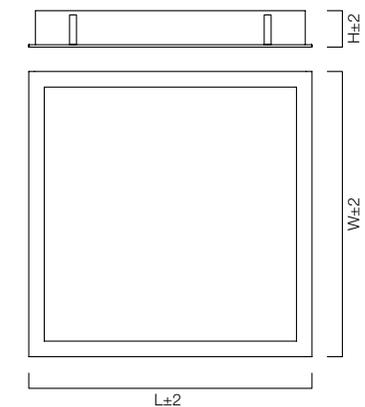
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Recessed mounted fixture suitable for Armstrong/Grid/ POP ceiling (with wedge brackets)

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
28W	595	595	70	580x580
34W	595	595	70	580x580
42W	595	595	70	580x580

All dimensions are in mm
Tolerance: ± 2 mm

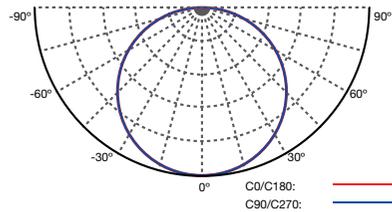
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises



Green LED | 28/34/42W | Life 50000hrs | High Efficiency

POLAR PLOT

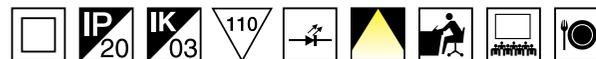


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEIP5PW1W028	28W	240	≥80	≥0.95	3100	3000K	≥110
LHEWEIP6PW1W028	28W	240	≥80	≥0.95	3250	4000K	≥115
LHEWEIP7PW1W028	28W	240	≥80	≥0.95	3400	5700K	≥120
LHEWEIP6PW1W034	34W	240	≥80	≥0.95	3800	4000K	≥110
LHEWEIP7PW1W034	34W	240	≥80	≥0.95	4000	5700K	≥115
LHEWEIP6PW1W042	42W	240	≥80	≥0.95	4400	4000K	≥105
LHEWEIP7PW1W042	42W	240	≥80	≥0.95	4640	5700K	≥110

Driver code: LSSCRX2118 for 28W, LSSCRX1789 for 34W, LSSCRX1791 for 42W.

IS 15885 (Part 2/Sec 13)



Aesthetically designed 4x1 LED flat panel provides soft light and glare-free symmetrical illumination suitable for recessed mounted fixture suitable for Armstrong/Grid/POP ceiling(with wedge brackets).



PLUTO 4X1

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

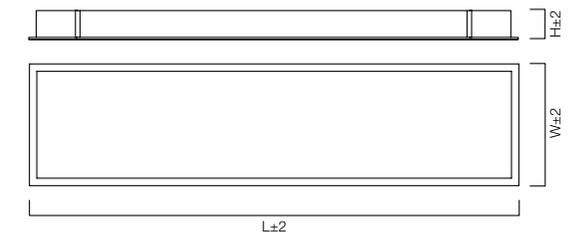
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability test as per IS:15885 Part 2/Sec 13.

Mounting

Suitable only for Armstrong/Grid & POP ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
30W	1195	295	70	1180x270
36W	1195	295	70	1180x270

All dimensions are in mm
Tolerance: ± 2 mm

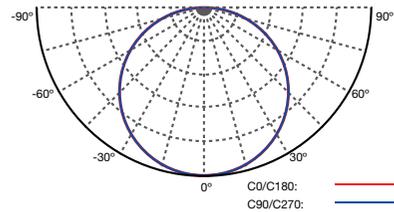
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software centers
- Modern work spaces
- Hospital premises



Green LED | 30/36W | Life 50000hrs | High Efficiency

POLAR PLOT

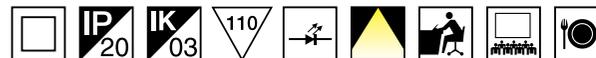


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEIP6PW1W030	30W	240	≥80	≥0.95	3160	4000K	≥105
LHEWEIP7PW1W030	30W	240	≥80	≥0.95	3320	5700K	≥110
LHEWEIP6PW1W036	36W	240	≥80	≥0.95	3800	4000K	≥105
LHEWEIP7PW1W036	36W	240	≥80	≥0.95	4000	5700K	≥111

Driver code: LSSCRX2118 for 30W, LSSCRX1789 for 36W.

IS 15885 (Part 2/Sec 13)



High efficacy 2x1 recess flat panel with high brightness LED for glare-free homogeneous illumination, suitable for recessed mounting, Armstrong/POP/GB ceiling.

PLUTO 2X1



PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

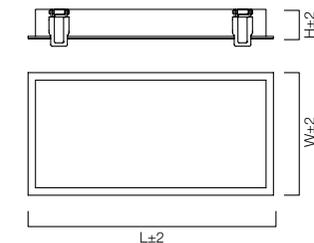
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable only for Armstrong/Grid & POP ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
20W	595	295	70	580x280
28W	595	295	70	580x280

All dimensions are in mm
Tolerance: ± 2 mm

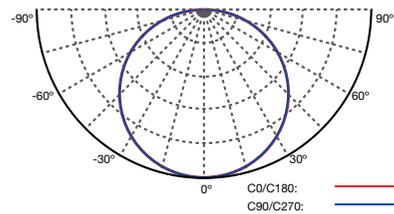
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises



Green LED | 20/28W | Life 50000hrs | High Efficiency

POLAR PLOT

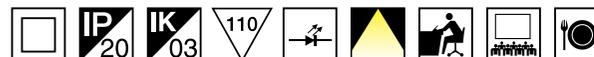


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEJP6PW1W020	20W	240	≥80	≥0.95	1920	4000K	≥95
LHEWEJP7PW1W020	20W	240	≥80	≥0.95	2000	5700K	≥100
LHEWEIP6IW1W028	28W	240	≥80	≥0.95	2840	4000K	≥100
LHEWEIP6IW1W028	28W	240	≥80	≥0.95	2960	5700K	≥105

Driver code: LSSCRX1837 for 20W, LSSCRX2188 for 28W

IS 15885 (Part 2/Sec 13)



High efficacy 1x1 recess LED flat panel with high brightness LED for glare-free homogenous illumination, suitable for Armstrong/POP/GB ceiling.



PLUTO 1X1

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

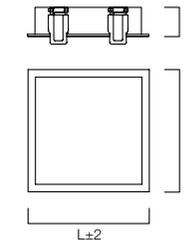
Electronic Driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable only for Armstrong/Grid & POP ceiling.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
15W	295	295	70	280x280
15W	295	295	70	280x280

All dimensions are in mm
Tolerance: ± 2 mm

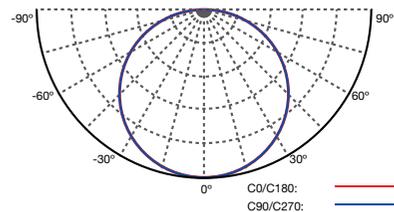
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises



Green LED | 15W | Life 50000hrs | High Efficiency

POLAR PLOT

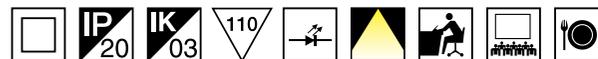


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEJP6PW1W015	15W	240	≥80	≥0.95	1200	4000K	≥80
LHEWEJP7PW1W015	15W	240	≥80	≥0.95	1280	5700K	≥85

Driver code: LHGDADAFCA1015.

IS 15885 (Part 2/Sec 13)



Ultra Slim recess mounted luminaires with high brightness LED package and Unique pattern acrylic de-glaring diffuser sheet for glare-free uniform light distribution suitable for armstrong / grid ceiling.



ENDURA SLIM PRO PLUS

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

White powder coated aluminium extruded frame for better thermal management & CRCA sheet used as a back cover and fixed with aluminium extrusion through SS screws.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Diffuser

Micro structured wave guide (LGP), Opal Polycarbonate diffuser for glare-free, symmetrical light distribution.

Electronic Driver

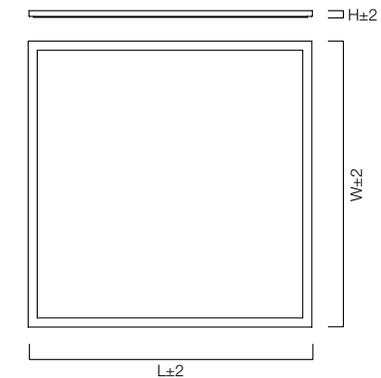
Powered by independent isolated, SELV output Electronic Driver (SMPS based constant current supply) with Short-circuit protection, Over Voltage protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Connector is provided at the back of the fixture for input supply connection.

Mounting

- Suitable for armstrong ceiling
- Provision for open suspension with chain hooks through 4 holes (nos.) of $\varnothing 6$ mm provided behind the fixture

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
36W	595	595	11

All dimensions are in mm
Tolerance: ± 2 mm

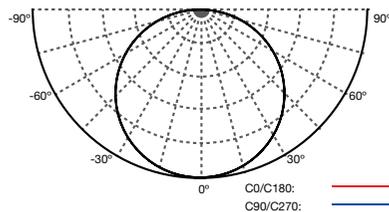
APPLICATIONS

- Conference rooms
- Lobbies
- Hotels
- Jewellery shops
- Offices



Green LED | 36W | Life 50000hrs | High Efficiency

POLAR PLOT

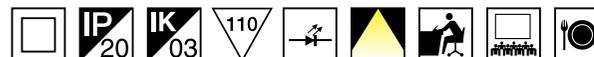


TECHNICAL DATA (Driver to be ordered separately)

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHECDIL5PP1W036	36W	240	≥80	≥0.95	3080	3000K	≥85
LHECDIL6PP1W036	36W	240	≥80	≥0.95	3250	4000K	≥90
LHECDIL7PP1W036	36W	240	≥80	≥0.95	3430	5700K	≥95

Driver code : LHGDODCHERAL036.

IS 15885 (Part 2/Sec 13)



Ultra Slim recess mounted luminaires 1x4 with high brightness LED package and Unique pattern acrylic de-glaring diffuser sheet for glare-free uniform light distribution suitable for armstrong / grid ceiling.



ENDURA SLIM PRO PLUS 1X4

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

White powder coated aluminium extruded frame for better thermal management & CRCA sheet used as a back cover and fixed with aluminium extrusion through SS screws.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Diffuser

Micro structured wave guide (LGP), Opal Polycarbonate diffuser for glare-free, symmetrical light distribution.

Electronic Driver

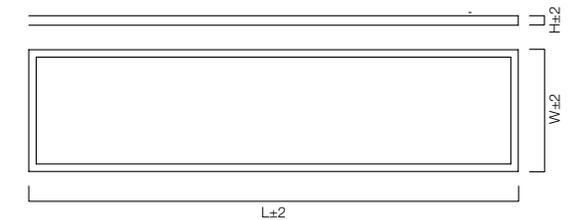
Powered by independent isolated, SELV output Electronic Driver (SMPS based constant current supply) with Short-circuit protection, Over Voltage protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Connector is provided at the back of the fixture for input supply connection.

Mounting

- Suitable for armstrong ceiling
- Provision for open suspension with chain hooks through 4 holes (nos.) of $\varnothing 6$ mm provided behind the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
34W	1174	270	15

All dimensions are in mm
Tolerance: ± 2 mm

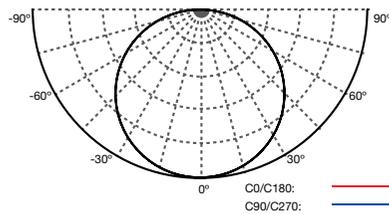
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises



Green LED | 34W | Life 50000hrs | High Efficiency

POLAR PLOT

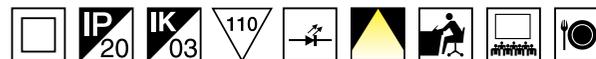


TECHNICAL DATA (Driver to be ordered separately)

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHECDIL6PP1W034	34W	240	≥80	≥0.95	3060	4000K	≥90
LHECDIL7PP1W034	34W	240	≥80	≥0.95	3230	5700K	≥95

Electronic Driver code: LSSCRX1789

IS 15885 (Part 2/Sec 13)



Uniquely designed ultra modern recess mounting luminaires with high brightness LED package as a light source. Suitable for Armstrong ceiling.



SOFTLINE BRILLIANT LED

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

MS powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High quality acrylic opal serrated diffuser for glare-free uniform light distribution.

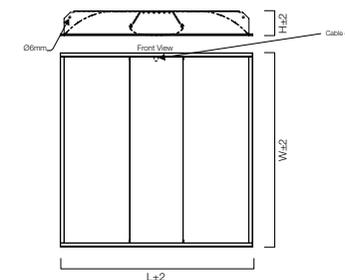
Electronic Driver

Powered by a independent Electronic Driver (SMPS based constant current supply) with lower THD, Output Short Curcuit Protection, Over Voltage Protection and other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable for Armstrong / grid ceiling. Also, provision for open suspension with chain/ hooks through 4 holes (nos.) of $\varnothing 6$ mm provided at the side panel of the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
36W	595	595	80	572x572

All dimensions are in mm
Tolerance: ± 2 mm

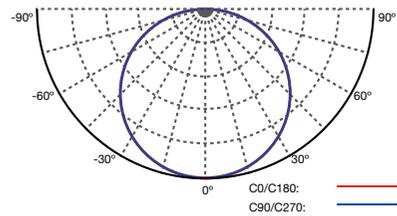
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software centers
- Modern work spaces
- Hospital premises



Green LED | 34W | Life 50000hrs | High Efficiency

POLAR PLOT

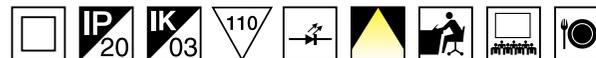


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEBP6UL1W036	34W	240	≥80	≥0.95	3760	4000K	≥110
LHEWEBP7UN1W036	34W	240	≥80	≥0.95	3920	6000K	≥115

Driver code: LSSCRX1789.

IS 15885 (Part 2/Sec 13)



Innovative direct/indirect luminaires suitable for Armstrong/grid ceiling with high brightness LEDs and conical de-glaring prism center panel for efficient down light.



SCOOP

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA white powder coated after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

Unique pattern acrylic de-glaring diffuser sheet for glare-free uniform light distribution in the center.

High quality polycarbonate opal diffuser sheet at the sides for glare-free soft light.

Electronic Driver

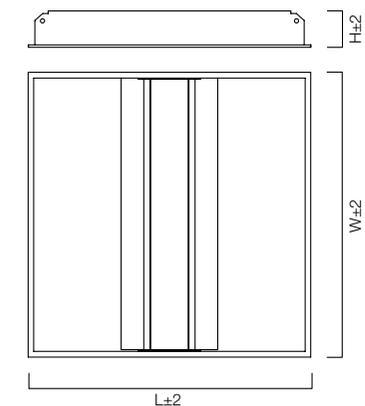
Powered by independent isolated, SELV output Electronic Driver (SMPS based constant current supply) with Short-circuit protection, Over Voltage protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Connector is provided at the back of the fixture for input supply connection.

Mounting

- Suitable for armstrong ceiling
- Provision for open suspension with chain hooks through 4 holes (nos.) of $\varnothing 6$ mm provided behind the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
34W	595	595	76	580x580

All dimensions are in mm
Tolerance: ± 2 mm

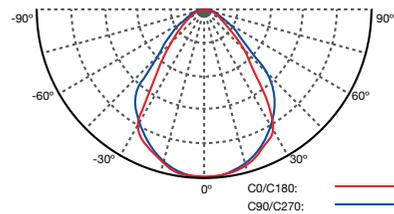
APPLICATIONS

- Conference rooms
- Lobbies
- Hotels
- Jewellery shops
- Offices



Green LED | 34W | Life 50000hrs | High Efficiency

POLAR PLOT

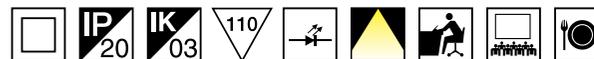


TECHNICAL DATA

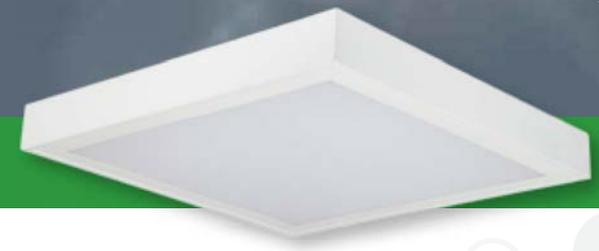
Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEEP6PW1W034	34W	240	≥80	≥0.95	2850	4000K	≥83
LHEWEEP7PW1W034	34W	240	≥80	≥0.95	3000	5700K	≥88

Driver code: LSSCRX2118.

IS 15885 (Part 2/Sec 13)



Aesthetically designed 1x1 LED flat panels for surface mounting which provides soft-light and glare-free symmetrical illumination.



PLUTO SURFACE LED PANEL 1X1

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

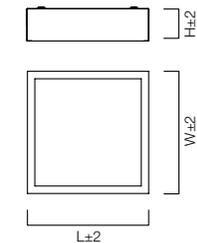
Electronic Driver

Powered by built-in Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Provision for surface mounting through 4 holes (nos.) of $\text{Ø}5$ mm provided at the back of the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
15W	295	295	70
15W	295	295	70

All dimensions are in mm
Tolerance: ± 2 mm

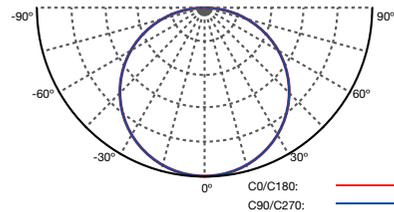
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software development centers
- Hospital premises



Green **LED** | **15W** | Life **50000hrs** | **High**Efficiency

POLAR PLOT

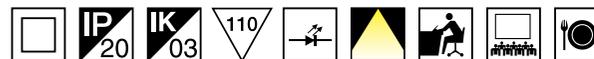


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEIP6PL1W015	15W	240	≥80	≥0.95	1125	4000K	≥75
LHEWEIP7PK1W015	15W	240	≥80	≥0.95	1180	5700K	≥78

Driver code: LSGDEDAFCQA1015.

IS 10322 (Part 5/Sec 1): 2012



Aesthetically designed 2x2 LED flat panels for surface mounting which provides soft-light and glare-free symmetrical illumination.

PLUTO SURFACE LED PANEL 2X2



PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

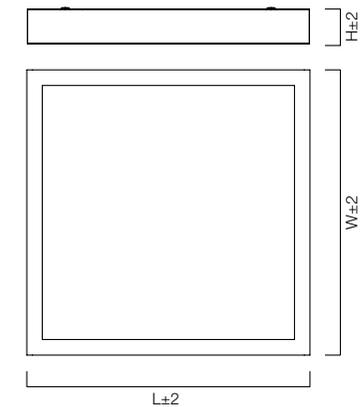
Electronic Driver

Powered by built-in Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Provision for surface mounting through 4 holes (nos.) of $\varnothing 5$ mm provided at the back of the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
34W	595	595	70
42W	595	595	70

All dimensions are in mm
Tolerance: ± 2 mm

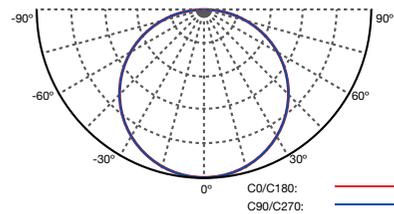
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software development centers
- Hospital premises



Green LED | 34/42W | Life 50000hrs | HighEfficiency

POLAR PLOT

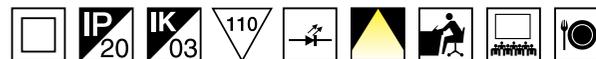


TECHNICAL DATA

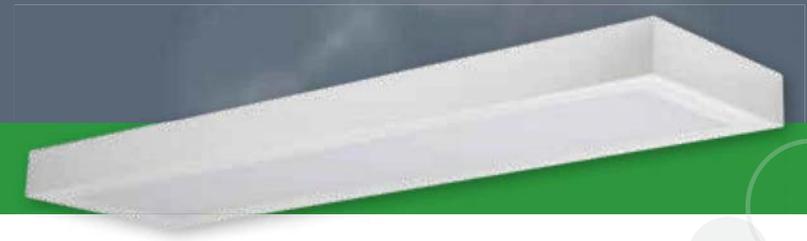
Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEIP6IK1W034	34W	240	≥80	≥0.95	3260	4000K	≥96
LHEWEIP7IW1W034	34W	240	≥80	≥0.95	3450	5700K	≥100
LHEWEIP6PN1W042	42W	240	≥80	≥0.95	3800	4000K	≥90
LHEWEIP7PN1W042	42W	240	≥80	≥0.95	4000	5700K	≥95

Driver code: LSCELDO00160 for 34W, LHGDVDDFCQAL040 for 42W,

IS 10322 (Part 5/Sec 1): 2012



Aesthetically designed 4x1 LED flat panel for surface mounting which provides soft-light and glare-free symmetrical illumination.



PLUTO SURFACE LED PANEL 4X1

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

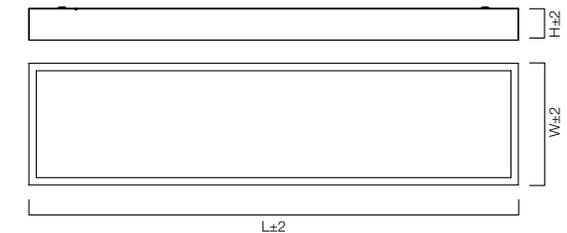
Electronic Driver

Powered by built-in Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Provision for surface mounting through 4 holes (nos.) of $\varnothing 5$ mm provided at the back of the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
34W	1195	295	70
42W	1195	295	70

All dimensions are in mm
Tolerance: ± 2 mm

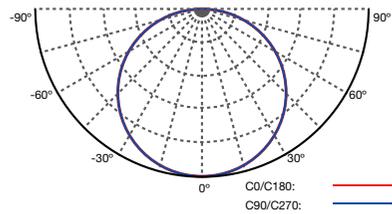
APPLICATIONS

- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Software development centers
- Hospital premises



Green LED | 34/42W | Life 50000hrs | HighEfficiency

POLAR PLOT

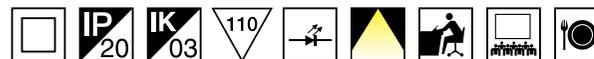


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEIP6PK1W034	34W	240	≥80	≥0.95	3240	4000K	≥95
LHEWEIP7IK1W034	34W	240	≥80	≥0.95	3410	5700K	≥100
LHEWEIP6IN1W042	42W	240	≥80	≥0.95	3800	4000K	≥90
LHEWEIP7IN1W042	42W	240	≥80	≥0.95	4000	5700K	≥95

Driver code: LSCELDO00160 for 34W, LHGDVDDFCQAL040 for 42W.

IS 10322 (Part 5/Sec 1): 2012





Downlighters



Ultra bright compact 5W LED Downlighters with high efficacy LEDs, ideally suited for low ceiling areas to give glare-free light (IP44 from front only).



ORBIT

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

White powder coated, elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation & white finish ABS ring for holding the diffuser.

Light source

High efficiency long life SMD LED mounted on MCPCB with high LED efficacy of ≥ 140 lm/W used to enhance the lumen output.

Optics

High quality polycarbonate frosted diffuser for glare-free uniform light distribution.

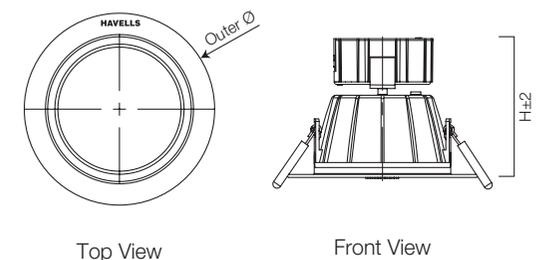
Electronic driver

Powered by an integral electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety testss as per IS 15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided. For details refer installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size
5W	114	83	95

All dimensions are in mm
Tolerance: ± 2 mm

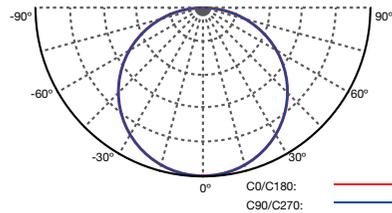
APPLICATIONS

- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 5W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBLAP5PZ1W005	5W	240	≥80	≥0.90	370	3000K	≥74
LHEBLAP6PZ1W005	5W	240	≥80	≥0.90	380	4000K	≥76
LHEBLAP7PZ1W005	5W	240	≥80	≥0.90	400	5700K	≥80

Driver code: LSCELDO00065.

IS 15885 (Part 2/Sec 13)



Recess mounted pressure die-cast aluminium luminaires in powder coated white finish with drop down PC diffuser with optimized heat sink for efficient heat dissipation and independent electronic driver.



RISE

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

White powder coated, elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation & white finish ABS ring for holding the diffuser.

Light source

High efficiency long life SMD LED mounted on MCPCB with high LED efficacy of ≥ 140 lm/W used to enhance the lumen output.

Optics

Diffused drop down diffuser for wide and glare-free symmetrical light distribution.

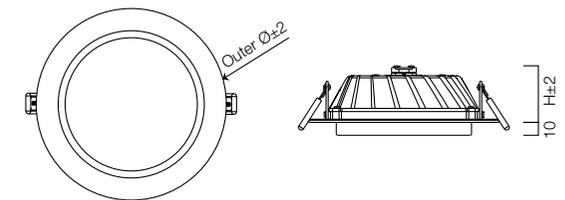
Electronic driver

Powered by an independent, isolated, SELV output electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety testss as per IS 15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided. For details refer installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size
15W	177	55	155

All dimensions are in mm
Tolerance: ± 2 mm

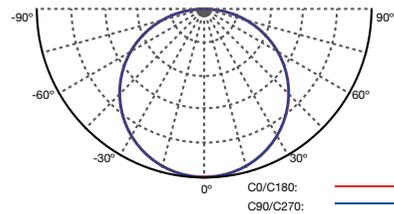
APPLICATIONS

- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 15W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBMIP5PZ1W015	15W	240	≥80	≥0.95	1020	3000K	≥65
LHEBMIP6PZ1W015	15W	240	≥80	≥0.95	1080	4000K	≥70
LHEBMIP7PZ1W015	15W	240	≥80	≥0.95	1160	5700K	≥75

Driver code: LHGDADAFCA1015.



Recess mounted Downlighters with pressure die-cast aluminium heat sink & PC diffuser in white powder coated finish with integral electronic low THD (<10%) LED driver.



INTEGRA

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

White powder coated, elegantly designed pressure die-cast aluminium heat sink for efficient dissipation & white finish polycarbonate ring for holding the diffuser.

Light source

High efficiency long life SMD LED mounted on MCPCB with high LED efficacy of ≥ 140 lm/W used to enhance the lumen output.

Reflector

High reflective polycarbonate conical shaped reflector to enhance the lumen output of the fixture.

Optics

High quality polycarbonate opal concave diffuser to enhance the aesthetics of the fixture and to provide glare-free uniform light distribution.

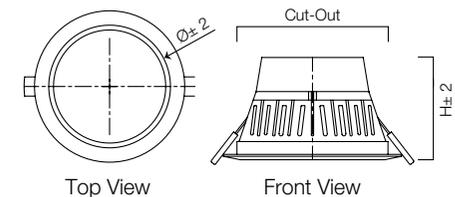
Electronic driver

Powered by integral SMPS based constant current electronic driver with lower THD <10, Output Short Circuit Protection, Surge Voltage Protection and other safety testss as per IS 15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by 2 nos. SS springs/ clips.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size
10W	111	90	90
12W	158	90	138
15W	158	90	138
24W	197	90	175

All dimensions are in mm
Tolerance: ± 2 mm

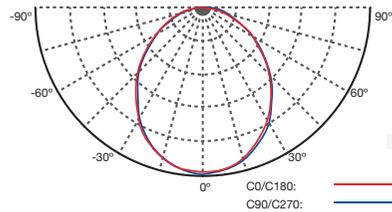
APPLICATIONS

- Residences
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 10/12/15/24W | Life 50000hrs | High Efficiency

POLAR PLOT

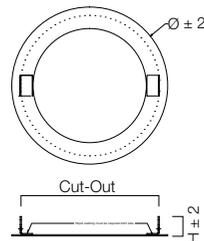


Accessories - Ring

CRCA powder coated rings to suit ceiling cut out to replace conventional luminaires with LED range with SS spring clips.

Ordering Code	Compatible with	ØxH (in mm)	Cutout Size (in mm)
LSCFEFLOX100	10W	190 x 23.5	170
LSCFEFLOX101	12W	190 x 23.5	170
LSCFEFLOX101	15W	190 x 23.5	170
LSCFEFLOX103	24W	240 x 23.5	220
LSCFEFLOX102	15W	240 x 23.5	220

Dimensional Drawing for Ring



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBGTP5PZ1W010	10W	240	≥80	≥0.95	900	3000K	≥90
LHEBGTP6PZ1W010	10W	240	≥80	≥0.95	940	4000K	≥94
LHEBGTP7PZ1W010	10W	240	≥80	≥0.95	980	5700K	≥98
LHEBJNP6PZ1W012	12W	240	≥80	≥0.95	1130	4000K	≥94
LHEBJNP7PZ1W012	12W	240	≥80	≥0.95	1175	5700K	≥97
LHEBGTP5PZ1W015	15W	240	≥80	≥0.95	1280	3000K	≥85
LHEBGTP6PZ1W015	15W	240	≥80	≥0.95	1350	4000K	≥90
LHEBGTP7PZ1W015	15W	240	≥80	≥0.95	1425	5700K	≥95
LHEBGTP5PZ1W024	24W	240	≥80	≥0.95	2160	3000K	≥90
LHEBGTP6PZ1W024	24W	240	≥80	≥0.95	2280	4000K	≥95
LHEBGTP7PZ1W024	24W	240	≥80	≥0.95	2400	5700K	≥100

Driver code : LSSCRX2090 for 10W, LSSCRX2026 for 12/15W, LSSLNX0213 for 24W



Recess mounted pressure die-cast aluminium luminaires in powder coated white finish in round profile with optimized heat sink for efficient heat dissipation and independent electronic LED driver.



ENDURA DL NEO 7/10

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed pressure die-cast aluminium housing & ring for efficient heat dissipation is white powder coated after phosphochromate treatment.

Light Source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W to enhance the lumen output.

Reflector

The conical shape of the housing in white finish act as reflector.

Optics

High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution.

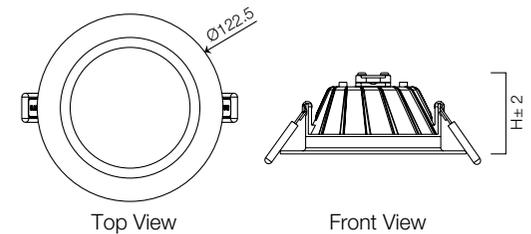
Electronic driver

Powered by an independent electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided as per installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
7W	123	53	100
10W	123	53	100

All dimensions are in mm
Tolerance: ± 2 mm

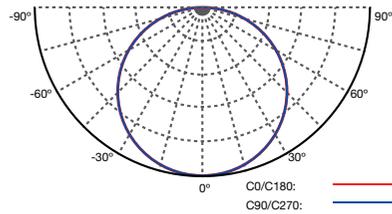
APPLICATIONS

- Shopping malls
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 7/10W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBJNP5PZ1W007	7W	240	≥80	≥0.95	505	3000K	≥72
LHEBJNP6PZ1W007	7W	240	≥80	≥0.95	525	4000K	≥75
LHEBJNP7PZ1W007	7W	240	≥80	≥0.95	560	5700K	≥80
LHEBJNP6PZ1W010	10W	240	≥80	≥0.95	760	4000K	≥76
LHEBJSP6PZ1W010	10W	240	≥80	≥0.95	800	4000K	≥80
LHEBJNP7PZ1W010	10W	240	≥80	≥0.95	850	5700K	≥85

Driver code: LHGDADBFHRA1007 for 7W, LSSCRX1397 for 10W.

IS 15885 (Part 2/Sec 13)



Recess mounted pressure die-cast aluminium luminaires in powder coated white finish in round profile with optimized heat sink for efficient heat dissipation and separate replaceable electronic driver.



ENDURA DL NEO 12/15/18

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed pressure die-cast aluminium housing & ring for efficient heat dissipation is white powder coated after phosphochromate treatment.

Light Source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W to enhance the lumen output.

Reflector

The conical shape of the housing in white finish act as reflector.

Optics

High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution.

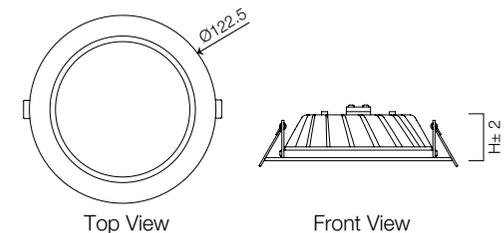
Electronic driver

Powered by an independent, isolated, SELV output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge Voltage protection & other safety tests as per IS:15885 Part 2/ Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs clips provided as per installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
12W	177	45	155
15W	177	45	155
18W	177	45	155

All dimensions are in mm
Tolerance: ± 2 mm

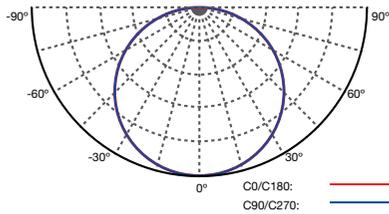
APPLICATIONS

- Shopping malls
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 12/15/18W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEJNP5CPZ1W012	12W	240	≥80	≥0.95	960	3000K	≥80
LHEJNP6CPZ1W012	12W	240	≥80	≥0.95	1020	4000K	≥85
LHEJNP7CPZ1W012	12W	240	≥80	≥0.95	1080	5700K	≥90
LHEBJNP5IN1W015	15W	240	≥80	≥0.95	1350	3000K	≥90
LHEBJNP6IN1W015	15W	240	≥80	≥0.95	1425	4000K	≥95
LHEBJNP7IN1W015	15W	240	≥80	≥0.95	1470	5700K	≥98
LHEBJNP6QZ1W015 (1-10V)	15W	240	≥80	≥0.90	1425	4000K	≥95
LHEBJNP7QN1W015 (1-10V)	15W	240	≥80	≥0.90	1470	5700K	≥98
LHEBJNP6JZ1W015 (Dali)	15W	240	≥80	≥0.90	1425	4000K	≥95
LHEBJNP7NZ1W015 (Dali)	15W	240	≥80	≥0.90	1470	5700K	≥98
LHEBJNP5PV1W018	18W	240	≥80	≥0.95	1620	3000K	≥90
LHEBJNP6PV1W018	18W	240	≥80	≥0.95	1710	4000K	≥95
LHEBJNP7PV1W018	18W	240	≥80	≥0.95	1800	5700K	≥100

IS 15885 (Part 2/Sec 13)



Electronic driver code: LHGSDSCFHQAL012 for 12W, LHGDADAFCA1015 for 15W, LSSCRX1908 for 18W.

Recess mounted LED Downlighters elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation and independent electronic LED driver.



ENDURA DL NEO 21/25W

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

Elegantly designed pressure die-cast aluminium housing for efficient heat dissipation is white powder coated after phosphochromate treatment.

Light Source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W to enhance the lumen output.

Reflector

The conical shape of the housing in white finish act as reflector.

Optics

High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution.

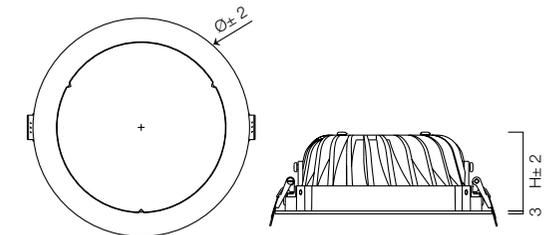
Electronic driver

Powered by an independent, isolated, SELV output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge Voltage protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs clips provided as per installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
21W	188	68	180
25W	188	68	180

All dimensions are in mm
Tolerance: ± 2 mm

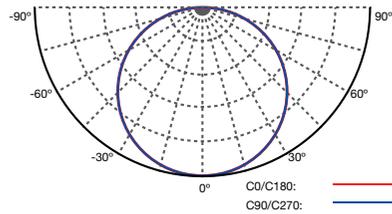
APPLICATIONS

- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 21/25W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBJNP6IZ1W021	21W	240	≥80	≥0.95	1680	4000K	≥80
LHEBJNP7IZ1W021	21W	240	≥80	≥0.95	1800	5700K	≥85
LHEBJNP6QZ1W021 (1-10V)	21W	240	≥80	≥0.90	1680	4000K	≥80
LHEBJNP7QZ1W021 (1-10V)	21W	240	≥80	≥0.90	1800	5700K	≥85
LHEBJNP6JZ1W021 (Dali)	21W	240	≥80	≥0.90	1680	4000K	≥80
LHEBJNP7JZ1W021 (Dali)	21W	240	≥80	≥0.90	1800	5700K	≥85
LHEBJNP6IZ1W025	25W	240	≥80	≥0.95	2280	4000K	≥90
LHEBJNP7IZ1W025	25W	240	≥80	≥0.95	2400	5700K	≥95
LHEBJNP6QZ1W025 (1-10V)	25W	240	≥80	≥0.90	2280	4000K	≥90
LHEBJNP7QN1W025 (1-10V)	25W	240	≥80	≥0.90	2400	5700K	≥95
LHEBJNP6JZ1W025 (Dali)	25W	240	≥80	≥0.90	2280	4000K	≥90
LHEBJNP7JZ1W025 (Dali)	25W	240	≥80	≥0.90	2400	5700K	≥95

Electronic driver code: LSSCRX1837 for 21W, LSSCRX1837 for 25W

IS 15885 (Part 2/Sec 13)



Deep recessed antiglare LED downlight for general and accent lighting. The premium white reflector matches the ceiling and accentuates the architecture of the area without compromising the light output.

ARDOR



PRODUCT SPECIFICATIONS

Features & Benefits

- Best In Class LED with high lumen package
- Highly efficient heat chamber
- Superior quality white reflector technology
- Deep Recessed LED downlight
- Ideal for glare control with high lumen output
- Available in 25W and 35W
- No UV & IR radiations
- Environment-friendly as it does not contain mercury
- Operating Voltage range: 140-270V
- Operating temperature: -10°C to +45°C
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

White powder coated, elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation & white finish ABS ring for holding the diffuser.

Light source

High efficiency long life SMD LED mounted on MCPCB with high LED efficacy of ≥ 140 lm/W used to enhance the lumen output.

Optics

High quality polycarbonate diffuser alongwith white reflector for glare-free uniform light distribution.

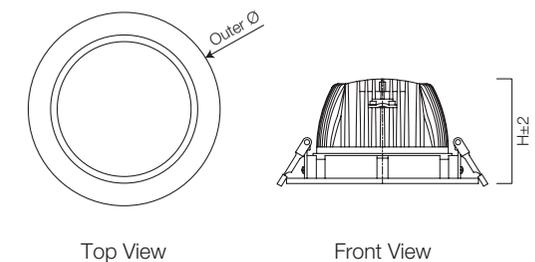
Electronic driver

Powered by an integral electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety testss as per IS 15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided. For details refer installation instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
24W	185	90	180
35W	219	98	210

All dimensions are in mm
Tolerance: ± 2 mm

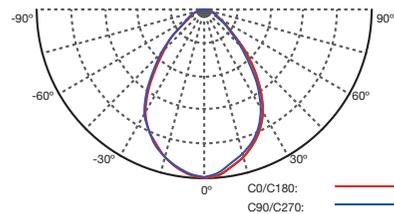
APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 24/35W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY DETAIL GIVEN BELLOW)

Ordering Code	System Power	Voltage (V)	CRI	Beam Angle	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBGTP5IZ1W024	24W	240	≥80	100°	≥0.95	2160	3000K	≥90
LHEBGTP6IZ1W024	24W	240	≥80	100°	≥0.95	2280	4000K	≥95
LHEBGTP7IZ1W024	24W	240	≥80	100°	≥0.95	2400	6000K	≥100
LHEBGTP5IZ1W035	35W	240	≥80	100°	≥0.95	3150	3000K	≥90
LHEBGTP6IZ1W035	35W	240	≥80	100°	≥0.95	3325	4000K	≥95
LHEBGTP7IZ1W035	35W	240	≥80	100°	≥0.95	3500	6000K	≥100

Driver code: LSSCRX1837 for 24W, LSSCRX1789 for 35W

IS 15885 (Part 2/Sec 13)



Havells Endura HO is a range of LED downlights designed to replace CFL luminaire solutions. With its IP44 rating, the range is perfect for corridors, WCs, high public circulation areas and reception areas.

ENDURA HO



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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing & Finish

Elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation is white powder coated after phosphochromate treatment.

Light Source

High efficiency long life SMD LED module is mounted on MCPCB and lumen efficacy of ≥ 140 lm/W to enhance the lumen output.

Reflector

Mirror finish anodized reflector with facets for uniform light distribution.

Optics

Polycarbonate, UV stabilized diffuser in opal finish for glare-free uniform light distribution.

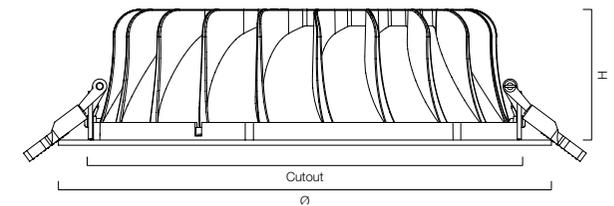
Electronic driver

Powered by an independent electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability tests as per IS:15885 Part 2/ Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided as per instructions.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
12W	165	45	145
15W	195	55	175
21W	220	60	205
25W	240	65	225

All dimensions are in mm
Tolerance: ± 2 mm

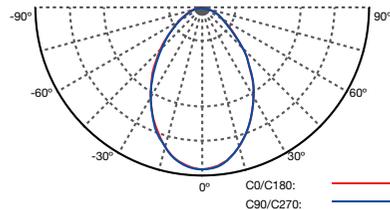
APPLICATIONS

- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 12/15/21/25W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEAAGP5PL4W012	12W	240	≥80	≥0.95	1200	3000K	≥100
LHEAAGP6PL4W012	12W	240	≥80	≥0.95	1224	4000K	≥100
LHEAAGP7PL4W012	12W	240	≥80	≥0.95	1260	5700K	≥105
LHEAAGP5PL4W015	15W	240	≥80	≥0.95	1500	3000K	≥100
LHEAAGP6PL4W015	15W	240	≥80	≥0.95	1530	4000K	≥100
LHEAAGP7PL4W015	15W	240	≥80	≥0.95	1575	5700K	≥105
LHEAAGP5PL4W021	21W	240	≥80	≥0.95	2100	3000K	≥100
LHEAAGP6PL4W021	21W	240	≥80	≥0.95	2142	4000K	≥100
LHEAAGP7PL4W021	21W	240	≥80	≥0.95	2205	5700K	≥105
LHEAAGP5PL4W025	25W	240	≥80	≥0.95	2500	3000K	≥100
LHEAAGP6PL4W025	25W	240	≥80	≥0.95	2550	4000K	≥100
LHEAAGP7PL4W025	25W	240	≥80	≥0.95	2625	5700K	≥105

IS 15885 (Part 2/Sec 13)



New generation, Environment-friendly, ultra bright aesthetically design compact Downlighters for recess mounting with high brightness LEDs, ideally suitable for low ceiling areas for glare-free lighting.



MAESTRO LED ROUND 15W

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Elegantly designed pressure die-cast aluminium alloy housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistant and epoxy powder coated silver metallic finish after phosphochromate treatment and PC ring in white finish.

Light Source

High efficiency long life LED package in modules with lumen efficacy of ≥ 140 lm/W with beam angle 120° to ensure better uniformity of light distribution.

Optics

Reflector made up of white polycarbonate is used to enhance the efficacy of the fixture and uniform symmetrical light distribution.

Cover/Diffuser

PC diffuser in opal finish for glare-free uniform symmetrical light distribution.

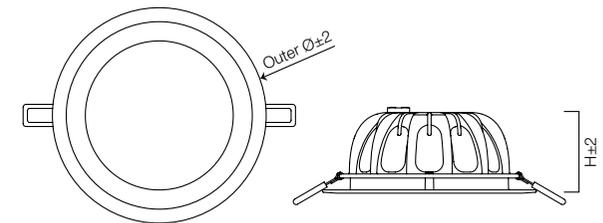
Electronic driver

Powered by an independent, isolated, SELV output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge Voltage protection & other safety tests as per IS:15885 Part 2/ Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
15W	185	75	170

All dimensions are in mm
Tolerance: ± 2 mm

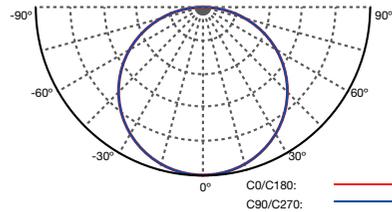
APPLICATIONS

- Shopping malls
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 15W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBJSP5PZ1S015	15W	240	≥80	≥0.95	1200	3000K	≥80
LHEWDSP6PL1W015	15W	240	≥80	≥0.95	1200	4000K	≥80
LHEWDSP7PL1W015	15W	240	≥80	≥0.95	1275	5700K	≥85

Driver code: LHGDADAFCA1015.

IS 15885 (Part 2/Sec 13)



Recess mounted LED Downlighters elegantly designed pressure die-cast Al. heat sink for efficient heat dissipation and separate replaceable electronic driver.

MAESTRO SQUARE



PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Elegantly designed pressure die-cast aluminium alloy housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistant and epoxy powder coated silver mettalic finish after phosphochromate treatment and PC ring in white finish.

Light Source

High efficiency long life LED package in modules with lumen efficacy of ≥ 140 lm/W with beam angle 120° to ensure better uniformity of light distribution.

Optics

Reflector made up of white polycarbonate is used to enhance the efficacy of the fixture and uniform symmetrical light distribution.

Cover/Diffuser

PC diffuser in opal finish for glare-free uniform symmetrical light distribution.

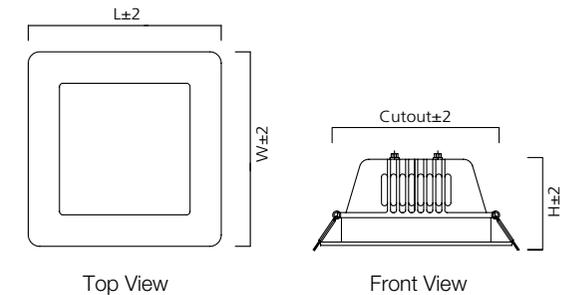
Electronic driver

Powered by an independent, isolated, SELV output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge Voltage protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided.

TECHNICAL DRAWING



System Power	LxWxH (in mm)	Cutout Size (Ø)
15W	172x172x72	155x155

All dimensions are in mm
Tolerance: ± 2 mm

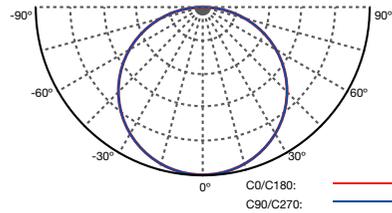
APPLICATIONS

- Shopping malls
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 15W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBJSP5IZ1S015	15W	240	≥80	≥0.95	1200	3000K	≥80
LHEBJSP6PZ1S015	15W	240	≥80	≥0.95	1200	4000K	≥80
LHEBJSP7PZ1S015	15W	240	≥80	≥0.95	1275	5700K	≥85

Driver code: LHGDADAFCA1015.

IS 15885 (Part 2/Sec 13)



The Edgepro range of Slim-Fit low profile downlights are engineered to deliver superior light output and uniformity utilising the latest edge-lit LED technology. At only 25mm deep including bracket, they are an ideal solution where ceiling voids are limited but high lumen output is required



EDGEPRO ROUND

PRODUCT SPECIFICATIONS

Features & Benefits

- Ideally suitable for office lighting, showrooms, high-end residences
- Energy efficient and low heat dissipation.
- Quick installation, easy to install.
- No UV & IR.
- Working temperature -10°C to 45°C
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 35000 hours

Housing & Finish

Round aluminium Powder coated white with Pressure Die cast housing.

Light source

High efficiency long life LED package with efficacy of ≥ 100 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

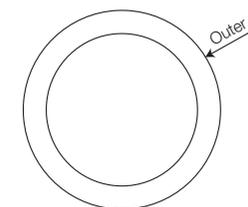
Electronic driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable for recessed mounting with Grid & POP ceiling.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
6W	120	25	105
12W	172	25	160
15W	190	25	180
18W	225	25	210

All dimensions are in mm
Tolerance: ± 2 mm

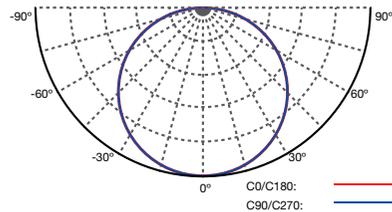
APPLICATIONS

- Residences
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 6/12/15/18W | Life 35000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEKP6PL1W006	6W	240	≥80	≥0.90	≥570	4000k	≥95
LHEWEKP7PL1W006	6W	240	≥80	≥0.90	≥600	5700K	≥100
LHEWEKP6PL1W012	12W	240	≥80	≥0.90	≥1140	4000k	≥95
LHEWEKP7PL1W012	12W	240	≥80	≥0.90	≥1200	5700K	≥100
LHEWEKP6PL1W015	15W	240	≥80	≥0.90	≥1425	4000k	≥95
LHEWEKP7PL1W015	15W	240	≥80	≥0.90	≥1500	5700K	≥100
LHEWEKP6PL1W018	18W	240	≥80	≥0.90	≥1710	4000k	≥95
LHEWEKP7PL1W018	18W	240	≥80	≥0.90	≥1800	5700K	≥100

IS 15885 (Part 2/Sec 13)



The Edgepro range of Slim-Fit low profile downlights are engineered to deliver superior light output and uniformity utilising the latest edge-lit LED technology. At only 25mm deep including bracket, they are an ideal solution where ceiling voids are limited but high lumen output is required



EDGEPRO SQUARE

PRODUCT SPECIFICATIONS

Features & Benefits

- Ideally suitable for office lighting, showrooms, high-end residences
- Energy efficient and low heat dissipation.
- Quick installation, easy to install.
- No UV & IR.
- Working temperature -10°C to 45°C
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 35000 hours

Housing & Finish

Square aluminium Powder coated white with Pressure Die cast housing.

Light source

High efficiency long life LED package with efficacy of ≥ 100 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

High transmittance polystyrene opal diffuser for glare-free symmetric light distribution.

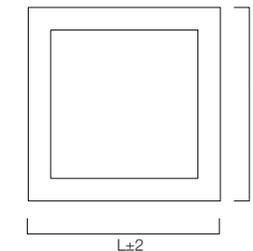
Electronic driver

Powered by an independent Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other reliability tests as per IS:15885 Part 2/Sec 13.

Mounting

Suitable for recessed mounting with Grid & POP ceiling.

TECHNICAL DRAWING



System Power	Dimension (LxW)	Height (H)	Cutout Size (LxW)
6W	120x120	25	105x105
12W	172x172	25	160x160
15W	190x190	25	180x180
18W	225x225	25	210x210

All dimensions are in mm
Tolerance: ± 2 mm

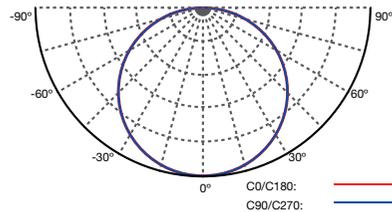
APPLICATIONS

- Residences
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 6/12/15/18W | Life 35000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWELP6PL1W006	6W	240	≥80	≥0.90	≥570	4000k	≥95
LHEWELP7PL1W006	6W	240	≥80	≥0.90	≥600	5700K	≥100
LHEWELP6PL1W012	12W	240	≥80	≥0.90	≥1140	4000k	≥95
LHEWELP7PL1W012	12W	240	≥80	≥0.90	≥1200	5700K	≥100
LHEWELP6PL1W015	15W	240	≥80	≥0.90	≥1425	4000k	≥95
LHEWELP7PL1W015	15W	240	≥80	≥0.90	≥1500	5700K	≥100
LHEWELP6PL1W018	18W	240	≥80	≥0.90	≥1710	4000k	≥95
LHEWELP7PL1W018	18W	240	≥80	≥0.90	≥1800	5700K	≥100

IS 15885 (Part 2/Sec 13)



A minimalistic & versatile lighting source that offers a wide range of application with different aperture for same lamp unit. The lamp is deep recessed into the fixture to provide a glare-free solution.



SPIRIT

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

White powder coated, elegantly designed pressure die-cast aluminium heat sink for efficient heat dissipation with magnetic aperture attachments.

Light source

High efficiency long life COB LED used to enhance the lumen output.

Optics

Various apertures like NARROW, OVAL, D, SYMMETRIC and ASYMMETRIC apertures.

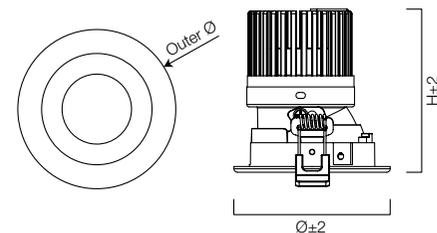
Electronic driver

Powered by an integral electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety testss as per IS 15885 Part 2/Sec 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided. For details refer installation instructions.

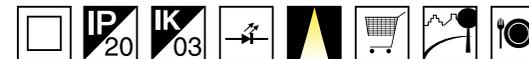
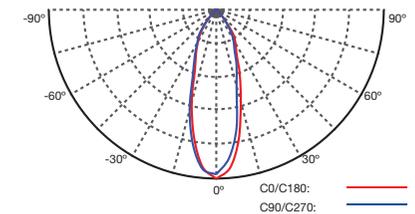
TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
10W	85	85	80
15W	105	85	100

All dimensions are in mm
Tolerance: ± 2 mm

POLAR PLOT



APPLICATIONS

- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 10/15W | Life 50000hrs | High Efficiency

ACCESSORIES

Ordering Code	Description
LSSLOW0166	Spirit 85 10W Attachment RD -D
LSSLOW0167	Spirit 85 10W Attachment RD -Oval
LSSLOW0168	Spirit 85 10W Attachment RD -O
LSSLOW0169	Spirit 85 10W Attachment RD - Sym
LSSLOW0170	Spirit 85 10W Attachment RD - Asym
LSSLOW0171	Spirit 85 10W Attachment SD -O
LSSLOW0172	Spirit 105 15W Attachment RD -D
LSSLOW0173	Spirit 105 15W Attachment RD -Oval
LSSLOW0174	Spirit 105 15W Attachment RD -O
LSSLOW0175	Spirit 105 15W Attachment RD - Sym
LSSLOW0176	Spirit 105 15W Attachment RD - Asym
LSSLOW0177	Spirit 105 15W Attachment SQ -O

TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY DETAIL GIVEN BELLOW)

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBFMPBIB1W010	10W	240	≥80	≥0.95	800	2700K	≥80
LHEBFMPDIB1W010	10W	240	≥80	≥0.95	800	4000K	≥80
LHEBFMPBIH1W010	10W	240	≥80	≥0.95	800	2700K	≥80
LHEBFMPDIH1W010	10W	240	≥80	≥0.95	800	4000K	≥80
LHEBFMPBIG1W015	15W	240	≥80	≥0.95	800	2700K	≥80
LHEBFMPDIG1W015	15W	240	≥80	≥0.95	800	4000K	≥80
LHEBFMPBIH1W015	15W	240	≥80	≥0.95	800	2700K	≥80
LHEBFMPDIH1W015	15W	240	≥80	≥0.95	800	4000K	≥80

Driver code : LSSCRX1802 for 10W and LSSCRX1948 for 15W.



Attachment RD-D



Attachment RD-Oval



Attachment RD-O



Attachment RD-ASYM



Attachment RD-SYM



Attachment SQ-O

Recess mounted fixed LED downlight made of extruded Aluminium housing and high power LED as a light source with clear diffuser and separate electronic driver.



SPARKLE PRO FIXED

PRODUCT SPECIFICATIONS

Features & Benefits

- High efficiency fixed spotlight
- Available in narrow and wide beam angles
- Available in various wattages 8/12/20/30/45W
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing & Finish

Pressure die-cast aluminium heat sink for efficient heat dissipation with white finish polycarbonate ring for holding diffuser

Light Source

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

Optics

High purity anodized glossy stepped type aluminium reflector to enhance the lumen output of the fixture.

Diffuser

High quality polycarbonate clear diffuser to enhance the aesthetics of the fixture and to provide glare-free uniform light distribution.

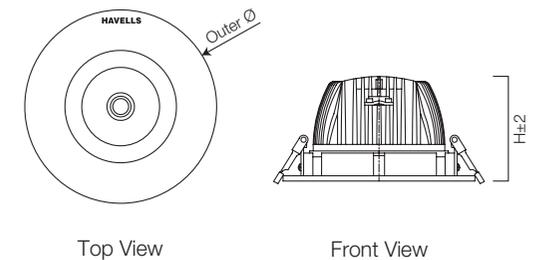
Electronic driver

Powered by an Independent isolated electronic driver in ABS housing with Output Short Circuit protection, Over Voltage protection, Surge Voltage protection and other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixed into false ceiling with 2 nos MS black coloured spring clamps provided with the fixture.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
8W	90	60	80
12W	120	65	105
20W	150	75	130
30W	200	95	185
45W	230	110	215

All dimensions are in mm
Tolerance: ± 2 mm

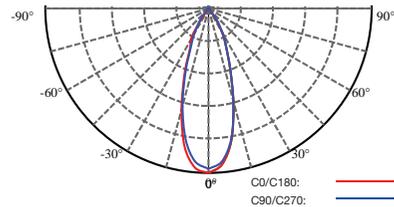
APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 8/12/20/30/45W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY DETAIL GIVEN BELLOW)

Ordering Code	System Power	Voltage (V)	CRI	Beam Angle	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBLUPBIH1W008	8W	240	≥80	40°	≥0.95	720	3000k	≥90
LHEBLUPDIH1W008	8W	240	≥80	40°	≥0.95	760	4000k	≥95
LHEBLUPFIH1W008	8W	240	≥80	40°	≥0.95	800	6000k	≥100
LHEBLUPBII1W012	12W	240	≥80	40°	≥0.95	1080	3000k	≥90
LHEBLUPDII1W012	12W	240	≥80	40°	≥0.95	1140	4000k	≥95
LHEBLUPFII1W012	12W	240	≥80	40°	≥0.95	1200	6000k	≥100
LHEBLUPBIN1W020	20W	240	≥80	40°	≥0.95	2000	3000k	≥100
LHEBLUPDIN1W020	20W	240	≥80	40°	≥0.95	2100	4000k	≥105
LHEBLUPFIN1W020	20W	240	≥80	40°	≥0.95	2200	6000k	≥110
LHEBLUPBIN1W030	30W	240	≥80	40°	≥0.95	3000	3000k	≥100
LHEBLUPDIN1W030	30W	240	≥80	40°	≥0.95	3100	4000k	≥105
LHEBLUPFIN1W030	30W	240	≥80	40°	≥0.95	3300	6000k	≥110
LHEBLUPBIE1W045	45W	240	≥80	60°	≥0.95	4275	3000k	≥95
LHEBLUPDIE1W045	45W	240	≥80	60°	≥0.95	4500	4000k	≥100
LHEBLUPFIE1W045	45W	240	≥80	60°	≥0.95	4725	6000k	≥105

IS 15885 (Part 2/Sec 13)



Driver code :

1. LSSCRX1252 for 8W
2. LSSCRX1397 for 12W,
3. LSSCRX1837 for 20W
4. LSSCRX2118 for 30W
5. LSSCRX1791 for 45W.

Recess mounted adjustable LED downlights made of extruded Aluminium housing and high power LED as a light source with clear diffuser and separate electronic driver.



SPARKLE PRO ADJUSTABLE

PRODUCT SPECIFICATIONS

Features & Benefits

- High efficiency adjustable spotlight
- Available in narrow and wide beam angles
- Available in various wattages 8/12/20/30W
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Pressure die-cast aluminium heat sink for efficient heat dissipation with white finish polycarbonate ring for holding diffuser

Light Source

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

Optics

High purity anodized glossy stepped type aluminium reflector to enhance the lumen output of the fixture.

Diffuser

High quality polycarbonate clear diffuser to enhance the aesthetics of the fixture and to provide glare-free uniform light distribution.

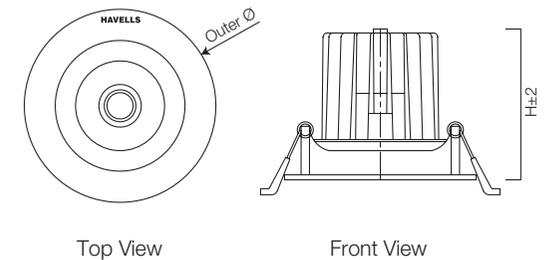
Electronic driver

Powered by an independent isolated electronic driver in ABS housing with Output Short Circuit protection, Over Voltage protection, Surge Voltage protection and other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixed into false ceiling with 2 nos MS black coloured spring clamps provided with the fixture.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
8W	80	55	75
12W	95	70	85
20W	125	90	120
30W	160	98	150

All dimensions are in mm
Tolerance: ± 2 mm

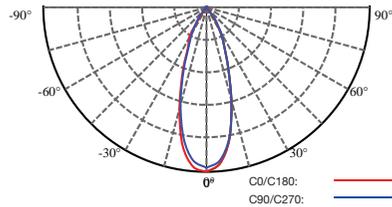
APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 8/12/20/30W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY DETAIL GIVEN BELLOW)

Ordering Code	System Power	Voltage (V)	CRI	Beam Angle	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBMKPBIH1W008	8W	240	≥80	40°	≥0.95	720	3000k	≥90
LHEBMKPDIH1W008	8W	240	≥80	40°	≥0.95	760	4000k	≥95
LHEBMKPFIH1W008	8W	240	≥80	40°	≥0.95	800	6000k	≥100
LHEBMKPBIH1W012	12W	240	≥80	40°	≥0.95	1080	3000k	≥90
LHEBMKPDIH1W012	12W	240	≥80	40°	≥0.95	1140	4000k	≥95
LHEBMKPFIH1W012	12W	240	≥80	40°	≥0.95	1200	6000k	≥100
LHEBMKPBIH1W020	20W	240	≥80	40°	≥0.95	2000	3000k	≥100
LHEBMKPDIH1W020	20W	240	≥80	40°	≥0.95	2100	4000k	≥105
LHEBMKPFIH1W020	20W	240	≥80	40°	≥0.95	2200	6000k	≥110
LHEBMKPBIH1W030	30W	240	≥80	40°	≥0.95	3000	3000k	≥100
LHEBMKPDIH1W030	30W	240	≥80	40°	≥0.95	3100	4000k	≥105
LHEBMKPFIH1W030	30W	240	≥80	40°	≥0.95	3300	6000k	≥110

IS 15885 (Part 2/Sec 13)



Driver code :

1. LSSCRX1252 for 8W
2. LSSCRX1397 for 12W,
3. LSSCRX1837 for 20W
4. LSSCRX2118 for 30W.

Recess mounted LED wall washers, tilted 70° outwards and swivels 360° to offer best illumination on the wall and retail displays.



SPARKLE PRO SNOOT

PRODUCT SPECIFICATIONS

Features & Benefits

- Adjustable LED directional spotlight with high efficiency light output.
- Low power consumption and ideal for retail application
- Delivers high brightness & excellent illumination on wall and retail displays
- No UV & IR Radiation
- Environment-friendly as it does not contain mercury
- Instant light with low running temperature
- Operating temperature: -10°C to +45°C
- Average life $L_{70B_{50}}$: 50000 hours

Housing

Powder coated white pressure die-cast aluminium housing for efficient thermal management with nickle plated MS bracket for angle adjustment.

Optics

High purity aluminium sputtered stepped type reflector with clear diffuser, 38° beam angle available in 20Watts and 30Watts.

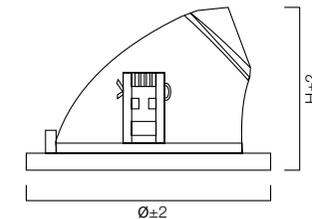
Electronic driver

Powered by a separate electronic driver in ABS housing with THD<20%, Output Short Circuit Protection, Surge Voltage Protection and other reliability tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixed into false ceiling with 2 nos SS springs/clamps provided with the fixture.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)	Cutout Size (Ø)
20W	150	140	140
30W	185	170	175

All dimensions are in mm
Tolerance: ± 2 mm

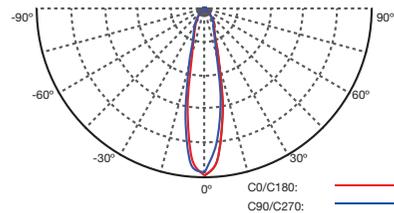
APPLICATIONS

- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges



Green LED | 20/30W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY DETAIL GIVEN BELLOW)

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHESAQPBIN1W020	20W	240	≥80	≥0.95	1800	3000K	≥90
LHESAQPDIN1W020	20W	240	≥80	≥0.95	1900	4000K	≥95
LHESAQPGIN1W020	20W	240	≥80	≥0.95	2000	6000K	≥100
LHESAQPBIN1W030	30W	240	≥80	≥0.95	1800	3000K	≥90
LHESAQPDIN2W030	30W	240	≥80	≥0.95	1900	4000K	≥95
LHESAQPGIN2W030	30W	240	≥80	≥0.95	2000	6000K	≥100

Driver code : LSSCRX1837 for 20W, LHGDODDFCQAL040 for 30W.

IS 15885 (Part 2/Sec 13)



Surface mounted downlight with white powder coated polycarbonate housing and pressure die-cast heat sink having high efficiency.



INTEGRA SURFACE

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing & Finish

Pressure die-cast aluminium heat sink for effective thermal management, sturdiness and excellent corrosion resistant fitted in white finish polycarbonate housing.

Light Source

High efficiency long life SMD LED module is0 mounted on MCPCB with lumen efficacy of ≥ 140 lm/W to enhance the lumen output.

Optics

PC diffuser in opal finish for glare-free uniform light distribution alongwith PC reflector in white finish to enhance the lumen output of the fixture.

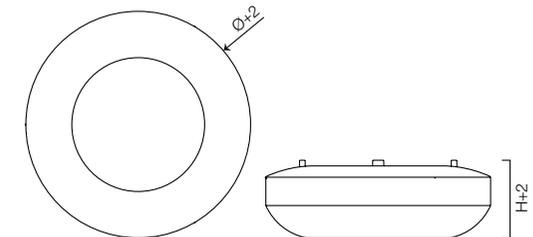
Electronic driver

Powered by an integral electronic driver in PC housing (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection and other safety tests as per IS15885 Part2/Sec13.

Mounting

Back polycarbonate mounting plate is fixed to the wall/ceiling by 2 holes of $\text{Ø}3.5$ mm provided in it at a center distance of 100 mm and then fixture is fit to the mounting plate by rotating in anti-clockwise direction.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)
10W	200	68.5
15W	200	68.5

All dimensions are in mm
Tolerance: ± 2 mm

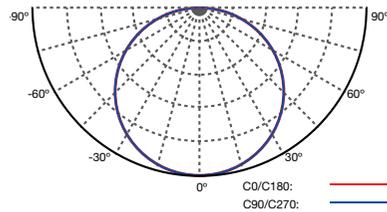
APPLICATIONS

- Corporate offices
- Banks & ATM outlets
- Software development centers
- Modern work spaces
- Showrooms



Green LED | 10/15W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEAAGP5PL1W010	10W	240	≥80	≥0.95	800	3000K	≥80
LHEAAGP6PL1W010	10W	240	≥80	≥0.95	850	4000K	≥85
LHEAAGP7PL1W010	10W	240	≥80	≥0.95	900	5700K	≥90
LHEAAGP5PL1W015	15W	240	≥80	≥0.95	1280	3000K	≥85
LHEAAGP6PL1W015	15W	240	≥80	≥0.95	1350	4000K	≥90
LHEAAGP7PL1W015	15W	240	≥80	≥0.95	1425	5700K	≥95

Driver code : LSSCRX2088 for 10W, LSSCRX2092 for 15W

IS 10322 (Part 5/Sec 1): 2012



Surface mounted LED Downlighters with white powder coated aluminium housing with integrated electronic driver.



ENDURA NEO DL SURFACE

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing & Finish

Spun aluminium housing & spun CRCA sheet steel mounting plate, white powder coated after phosphochromate treatment.

Light Source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Reflector

The circular housing white painted inside also act as reflector.

Optics

High quality methacrylate opal diffuser & CRCA white powder coated outer ring to give glare-free uniform light distribution.

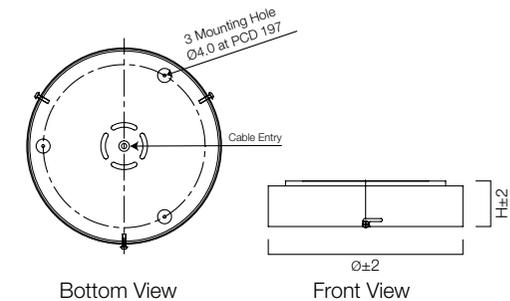
Electronic driver

Powered by an independent isolated, SELV output electronic driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Fixing into ceiling by means of 3 nos. holes provided in the fixture.

TECHNICAL DRAWING



System Power	Dia (Ø)	Height (H)
15W	234	57
21W	234	57

All dimensions are in mm
Tolerance: ± 2 mm

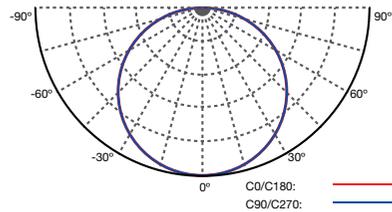
APPLICATIONS

- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices



Green LED | 15/21W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEAAGP6IA2W012	15W	240	≥80	≥0.95	1200	4000K	≥80
LHEAAGP7IA2W012	15W	240	≥80	≥0.95	1275	5700K	≥85
LHEAAGP7IA1W018	21W	240	≥80	≥0.95	1725	5700K	≥82

Driver code: LHGDADAFCA1015 for 15W, LSCELDO0049 for 21W

IS 10322 (Part 5/Sec 1): 2012





Battens



Basic all purpose surface and wall mounted LED batten with polycarbonate housing & integrated electronic driver.



LUMILINE

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70C_{50}}$: 35000 hours

Housing & cover

Made of ultra slim co-extruded polycarbonate channel with housing part in white finish & diffuser part in reeded opal finish.

Light source

High efficiency long life LED with lumen efficacy of 130 lm/W with viewing angle of 120°.

End caps

White finish ABS end caps with decorative circular coloured polycarbonate cap snap fitted on the end cap to enhance the aesthetic of the fixture. These end caps are snap-fitted to the fixture.

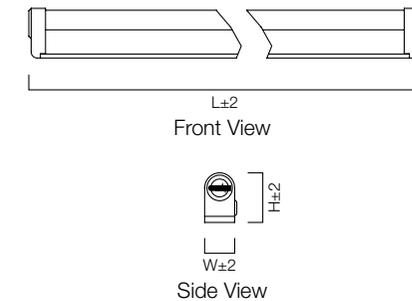
Electronic Driver

Integral electronic driver (SMPS based constant current output) with lower THD, Output short circuit protection/Open circuit protection, Surge Voltage Protection and other Safety tests as per IS15885 Part 2/ Sec 13.

Mounting

Can be fixed directly into the wall/ ceiling by means of mounting SS clips provided with the fixture.

TECHNICAL DRAWING



Wattage	Length (L)	Width (W)	Height (H)
9W	600	25	40
18W	1150	25	40
20W	1150	25	40

All dimensions are in mm
Tolerance: ± 2 mm

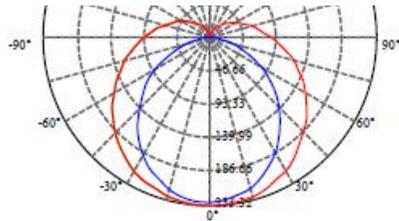
APPLICATIONS

- Residences
- Showrooms
- Cove lighting
- Hospital premises
- Educational institutions
- Corridors



Green LED | 9/18/20W | Life 35000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEXBQP5IN1W009	9W	240	≥80	≥0.95	860	3000K	≥95
LHEXBQP6IN1W009	9W	240	≥80	≥0.95	910	4000K	≥100
LHEXBQP7IN1W009	9W	240	≥80	≥0.95	950	6500K	≥105
LHEXBQP5IN1W018	18W	240	≥80	≥0.95	1625	3000K	≥90
LHEXBQP6IN1W018	18W	240	≥80	≥0.95	1710	4000K	≥95
LHEXBQP7IN1W018	18W	240	≥80	≥0.95	1810	6500K	≥100
LHEXBQP5IN1W020	20W	240	≥80	≥0.95	1805	3000K	≥90
LHEXBQP6IN1W020	20W	240	≥80	≥0.95	1910	4000K	≥95
LHEXBQP7IN1W020	20W	240	≥80	≥0.95	2010	6500K	≥100

IS 10322 (Part 5/Sec 1): 2012



Surface and wall mounted LED batten, extruded aluminium housing provided for efficient heat dissipation with polycarbonate diffuser & integrated electronic driver.



ENDURA LINEAR NEO

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing

Epoxy powder coated white extruded aluminium channel housing for efficient heat dissipation.

Light source

High efficiency long life LED chips with lumen efficacy of 125lm/W with a viewing angle of 120° to ensure better lumen output.

Diffuser

Milky white, special polycarbonate diffuser, for glare-free efficient light distribution.

End caps

Elegantly designed white coloured ABS end caps to enhance the aesthetic view of the fixture.

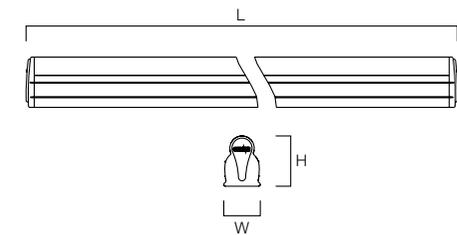
Electronic Driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Can be fixed directly into the wall/ ceiling by means of mounting SS clips provided with the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Suspention Wire Distance (D)
10W	581	25	35	At Centre
20W	1144	25	35	At Centre

All dimensions are in mm
Tolerance: ± 2 mm

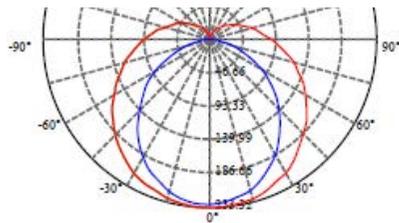
APPLICATIONS

- Residences
- Showrooms
- Cove lighting
- Hospital premises
- Educational institutions
- Corridors
- Under shelf applications



Green LED | 10/20W | Life 50000hrs | HighEfficiency

POLAR PLOT

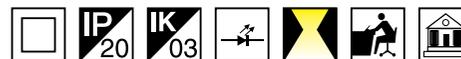


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEBP5IN1W010	10W	240	≥80	≥0.95	850	3000K	≥85
LHEWEBP6IN1W010	10W	240	≥80	≥0.95	900	4000K	≥90
LHEWEBP7IN1W010	10W	240	≥80	≥0.95	950	5700K	≥95
LHEWEBP5IN1W020	20W	240	≥80	≥0.95	1800	3000K	≥90
LHEWEBP6IN1W020	20W	240	≥80	≥0.95	1900	4000K	≥95
LHEWEBP7IN1W020	20W	240	≥80	≥0.95	2000	5700K	>100

Driver code: LSSCRX1762 for 10W, LSSCRX1763 for 20W.

IS 10322 (Part 5/Sec 1): 2012



Stout LED is a complete range of LED battens to replace traditional T8 battens (600mm & 1200mm). The range is perfect for lighting large areas such as corridors, warehouses & general purpose spaces.



STOUT

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing

Epoxy powder coated white extruded aluminium channel housing for efficient heat dissipation.

Light source

High efficiency long life LED chips with $Ra > 80$ & lumen efficacy of 125lm/W with a viewing angle of 120° to ensure better lumen output.

Diffuser

Milky white, polycarbonate diffuser, for glare-free efficient light distribution.

End caps

Elegantly designed white coloured ABS end caps to enhance the aesthetic view of the fixture.

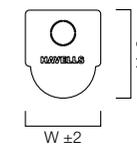
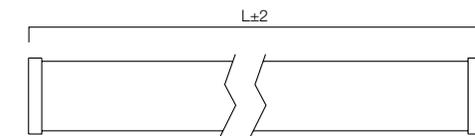
Electronic Driver

Powered by an Integral electronic driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Can be fixed directly into the wall/ ceiling by means of mounting SS clips provided with the fixture.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Suspention Wire Distance (D)
40W	1205	65.5	76	At Centre

All dimensions are in mm
Tolerance: ± 2 mm

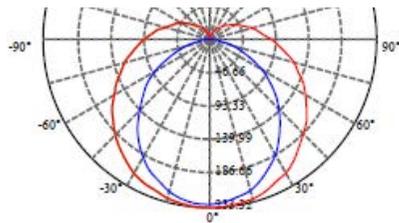
APPLICATIONS

- Residences
- Showrooms
- Cove lighting
- Hospital premises
- Educational institutions
- Corridors
- Under shelf applications



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

POLAR PLOT

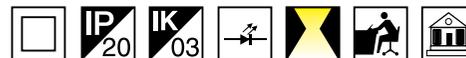


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEYBYP6OE1W040	40W	240	≥80	≥0.95	3600	4000K	≥90
LHEYBYP7OE1W040	40W	240	≥80	≥0.95	3800	5700K	≥95

Driver code: LD36V0900PA(N)

IS 10322 (Part 5/Sec 1): 2012



General purpose industrial compact batten suitable for single or twin LED Tubelight with integral LED driver, available in single / double side connection options.



REGAL BATTEN LED

PRODUCT SPECIFICATIONS

Housing & Cover

Housing & cover made up of CRCA sheet steel. Cover is fixed to the housing by means of 2 nos. bolt with engineering plastic head.

Finish

Epoxy powder coated white after phosphochromate treatment.

Light source

Complete internal wiring suitable for retrofit LED tubelight with single / double side connections.

* LED Tube Light Data Sheet (Supply connection on opposite side)

LED Tube Light Data Sheet (Supply connection on one side)

Lamp holders

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

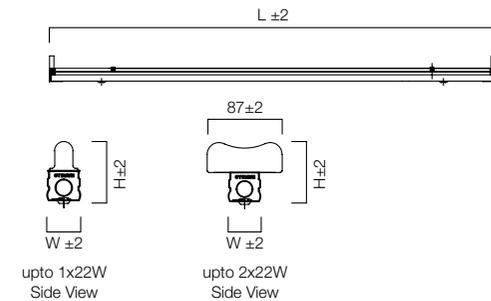
Optics

White power coated CRCA sheet used as Reflector.

Mounting

On ceiling/ wall with screws at a distance of 900 mm, suspend by 2 nos. Ø19 mm conduit pipe at a distance of 600 mm or with chains at a distance of 700 mm.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
40W	1224	38	68

All dimensions are in mm
Tolerance: ± 2 mm

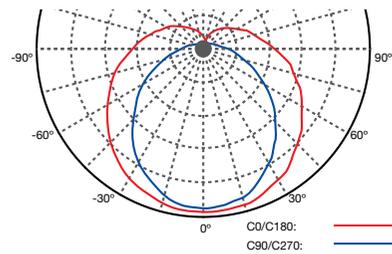
APPLICATIONS

- Schools
- Lobbies
- Residences
- Industrial bays
- Railway platforms
- Godowns/ garages



Green
LED

POLAR PLOT



TECHNICAL DATA

Ordering Code	Voltage (V)	Lamp	Lamp Holder
LHFYBWP1TB1W020*	250	upto 1x22W LED T8	G 13
LHFYBYPNIA1W022#	250	upto 1x22W LED T8	G 13
LHFYBWP2TB1W020*	250	upto 2x22W LED T8	G 13
LHFYBYG2IN1W020#	250	upto 2x22W LED T8	G 13

* LED Tube Light supply connection on opposite side

LED Tube Light with supply connection on one side





Lamps



Ultra bright LED polycarbonate Tubelight with <10% THD with very high efficacy suited for installation in existing T8 tubelight with G13 lamp holders to give glare-free light.



PHOTON ULTRA TUBELIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance .
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed polycarbonate housing in opal finish to provide glare-free uniform light distribution.

Light source

High efficiency long life SMD LED module with lumen efficacy of 140 lm/W to enhance the lumen output.

End Caps

High quality polycarbonate end caps in white finish are snap fitted to the housing.

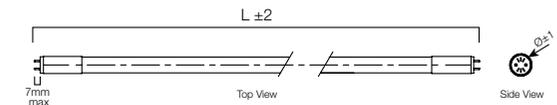
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection upto 4kV and other safety tests as per IS15885 Part2/Sec13.

Mounting

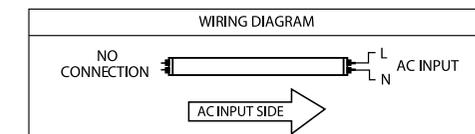
Direct installed in existing T8/T12 FTL conventional lighting fixtures, refer wiring diagram for proper installation.

TECHNICAL DRAWING



System Power	L	Ø
10W	600	28.5
13W	1200	28.5
15W	1200	28.5
18W	1200	28.5
20W	1200	28.5

All dimensions are in mm
Tolerance: ± 2 mm



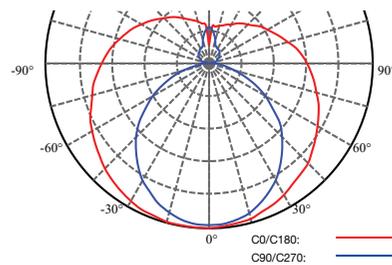
APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green LED | 10/13/15/18/20W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDCLXNUL8X010	10W	240	≥80	G 13	≥0.95	1000	6500K	>100
LHLDCLXNUL8X013	13W	240	≥80	G 13	≥0.95	1600	6500K	>120
LHLDCLXNUL8X015	15W	240	≥80	G 13	≥0.95	1800	6500K	>120
LHLDCLXNUL8X018	18W	240	≥80	G 13	≥0.95	2000	6500K	>110
LHLDCLXNUL8X020	20W	240	≥80	G 13	≥0.95	2100	6500K	>105



Ultra bright LED polycarbonate tubelight with <10% THD with very high efficacy suited for installation in existing T8 tubelight luminaire with G13 lamp holders.



PHOTON ULTRA PLUS TUBELIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance .
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed polycarbonate housing in opal finish to provide glare-free uniform light distribution.

Light source

High efficiency long life SMD LED module with lumen efficacy of 140 lm/W to enhance the lumen output.

End Caps

High quality polycarbonate end caps in white finish are snap fitted to the housing.

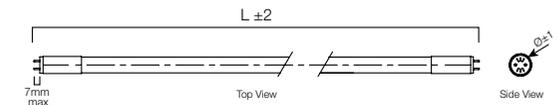
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection upto 4kV and other safety tests as per IS15885 Part2/Sec13.

Mounting

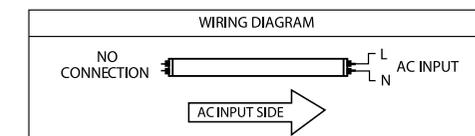
Direct installed in existing T8/T12 FTL conventional lighting fixtures, refer wiring diagram for proper installation.

TECHNICAL DRAWING



System Power	L	Ø
10W	600	28.5
13W	1200	28.5
15W	1200	28.5
18W	1200	28.5
20W	1200	28.5

All dimensions are in mm
Tolerance: ± 2 mm



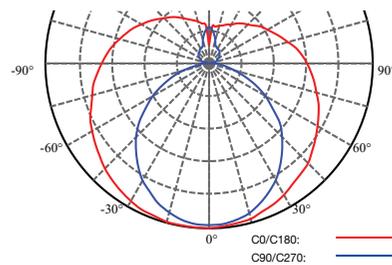
APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green LED | 10/13/15/18/20W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDCLXEUL83010	10W	240	≥80	G 13	≥0.95	1100	6500K	>110
LHLDCLXEUL83013	13W	240	≥80	G 13	≥0.95	1420	6500K	>109
LHLDCLXEUL83015	15W	240	≥80	G 13	≥0.95	1700	6500K	>113
LHLDCLXEUL83018	18W	240	≥80	G 13	≥0.95	1980	6500K	>110
LHLDCLXEUL83020	20W	240	≥80	G 13	≥0.95	2200	6500K	>110



Ultra bright LED Tubelight (opposite side connections) with very high efficacy suited for installation in existing tubelight G13 lamp holders to give glare-free light.



CRYSTAL GLASS TUBELIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Soda Glass Tube coated with water based silicon adhesive to provide glare-free uniform light distribution.

End Caps

High quality polycarbonate end caps in white finish are snap fitted to the housing.

Light source

High efficiency long life SMD LED module is mounted on MCPCB with lumen efficacy of 140 lm/W to enhance the lumen output.

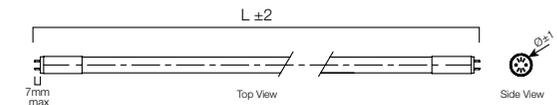
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection upto 3kV and other reliability tests as per IS15885 Part2/Sec13.

Mounting

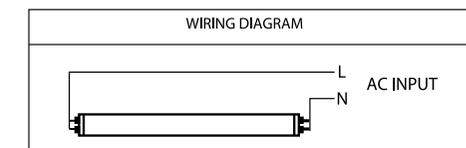
Direct installed in existing T8/T12 FTL conventional lighting fixtures, refer wiring diagram for proper installation.

TECHNICAL DRAWING



System Power	L	Ø
13W	1200	28.5
15W	1200	28.5
18W	1200	28.5

All dimensions are in mm
Tolerance: ± 2 mm



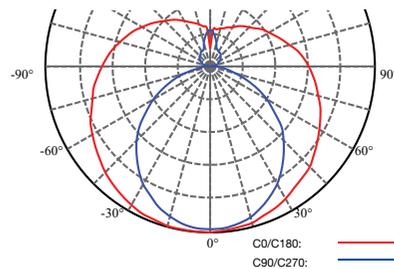
APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green LED | 13/15/18W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDDAXEUL8Z013	13W	240	≥80	G 13	≥0.95	1400	6500K	>107
LHLDDAXEUL8Z015	15W	240	≥80	G 13	≥0.95	1575	6500K	>105
LHLDDAXEUL8Z018	18W	240	≥80	G 13	≥0.95	1900	6500K	>105



Ultra bright LED Tubelight with aluminium heat sink & polycarbonate diffuser having high efficacy suited for installation in existing T8 tubelight with G13 lamp holders to give glare-free light.



TITANIA PRO TUBELIGHT (RETROFIT)

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance .
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed aluminium heat sink for efficient heat dissipation.

Light source

High efficiency long life SMD LED module with lumen efficacy of 140 lm/W to enhance the lumen output.

Cover

Polycarbonate diffuser to provide glare-free uniform light distribution.

End Caps G13

Polycarbonate diffuser to provide glare-free uniform light distribution.

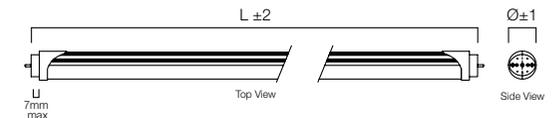
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection and other safety tests as per IS15885 Part2/Sec13.

Mounting

Direct installed in existing T8/T12 FTL conventional lighting fixtures, refer wiring diagram for proper installation.

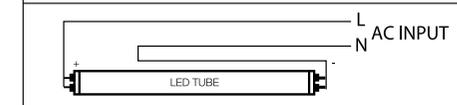
TECHNICAL DRAWING



System Power	L	Ø
18W	1200	28.5
20W	1200	28.5

All dimensions are in mm
Tolerance: ± 2 mm

WIRING DIAGRAM



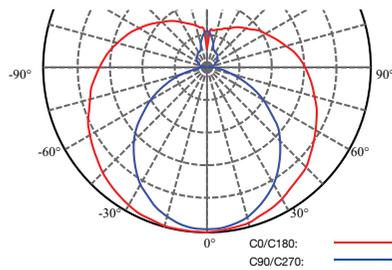
APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green LED | 18/20W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDDDBXEUL7Z018	18W	240	≥80	G 13	≥0.90	1800	6500K	>100
LHLDDDBXEUL7Z020	20W	240	≥80	G 13	≥0.90	2000	6500K	>100



Ultra bright LED Tubelight (opposite side connection with external LED driver) with very high efficacy suited for installation in existing tubelight G5 lamp holders to give glare-free light.



TITANIA SLEEK NEW T5 TUBELIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance .
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed aluminium heat sink for efficient heat dissipation mated with high efficacy polycarbonate diffuser to provide glare-free uniform light distribution.

Light source

High efficiency long life SMD LED module is mounted on MCPCB with lumen efficacy of 140 lm/W to enhance the lumen output.

End Caps

High quality polycarbonate end caps in white finish are snap fitted to the housing.

Electronic driver

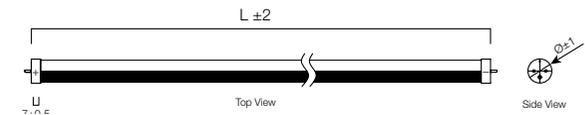
Independent, external electronic driver in ABS housing (SMPS based constant current supply), THD<20%.

Warning : Do not connect AC mains directly to the LED tube pins. Always use LED driver supplied along with the LED tube.

Mounting

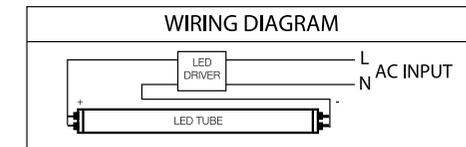
Direct installed in existing T5 FTL conventional lighting fixtures, refer wiring diagram for proper installation.

TECHNICAL DRAWING



System Power	L	Ø
18W	1150	16

All dimensions are in mm
Tolerance: ± 2 mm



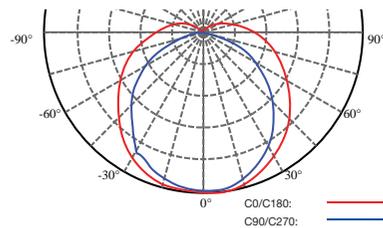
APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green LED | 18W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDCNVENL8Z018	18W	240	≥80	G 5	≥0.90	1920	6500K	>106

Driver code: LSSLOX0156

IS 15885 (Part 2/Sec 13)



Ultra bright LED PL-L with very high efficacy suited for installation in existing 2G11 lamp holders to give glare-free light.



PHOTON ULTRA PL-L

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance .
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Elegantly designed aluminium heat sink for effective thermal management, sturdiness & excellent corrosion resistant.

Light source

High efficiency long life SMD LED module with lumen efficacy of 130 lm/W to enhance the lumen output.

End Caps

White finish ABS end caps screwd to the heat sink on both sides of the fixture to enhance the aesthetics of the tubelight.

Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection and other safety tests as per IS15885 Part2/Sec13.

Mounting

Perfectly fits into existing PL-L fixtures with 2G11 lamp holders, refer wiring diagram for proper installation.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
9W	222	44	29
18W	419	44	29

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings



Green **LED** | 9/18W | Life 50000hrs | HighEfficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Lamp Holder	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLDEJNEML8Z009	9W	240	≥80	2G11	≥0.95	900	6500K	>100
LHLDEJNEML8Z018	18W	240	≥80	2G11	≥0.95	1800	6500K	>100



Energy efficient 5W LED spotlight for low ceiling height applications. An alternative for MR16 halogen lamp.



NOVASTAR NEO 5W

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life L_{70B50} : 35000 hours

Housing & Finish

White coloured ABS housing with white coloured pressure die-cast aluminium heat sink for efficient thermal management, sturdiness and excellent corrosion resistant.

Light source

High efficiency long life SMD LED module with lumen efficacy of 130 lm/W & viewing angle of 120° to ensure better uniformity of light distribution.

Optics

High quality polycarbonate prismatic lense with 40° light spread for comfortable lighting.

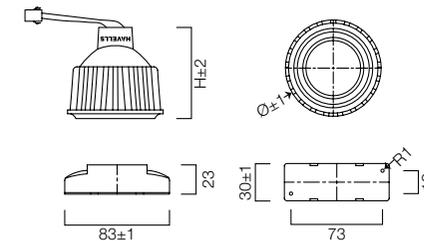
Electronic driver

Powered by an independent electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Over Voltage Protection, Surge Protection & Other safety tests as per IS 15885 Part 2/Section 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided with Clieo fixtures/can be fixed in place of MR16 lamp (12V 50W halogen lamp).

TECHNICAL DRAWING



System Power	Ø (L)	Height (H)
5W	50	47

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- BPOs
- Meeting rooms
- Corporate offices
- Modern hospitals
- Modern work spaces
- Software development centers



Green LED | 5W | Life 35000hrs | HighEfficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEEAYPAIH1W005	5W	240	≥80	≥0.90	350	3000K	≥70
LHEEAYPDIH1W005	5W	240	≥80	≥0.90	400	4000K	≥80
LHEEAYPFIH1W005	5W	240	≥80	≥0.90	400	5700K	≥80

Driver code : LSSCRX2048.

IS 15885 (Part 2/Sec 13)



Energy efficient 7W LED spotlight for low ceiling height applications. An alternative for MR16 halogen lamp.



NOVASTAR NEO 7W

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life L^{70B50}: 35000 hours

Housing & Finish

White coloured ABS housing with white coloured pressure die-cast aluminium heat sink for efficient thermal management, sturdiness and excellent corrosion resistant.

Light source

High efficiency long life SMD LED module with lumen efficacy of 130 lm/W & viewing angle of 120° to ensure better uniformity of light distribution.

Optics

High quality polycarbonate prismatic lense with 40° light spread for comfortable lighting.

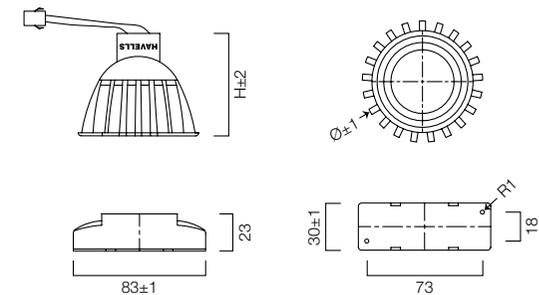
Electronic driver

Powered by an independent electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Over Voltage Protection, Surge Protection & Other safety tests as per IS 15885 Part 2/Section 13.

Mounting

Fixing into false ceiling by means of 2 nos. SS springs/ clips provided with Clieo fixtures/can be fixed in place of MR16 lamp (12V 50W halogen lamp).

TECHNICAL DRAWING



System Power	Ø (L)	Height (H)
5W	50	47

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- BPOs
- Meeting rooms
- Corporate offices
- Modern hospitals
- Modern work spaces
- Software development centers



Green LED | 7W | Life 35000hrs | HighEfficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEEAYPAPH1W007	7W	240	≥80	≥0.90	400	3000K	≥57
LHEEAYPDPH1W007	7W	240	≥80	≥0.90	400	4000K	≥57
LHEEAYPPFH1W007	7W	240	≥80	≥0.90	450	5700K	≥64

Driver code : LSSCRX1934.

IS 15885 (Part 2/Sec 13)



Flexible LED strip uses high brightness SMD LED as the light source for indoor application only. It is highly suitable for cove-lighting, decorative lighting, etc.

LED FLEXISTRIP- IP20

PRODUCT SPECIFICATIONS

Features & Benefits

- Shape for different requirements
- Light weight
- Longevity lifespan
- Rugged durability
- Safety input voltage for LED module
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life L^{70B50} : 30000 hours

Note : Recommended only for indoor applications.

Housing

Flexible PCB, Dual layers, 5000x10x2mm
Cable: Dual wires: red and black color
single sided tape is used at the back of the strip to mount it

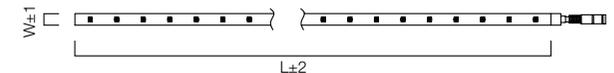
Note : Recommended only for indoor applications.

Electronic Driver

Powered by a separate, replaceable, constant voltage electronic driver, Output Short-Circuit Protection and other safety tests as per IS 15885 Part 2 / Sec 13.



TECHNICAL DRAWING



All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- Cove lighting
- Airport lounges
- Banks & ATM outlets
- Modern work spaces
- Software development centres



Green LED | 24/55W | Life 30000hrs | High Efficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEHDEP5UN1F024	24W	240	≥80	>0.50	3000K	-
LHEHDEP7UN1F024	24W	240	≥80	>0.50	6500K	-
LHEHDEP5UN1F055	55W	240	≥80	>0.50	3000K	-
LHEHDEP7UN1F055	55W	240	≥80	>0.50	6500K	-

Driver code : LSSLOW0081 FOR 24W, LSSLOW0083 FOR 55W

IS 15885 (Part 2/Sec 13)





Clean Room Luminaire



IP54, dust-free & zero maintenance LED Clean Room Top Opening luminaires for hygienic facilities.



LED CLEAN ROOM TOP OPENING

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life L70B50: 50000 hours

Housing

MS powder coated white after phosphochromate treatment provided as standard.

*SS top frame available on request. IP65 version available on request.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Diffuser

High quality polycarbonate opal diffuser for glare-free uniform light distribution.

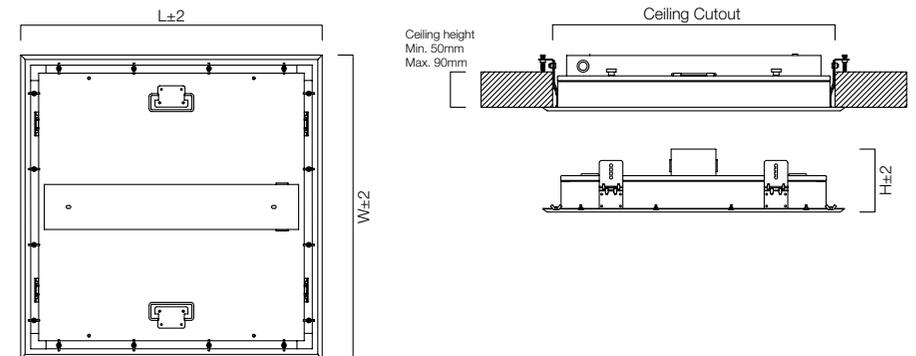
Electronic driver

Powered by an independent, isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Provision for recess mounting through 4nos. recessed mounting clamps.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
34W	640	640	135	600x600
42W	640	640	135	600x600
60W	640	640	135	600x600
80W	640	640	135	600x600

All dimensions are in mm
Tolerance: ± 2 mm

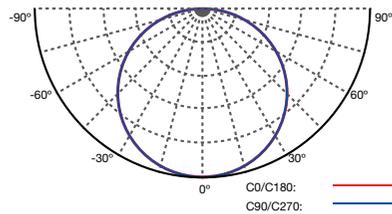
APPLICATIONS

- Pharmaceutical industries
- Electronic & precision engineering facilities
- Chemical & biological labs
- Semiconductor fabrication
- Food & beverage industries
- Hospital & veterinary premises



Green LED | 34/42/60/80W | Life 50000hrs | HighEfficiency

POLAR PLOT



Accessories - Walkable Tray For Top Opening Clean Room Fixtures

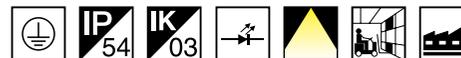
Ordering Code	Compatible with	Size (LxW) in mm
LSSLOW0074	Walkable Tray 2x2 for TOCR	740x740



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHECDDL7PL5W034	34W	240	≥80	≥0.90	3570	5700K	≥105
LHECDDL7PL5W042	42W	240	≥80	≥0.90	4410	5700K	≥105
LHECDDL7PL5W060	60W	240	≥80	≥0.90	6300	5700K	≥105
LHECDDL7PL5W080	80W	240	≥80	≥0.90	8000	5700K	≥100

Driver code: LSSCRX1789 for 34W, LSSCRX1791 for 42W, LSCELDOX0231 for 60W, LSSCRX1791 for 80W.



Note: IP54 after proper installation.

IP54, dust-free & zero maintenance LED Clean Room Bottom Opening
Opening luminaires for hygienic facilities.



LED CLEAN ROOM BOTTOM OPENING

PRODUCT SPECIFICATIONS

Features & Benefits

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life L70B50: 50000 hours

Housing

MS powder coated white after phosphochromate treatment provided as standard.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 140 lm/W and viewing angle of 120° to ensure better uniformity.

Diffuser

High quality polycarbonate opal diffuser for glare-free uniform light distribution.

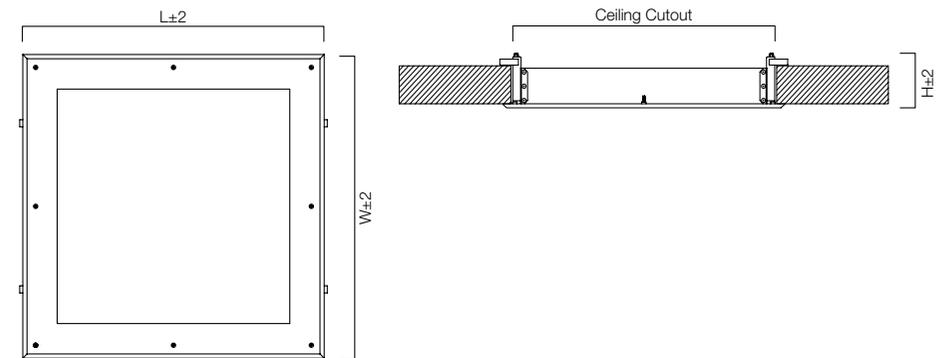
Electronic driver

Powered by an integral, Isolated, SELV Output electronic LED driver (SMPS based constant current supply) with Output Short-circuit protection, Surge protection & other Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

Provision for recess mounting through 4nos. recessed mounting clamps.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
34W	640	640	115	600x600
42W	640	640	115	600x600
60W	640	640	115	600x600
80W	640	640	115	600x600

All dimensions are in mm
Tolerance: ± 2 mm

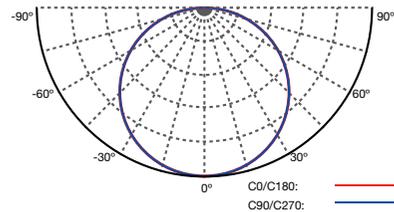
APPLICATIONS

- Pharmaceutical industries
- Electronic & precision engineering facilities
- Chemical & biological labs
- Semiconductor fabrication
- Food & beverage industries
- Hospital & veterinary premises



Green LED | 34/42/60/80W | Life 50000hrs | HighEfficiency

POLAR PLOT

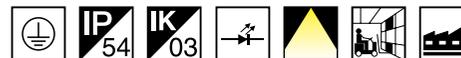


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEDDNP7PL5W034	34W	240	≥80	≥0.90	3400	5700K	≥100
LHEDDNP7PL5W042	42W	240	≥80	≥0.90	4200	5700K	≥100
LHEDDNP7PK5W060	60W	240	≥80	≥0.90	6000	5700K	≥100
LHEDDNP7PK5W080	80W	240	≥80	≥0.90	6800	5700K	≥85

Driver code: LSSCRX1789 for 34W, LSSCRX1791 for 42W, LSSCRX1789, LSSCRX2118 for 60W, LSSCRX1791 for 80W.

Note: IP54 after proper installation.





Industrial Lighting

Highbay Lights



Energy saving, environment-friendly, long life, corrosion resistance, impact proof, surface mounting IP65 luminaires with PC housing in opal finish suitable for wet location with high brightness LEDs.



MAGNUM LED 24W

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Made up of corrosion resistance round shaped unbreakable polycarbonate body in opal finish.

Light source

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

End caps

White coloured ABS end caps and PG gland for cable entry & IP.

Optics

Reflector made of LEF pasted on Al. sheet (heat sink) on both sides of LED strip to enhance the lumen output and glare-free uniform light distribution.

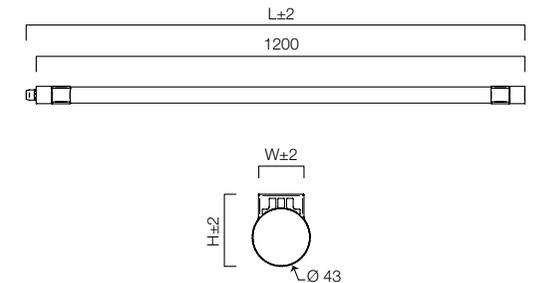
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with Output Short-circuit / Open Circuit protection, Surge Voltage protection & other safety tests as per IS:15885 Part 2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
24W	1227	34	53

All dimensions are in mm
Tolerance: ± 2 mm

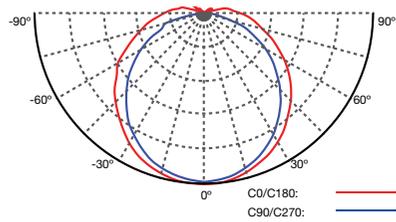
APPLICATIONS

- Battery rooms
- Chilling plants
- Chemical factories
- Underground parkings
- Thermal power stations



Green LED | 24W | Life 50000hrs | High Efficiency

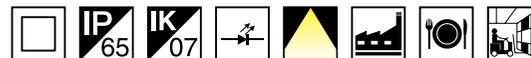
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHFKAWN7UC8W024	24W	240	≥80	≥0.90	2050	5700K	≥85

IS 10322 (Part 5/Sec 1): 2012



Energy saving, environment-friendly, long life, corrosion resistance, impact proof, surface mounting IP65 luminaires with PC housing & opal finish cover suitable for wet location. LEDs used as light source.



MAGNUM GRAND

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing & Finish

Made up of scratch resistant unbreakable polycarbonate in grey finish. PG11 cable gland is used for maintaining ingress protection.

Light source

High efficiency long life LED package in integral module with lumen efficacy of ≥ 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

With power coated CRCA sheet acts as reflector and control gear tray.

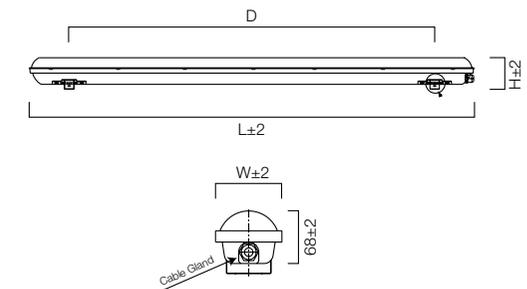
Electronic driver

Powered by an integral electronic driver (SMPS based constant current supply) with low THD, Output Short-circuit / Open Circuit protection, Surge protection & Safety tests as per IS:15885 Part 2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	CD of mounting holes (D)
20W	590	86	73	380
40W	1180	86	73	970

All dimensions are in mm
Tolerance: ± 2 mm

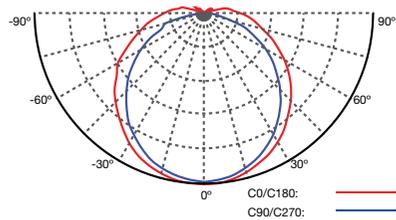
APPLICATIONS

- Battery rooms
- Chilling plants
- Underground parkings
- Thermal power stations



Green LED | 20/40W | Life 50000hrs | HighEfficiency

POLAR PLOT

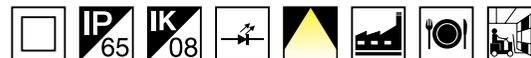


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHESAPP7PN1W020	20W	240	≥80	≥0.95	1700	5700K	≥85
LHESAPP7PN1W040	40W	240	≥80	≥0.95	3400	5700K	≥85

Driver code: LSSCRX1763 for 20W, LSSCRX1763 for 40W (2 nos.).

IS 10322 (Part 5/Sec 1): 2012



Energy saving, environment-friendly, long life, corrosion resistance, impact proof, surface/suspended mounting luminaires with PC housing and linear ribbed PC cover for glare-free light, suitable for T8 LED Tube with single side connection.



MAGNUM RETRO (Single side connection)

PRODUCT SPECIFICATIONS

Housing & Finish

Made up of corrosion resistance unbreakable polycarbonate.

Light Source

Complete internal wiring suitable for retrofit LED tubelight with single site connections.

Cover

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

Lamp Holders

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

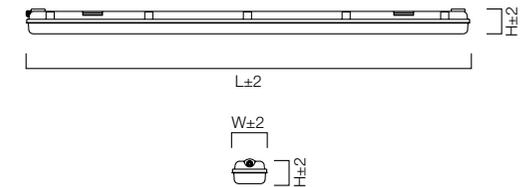
Optics

White power coated CRCA sheet used as Reflector.

Mounting

Surface/suspended mounting using SS Clip, for detail refer installation sheet.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
-	1228	100	70

All dimensions are in mm
Tolerance: ± 2 mm

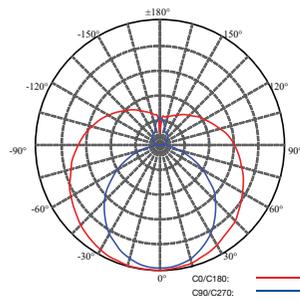
APPLICATIONS

- Battery rooms
- Chilling plants
- Chemical factories
- Underground parkings
- Thermal power stations



Green
LED | HighEfficiency

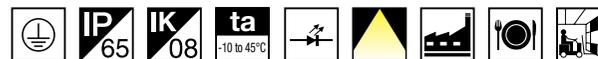
POLAR PLOT



TECHNICAL DATA

Ordering Code	Voltage (V)	Lamp	Lamp Holder
LHFKAWN1TC6J018	250	1xT8 LED Tube	G 13
LHFKAWN2TC6J018	250	2xT8 LED Tube	G 13

* For LED Tube light, refer detail Technical Data Sheet of LED Tube light.



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



ENDURA WELL GLASS NEO

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70, B_{50}}$: 50000 hours

Housing

Pressure die-cast aluminum alloy LM24 housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance 2 nos.

cable gland PG11 is provided at cable entry for maintaining Ingress protection and for providing loop-in & loop-out facility.

Finish

Epoxy powder coated after phosphochromate treatment in metallic silver finish.

Light source

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

Cover

Polycarbonate diffuser in opal finish for glare-free light distribution fixed to the housing with 5 nos. SS screws.

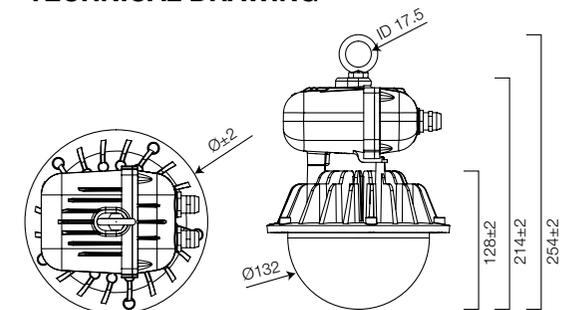
Electronic driver

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

Mounting

Suspended by heavy duty eye-bolt hook provided with the fixture.
Allen grub screw is provided for locking the mounting eye-bolt.

TECHNICAL DRAWING



System Power	ØxH
20W	170x254
35W	170x254
40W	170x254

All dimensions are in mm
Tolerance: ± 2 mm

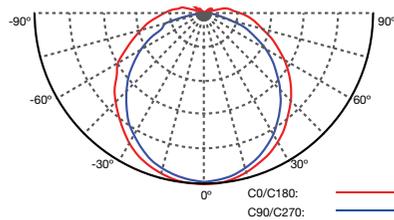
APPLICATIONS

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



Green LED | 24/35/40W | Life 50000hrs | High Efficiency

POLAR PLOT

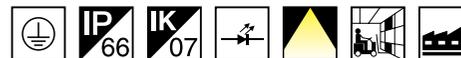


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEMABNDPN6S024	24W	240	≥70	≥0.95	2280	5000K	≥95
LHEMABNDPN7S035	35W	240	≥70	≥0.95	3500	5000K	≥100
LHEMABNDPN7S040	40W	240	≥70	≥0.95	3750	5000K	≥93

Driver code: LSSLOX0086 for 24W, LSSLOX0137 for 35W, LSSLOX0063 for 40W.

IS 10322 (Part 5/Sec 1): 2012



Energy saving, Environment-friendly & robust open type vertical Mediumbay/Highbay LED IP54 luminaires with high power COB LED as light source.



ENDURA HIGHBRITE PLUS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Extruded aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistance. Pressure die-cast aluminium housing (ADC12/LM24) for controlgear. PG7 gland is used for cable entry for maintaining 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 $Ra \geq 70$ 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 & comfortable lighting with beam angle of 90°/60°.

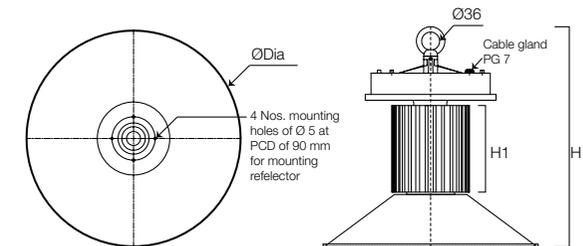
Electronic driver

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

Mounting

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

TECHNICAL DRAWING



System Power	Ø (Dia)	Total Height (H)	Heat Sink Height (H1)
50W	362±2	352±2	82±2
90W	362±2	352±2	82±2
150W	447±2	490±2	180±2

All dimensions are in mm
Tolerance: ± 2 mm

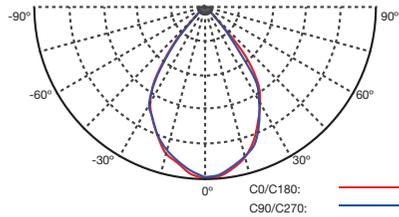
APPLICATIONS

- Cement & steel plants
- Ware houses
- Factories & assembly lines
- Toll plazass



Green LED | 50/90/150W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHELAWUDPC5K050	50W	240	≥70	≥0.90	5000	5000K	≥100
LHELAYUDPN6K090	90W	240	≥70	≥0.95	9000	6500K	≥100
LHELAYUDPG6K090	90W	240	≥70	≥0.95	9000	6500K	≥100
LHELAYUDPN6K150	150W	240	≥70	≥0.95	15000	6500K	≥100
LHELAYUDPG6K150	150W	240	≥70	≥0.95	15000	6500K	≥100

Driver code: LHGDKDDFGRB1050 for 50W, LSSLOX0175 for 90W, LSSLOX0167 for 150W.

IS 10322 (Part 5/Sec 1): 2012



Energy saving, Environment-friendly & robust Mediumbay /Highbay LED luminaires with high efficacy.



ENDURA BAYBRITE SAUCER

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Aluminum alloy pressure die casted housing & control gear box for better heat dissipation and aesthetic appeal. PG9 gland is used for cable entry and loopin-loopout.

Finish

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

Light source

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

Optics

High quality PC lens with optional beam angles 60° & 90° for uniform distribution.

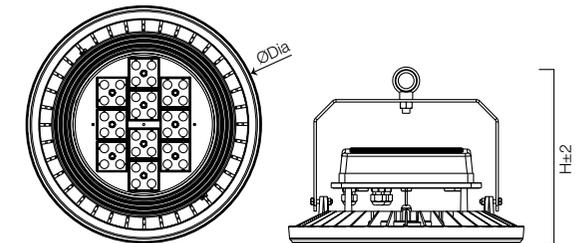
Electronic driver

Integral, electronic driver with APFC, lower THD, Open Circuit Protection, Surge Voltage Protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Ø (Dia)	Height (H)
80W	380	230
120W	380	230

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- Cement & steel plants
- Ware houses
- Factories & assembly lines
- Toll plazass



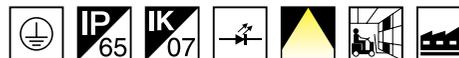
Green LED | 80/120W | Life 50000hrs | HighEfficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Beam Angle	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHELAQU7PG6W080	80W	240	≥80	≥0.95	60°	9600	5700K	≥120
LHELAQU7IG6W080	80W	240	≥80	≥0.95	60°	9600	5700K	≥120
LHELAQU7PG6W120	120W	240	≥80	≥0.95	90°	14400	5700K	≥120
LHELAQU7IG6W120	120W	240	≥80	≥0.95	90°	14400	5700K	≥120

Driver code: LSCELDX0196 for 80W, LSSCRX1874 for 120W,

IS 10322 (Part 5/Sec 1): 2012



Energy saving, environment-friendly, long life, exclusive innovative pressure die-cast aluminium IP66 Bay light with high power LEDs as light source, suitable for highlighting architectural features or retail spaces.



ENDURA BAYBRITE PLUS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Aluminum alloy pressure die casted housing & control gear box for better heat dissipation and aesthetic appeal. Cable gland is used for cable entry and loop-in-loopout.

Finish

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

Light source

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

Optics

High quality PC lens with optional beam angles 60° & 90° for uniform distribution.

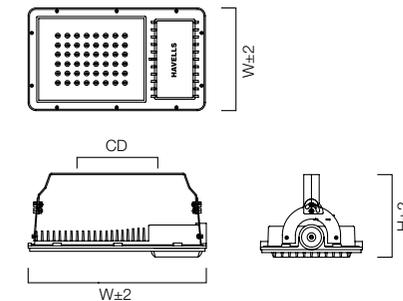
Electronic driver

Integral, electronic driver with APFC, lower THD, Open Circuit Protection, Surge Voltage Protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
80/90W	410	232	227
120W	443	252	238
150W	514	251	238

All dimensions are in mm
Tolerance: ± 2 mm

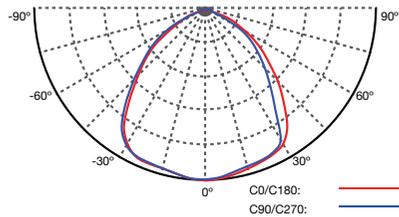
APPLICATIONS

- Cement & steel plants
- Ware houses
- Factories & assembly lines
- Toll plazass



Green LED | 80/90/120/150W | Life 50000hrs | HighEfficiency

POLAR PLOT

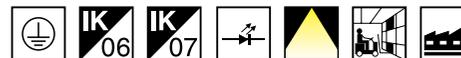


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHELANU7PG6J080	80W	240	≥70	≥0.95	8000	5700K	≥100
LHELANU7PG6J090	90W	240	≥70	≥0.95	9000	5700K	≥100
LHELANU7PG6J120	120W	240	≥70	≥0.95	12000	5700K	≥100
LHELANU7PG6J150	150W	240	≥70	≥0.95	15000	5700K	≥100

Driver code: LSSLOX0126 for 80W/90W/120W & LSSLOX0135 for 150W,

IS 15885 (Part 2/Sec 13)



Energy saving, environment-friendly, long life, exclusive innovative pressure die-cast aluminium IP66 Bay lights with high power LEDs as light source, suitable for highlighting architectural features or retail spaces.



ENDURA BAYBRITE NEO 90W

PRODUCT SPECIFICATIONS

Features & Benefits

- Better lumens & longer lamp life
- High efficacy & lower power consumption
- Extraordinary long life of LEDs (over 50,000 burning hrs.) & long life high end electronic driver ensure zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140 -270V
- Significantly lower running cost as compared to conventional lighting systems

Housing & Finish

Epoxy powder coated pressure die-cast aluminium housing (ADC12/LM24) in grey finish

with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistance. Cable gland PG7 is provided at cable entry for maintaining ingress protection.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PMMA modular lens plate of beam angle 90° to ensure better uniformity of light distribution.

Cover

Tempered protective toughened glass, thermal shock and impact-resistant, fixed to the housing with 10 nos. SS screws.

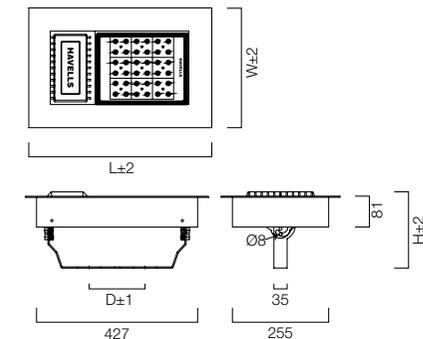
Electronic driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Wall or surface mounting using adjustable MS cradle of thickness 3 mm provided with the fixture by 2 elliptical slots of $\varnothing 12.0$ mm at a distance of 148 mm. Allen bolt is provided for angle adjustment.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting CD (D)
90W	485	315	200	$\varnothing 10$ at 148mm

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

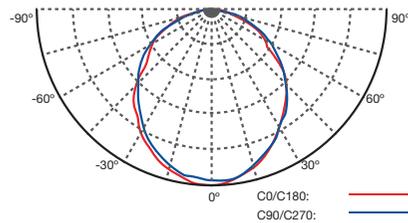
APPLICATIONS

- Sign boards
- Buildings & monuments
- Bill boards
- Shop boards



Green **LED** | **90W** | Life **50000hrs** | **High**Efficiency

POLAR PLOT



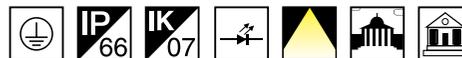
TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHELAWU7IN7J090	90W	240	≥70	≥0.95	8200	5700K	≥100

Driver code: LHGDPDFHFRBL090.

Frame code: LSSLOG0004.

IS 10322 (Part 5/Sec 1): 2012



Energy saving, environment-friendly, long life, exclusive innovative Design Petrol pumps/canopy lights with power LEDs as light source.



AKATSIYA

PRODUCT SPECIFICATIONS

Features & Benefits

- Higher lumens & longer lamp life
- High efficacy & lower power consumption
- Convenient front opening panel for field serviceability
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Operating temperature range: -10°C to +45°C
- Significantly lower running cost as compared to conventional lighting systems
- Operating voltage range: 140 -270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

Pressure Diecast aluminium. LM6 frame and elegantly designed extruded aluminium heat sink for efficient thermal management, sturdiness & excellent corrosion resistance. IP67 cable junction connector is provided in between driver output & LED supply. M12 cable gland is provided at entry position for light engine.

Light source

High efficiency long life LED package in module with lumen efficacy of ≥ 145 lm/W

Cover

High quality toughened glass with CRCA powder coated frame for recess installation.

Optics

High quality symmetric PC lens to ensure better uniformity of light distribution.

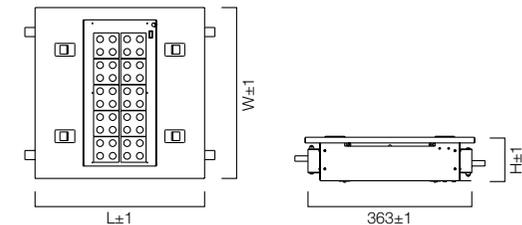
Electronic Driver

Independent electronic IP66 driver with APFC, lower THD, Open Circuit Protection, Over Voltage Protection, Surge Voltage Protection & other safety tests as per IS 15885 Part-2/ Sec 13, IEC 60598-1, 61547,61347-2-13, EN 55015.

Mounting

Suitable for recessed mounting on a cut-out size of 365x365 mm and 585x585 mm.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Cutout Size (in mm)
80W	375	375	96	365
80W	600	600	96	585

All dimensions are in mm
Tolerance: ± 2 mm

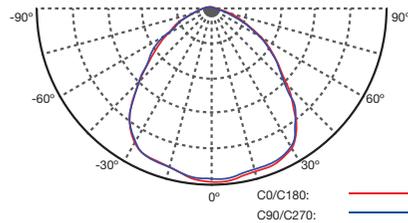
APPLICATIONS

- Petrol pumps
- Toll plazas
- Railway platforms



Green LED | 80W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEMACN7ID6W080	80W	240	≥70	≥0.95	8850	5700K	≥110
LHEMACN7OD6W080	80W	240	≥70	≥0.95	8850	5700K	≥110

Driver code: LSCELDOX0114.

IS 15885 (Part 2/Sec 13)



Flashbay LED is designed to replace existing under-canopy and industrial low-bay lights with metal halide lamps as a cost effective retrofit kit. Flashbay LED has all the advantages of LED-based lighting against metal halide lamps – much longer life, much lower energy consumption and much better lighting characteristics.



FLASHBAY LED

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 radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-300V
- HV cutoff protection @ 320V
- Average life L70B50: 50000 hours

Housing & Finish

Die-cast aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistance. SS Hardware, silicon gasket and PG9 gland is used for cable entry for maintaining ingress protection.

Light source

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

Optics

UV Stabilized, 60° beam angle, symmetrical distribution polycarbonate lens. Tempered

protective toughened glass 4 mm, thermal, shock and impact-resistant (IK-07) fixed to the housing with aluminium frame and SS screws.

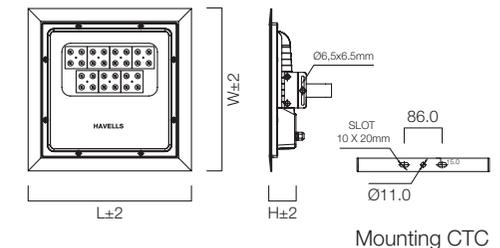
Electronic driver

Powered by an Isolated integral electronic driver (SMPS based constant current supply) with lower THD, Output Short Circuit, Over Voltage, Surge Protection & other reliability tests as per IS 15885 Part-2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
80W	370±2	365±2	60±2

All dimensions are in mm
Tolerance: ± 2 mm

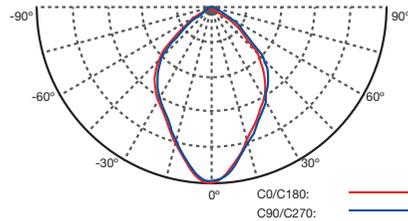
APPLICATIONS

- Cement & steel plants
- Ware houses
- Factories & assembly lines
- Toll plazass
- Exterior canopies
- Security and perimeter lighting



Green LED | 80W | Life 50000hrs | High Efficiency

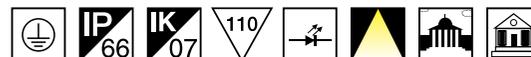
POLAR PLOT

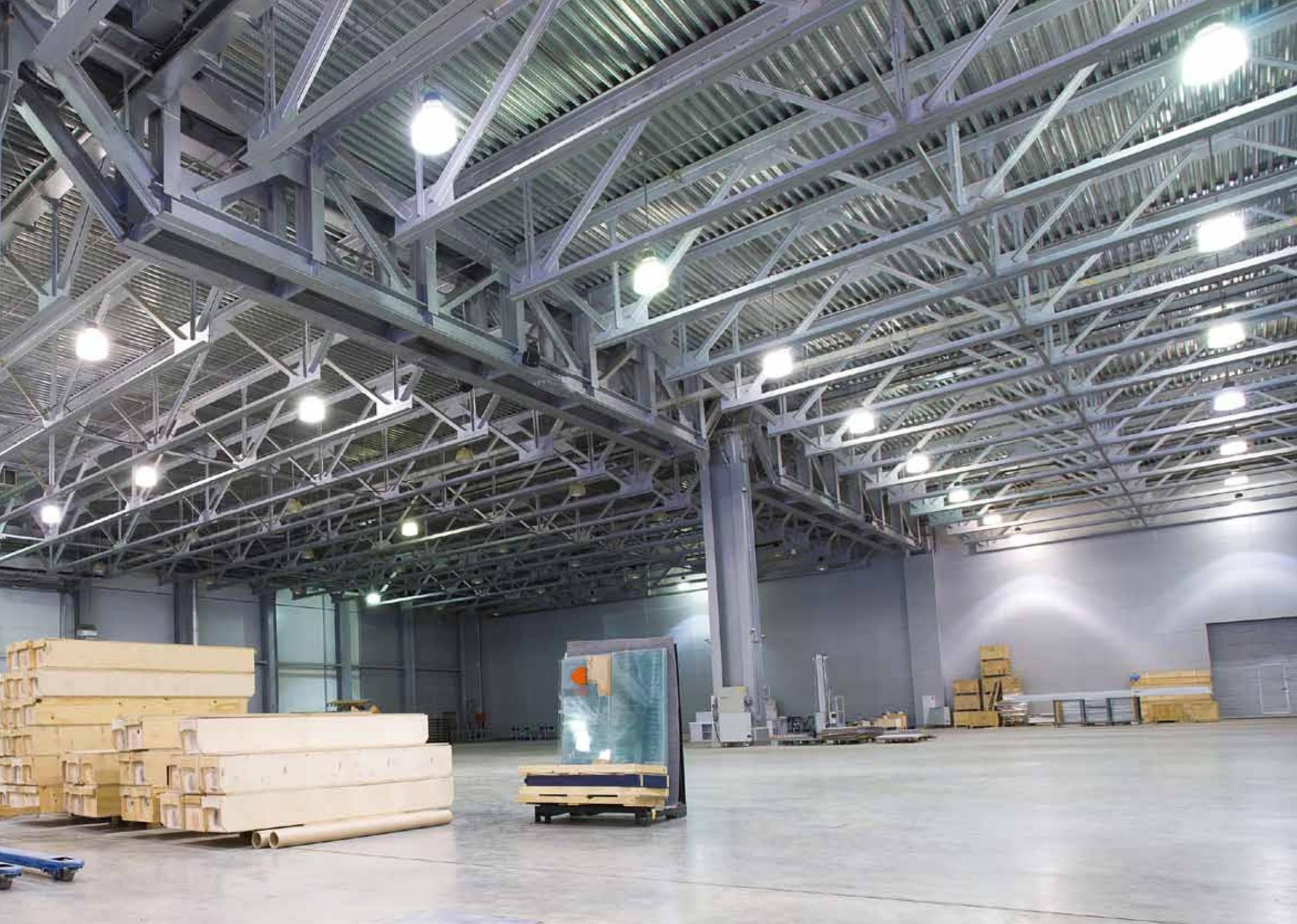


TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHELAXU7PN7W080	80W	240	≥70	≥0.95	8400	5700K	≥105

Driver code: LSSLOX0126.





Area Lighting

Flood Lights



Energy saving IP65 flood light luminaires with high power COB LED as light source.



JETA NEO 30 & 50

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Epoxy powder coated pressure die-cast aluminium housing (ADC12/LM24) in white finish with elegantly designed heat sink for efficient

thermal management, sturdiness & excellent corrosion resistance. Cable gland PG9 is provided at cable entry for maintaining ingress protection.

Light source

High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W with viewing angle 120° to ensure better uniformity of light distribution.

Optics

Reflector made up of high purity matt finish anodized aluminium sheet.

Cover

Toughened glass fixed to housing with 4 nos. screws.

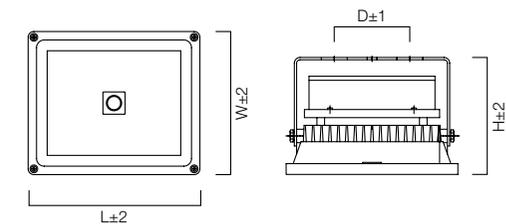
Electronic driver

Powered by an built-in, isolated electronic LED driver (SMPS based constant current supply) with Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Wall or surface mounting using adjustable MS cradle of thickness 2.5 mm provided with the fixture by 2 elliptical slots of $\varnothing 10$ mm at a distance of 90mm for 30W and at a distance of 137mm for 50W.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting Hole Distance (D)
30W	225	186	151	90
50W	287	237	170	137

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

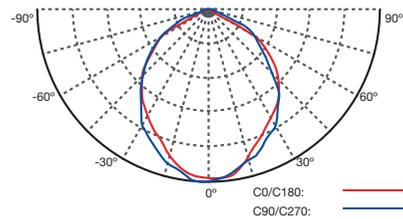
APPLICATIONS

- Sign boards
- Buildings & monuments
- Bill boards
- Shop boards



Green LED | 30/50W | Life 50000hrs | High Efficiency

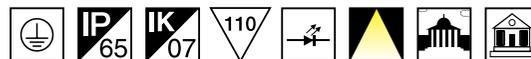
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEPBFUEIN6W030	30W	240	≥70	≥0.90	2400	5000K	≥80
LHEPBFUEIN6W050	50W	240	≥70	≥0.90	4000	5000K	≥80

Driver code: HGDRDCBHOA1030 for 30W, LHGDVDDQB1050 for 50W.



Energy saving, environment-friendly, long life, exclusive innovative die-cast aluminium flood lights with high power LEDs as light source, suitable for highlighting architectural features or retail spaces.



JETA NEO 70W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-300V
- Average life $L_{70B_{50}}$: 50000 hours

Housing & Finish

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

excellent corrosion resistance. SS Hardwares, silicon gasket and PG9 gland is used for cable entry for maintaining ingress protection.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

UV Stabilized, 60° beam angle, symmetrical distribution polycarbonate lens. Tempered protective toughened glass 4 mm, thermal, shock and impact-resistant (IK-07) fixed to the housing with aluminium frame and SS screws.

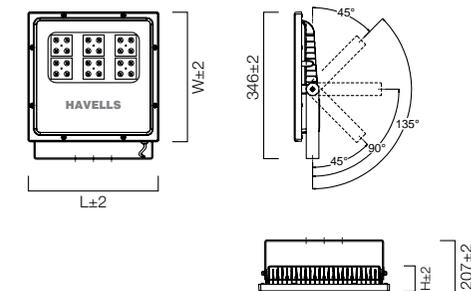
Electronic driver

Powered by an integral, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage Protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

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

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)
70W	309	346	60

All dimensions are in mm
Tolerance: ± 2 mm

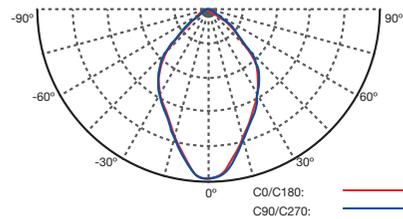
APPLICATIONS

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



Green LED | 70W | Life 50000hrs | High Efficiency

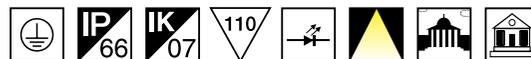
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEPBFU7PA7K070	70W	240	≥70	≥0.95	7350	5000K	≥105

Driver code: LSSLOX0133.



Energy saving, environment-friendly, long life, exclusive innovative die-cast aluminium IP65 flood light, suitable for highlighting architectural facade and general purpose lighting.



JETA NEO 100W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V

Housing & Finish

Epoxy powder coated die-cast aluminium housing (LM24) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion

resistance. Cable gland PG9 is provided at cable entry for maintaining ingress protection.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Cover

Toughened glass fixed to housing with 8 nos. screws.

Electronic driver

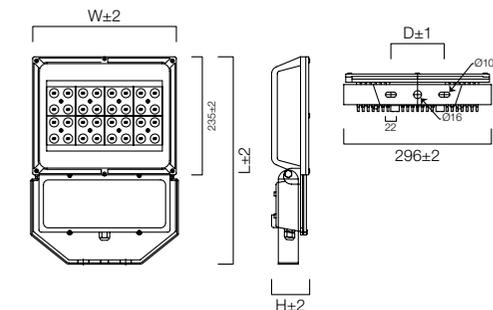
Powered by an built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit

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

Mounting

Wall or surface mounting using adjustable MS cradle of thickness 2.5 mm provided with the fixture by 2 elliptical slots of $\varnothing 10.0$ mm at a distance of 107mm.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting Hole Distance (D)
100W	412	288	76	107

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

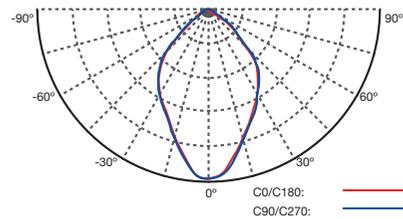
APPLICATIONS

- Sign boards
- Buildings & monuments
- Bill boards
- Shop boards



Green LED | 100W | Life 50000hrs | High Efficiency

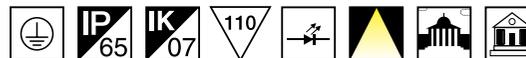
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEPCZU7PA6J100	100W	240	≥70	≥0.95	9000	5700K	≥90

Driver code: LSSLOX0233.



Energy saving, environment-friendly, long life, exclusive innovative die-cast aluminium IP65 flood lights with high power LEDs as light source, suitable for highlighting architectural facade highmast and general purpose lighting.

JETA PRO PLUS 120/150/180/200/240W



PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Epoxy powder coated pressure die-cast aluminium housing (ADC12/LM24) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistance. PG9 cable gland is provided at cable entry for maintaining ingress protection.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optic

PC modular lens plate of beam angle 60° to ensure better uniformity of light distribution.

Cover

High quality toughened glass IK07 fixed to housing.

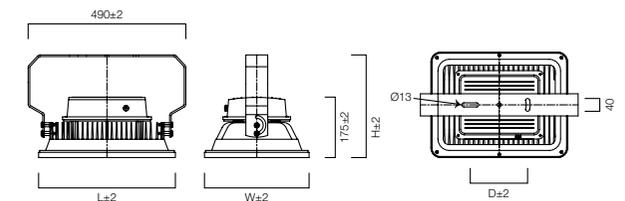
Electronic driver

Powered by integral, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage protection with SPD (10kV) & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Wall or surface mounting using adjustable MS cradle of thickness 5 mm provided with the fixture by 2 elliptical slots of 13x40mm at center distance of 150mm.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting Hole Distance (D)
100/150W	398	288	252	150
180/200W	427	325	308	178
240W	520	330	310	178

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

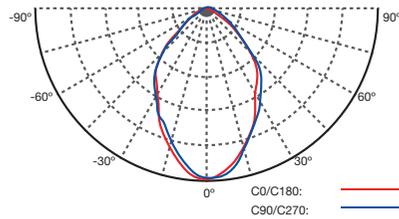
APPLICATIONS

- Sign boards
- Buildings & monuments
- Bill boards
- Shop boards



Green LED | 120/150/180 /200/240W | Life 50000hrs | HighEfficiency

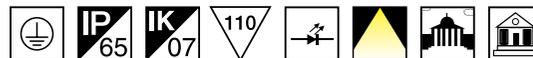
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHFPCZBFP46J120	120W	240	≥70	≥0.95	12000	5700K	≥100
LHFPCZBFP46J150	150W	240	≥70	≥0.95	15000	5700K	≥100
LHFPCZBFP46J180	180W	240	≥70	≥0.95	18000	5700K	≥100
LHFPCZBFP46J200	200W	240	≥70	≥0.95	20000	5700K	≥100
LHFPCZBFP46J240	240W	240	≥70	≥0.95	24000	5700K	≥100

Driver code : LSSCRX2037 for 120W. LSCELDOX0213 for 150W, LSSCRX1870 for 180W.
LSSCRX2023 for 200W. LSSCRX2037 for 240W.



Energy saving, environment-friendly, long life, exclusive innovative die-cast aluminium IP65 flood light with high power LEDs as light source, suitable for highlighting architectural facade highmast and general purpose lighting.



JETA PRO 300W

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Epoxy powder coated pressure die-cast aluminium housing (ADC12/LM24) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistance. Cable gland is provided at cable entry for maintaining ingress protection.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

PMMA modular lens plate of beam angle 45° to ensure better uniformity of light distribution.

Cover

High quality toughened glass IK07 fixed to housing.

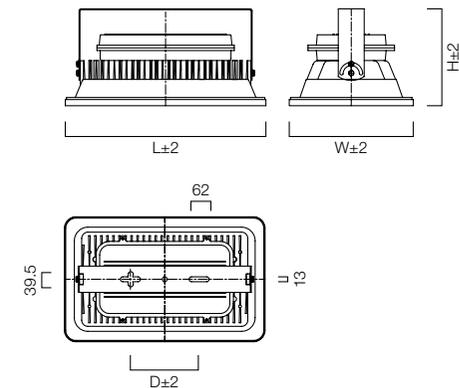
Electronic driver

Powered by 2 nos. built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage Protection with SPD (10kV) & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Wall or surface mounting using adjustable MS cradle of thickness 5 mm provided with the fixture by 2 elliptical slots of 13x62mm at center distance of 178mm.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting Hole Distance (D)
300W	665	330	257	178

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

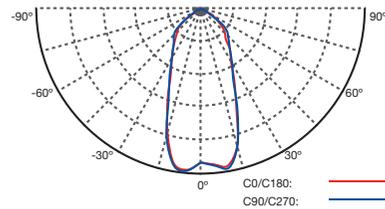
APPLICATIONS

- Sign boards
- Buildings & monuments
- Bill boards
- Shop boards



Green LED | 300W | Life 50000hrs | High Efficiency

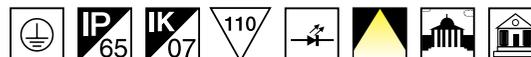
POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEPDFU7P46J300	300W	240	≥70	≥0.98	27500	5700K	≥90

Driver code: LHGDDDEHERBL150.





Street lights



New generation energy saving and Environment-friendly long life LED street lights made up of pressure die-cast aluminium housing with high power LED as lighting source and lens embedded PC cover having TOP Opening seperate driver compartment with IP65 protection and impact resistance of IK07.

ENDURA PEARL

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp t_a : 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistance, separate optical and control gear compartment & top opening for easy maintenance.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W.

Optics

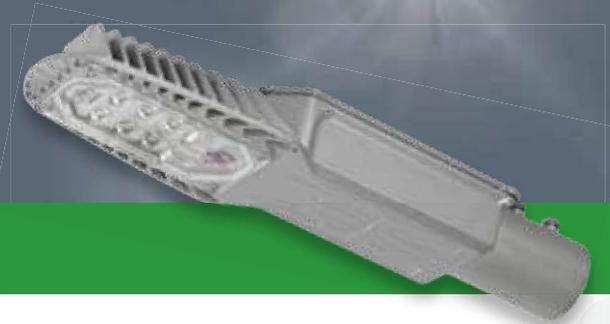
High efficiency polycarbonate UV stabilized cover with integrated Lens to ensure Asymmetrical batwing light distribution.

Electronic Driver

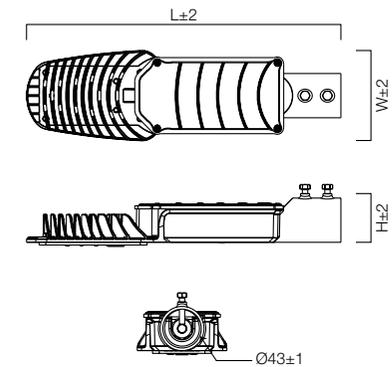
Powered by integral, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for side entry, pole mounting with bracket arm OD 35mm-42mm. Recommended mounting height with suitable inground reinforcement is 3-5 mtr.



TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
351	100	54	43

All dimensions are in mm
Tolerance: ± 2 mm

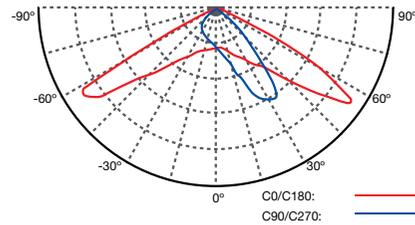
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation
- Urban landscaping



Green LED | 15/20/25W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETBXU7IA6S015	15W	240	≥70	≥0.95	1620	5700K	≥108
LHETBXU7PA6S020	20W	240	≥70	≥0.95	2160	5700K	≥108
LHETBXU7PA6S025	25W	240	≥70	≥0.95	2550	5700K	≥100

Driver code: LSCELDLX0093 for 15W, LSCELDLX0088 for 20W, LSCELDLX0089 for 25W.

IS 15885 (Part 2/Sec 13)



R-84000566



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

Energy saving and Environment-friendly long life LED street lights made up of pressure die-cast aluminium housing with acrylic cover as diffuser with IP66 protection and Impact resistance of IK07.

ENDURA CITYLITE PLATINUM

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp t_a : 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated metallic silver finish after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

Tempered protective custom moulded polycarbonate diffuser, thermal, shock and impact-resistant, (IK-08) fixed to the housing by SS screws.

Electronic Driver

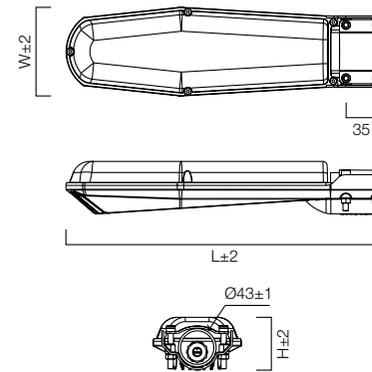
Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 35-42mm. Recommended mounting height with suitable inground reinforcement is 3-6 mtr.



TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
360	100	60	43

All dimensions are in mm
Tolerance: ± 2 mm

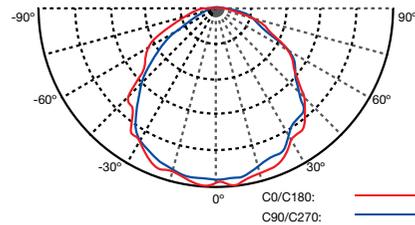
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 15/20/25/30W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEBP7PL6S015	15W	240	≥70	≥0.95	1575	5700K	≥105
LHEWEBP7PL6S020	20W	240	≥70	≥0.95	2100	5700K	≥105
LHEWEBP7PL6S025	25W	240	≥70	≥0.95	2500	5700K	≥100
LHEWEBP7PL6S030	30W	240	≥70	≥0.95	3300	5700K	≥110

Driver code: LSCELDOX0063 for 15W, LSCELDOX0064 for 20W, LSCELDOX0048 for 25W, LSCELDOX0065 for 30W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

LED streetlights made up of pressure die-cast housing with toughened glass and individual high power LEDs with secondary optics, IP65 protection and impact resistance of IK07.

ENDURA CITYLITE PLATINUM TGL

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated metallic silver finish after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

Tempered protective toughened glass, thermal, shock and impact-resistant, (IK-07) fixed to the housing with cast aluminum toggles.

Electronic Driver

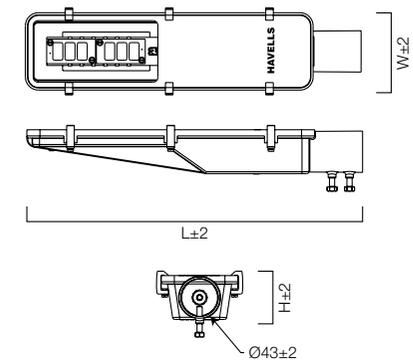
Powered by integral, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for side entry, pole mounting with bracket arm OD 35mm-42mm. Recommended mounting height with suitable inground reinforcement is 3-5 mtr.



TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
385	88	60	43

All dimensions are in mm
Tolerance: ± 2 mm

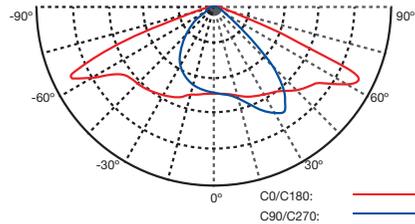
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 15/20/25W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETAXU7PA6S015	15W	240	≥70	≥0.95	1500	5700K	≥100
LHETAXU7PA6S020	20W	240	≥70	≥0.95	2000	5700K	≥100
LHETAXU7PA6S025	25W	240	≥70	≥0.95	2500	5700K	≥100

Driver code: LSCELDLX0064 for 15W, LSCELDX0083 for 20W, LSCELDX0146 for 25W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

LED streetlights made up of pressure die-cast housing with toughened glass and individual high power LEDs with secondary optics, IP66 protection and impact resistance of IK07.



ENDURA CITYLINER NEO

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

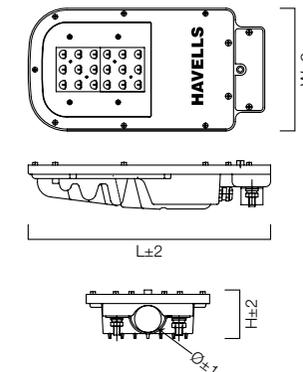
Electronic Driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 36mm (max). Recommended mounting height with suitable inground reinforcement is 4-6 mtr.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
322	160	66	36

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

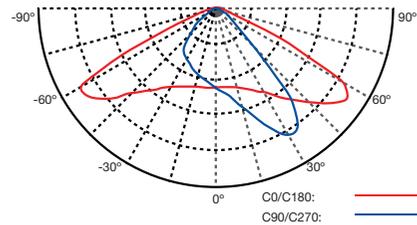
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 45/48W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETAXU7PN6J045	45W	240	≥70	≥0.95	4500	5700K	≥100
LHETAXU7PN6W048	48W	240	≥70	≥0.95	4800	5700K	≥100

Driver code: LHGDBDEDGRAL045 for 45W, LHGDRDEBGRAL048 for 48W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

LED streetlights made up of pressure die-cast housing with toughened glass and individual high power LEDs with secondary optics, IP66 protection, impact resistance of IK07 & 10 KV external SPD.

ENDURA CITYLINER NEO PLUS

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

Electronic Driver

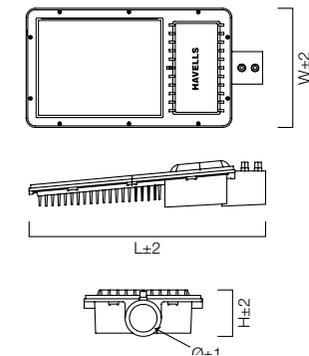
Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection with external SPD (10kV) & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 35-42mm. Recommended mounting height with suitable inground reinforcement is 4-6 mtr.



TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
340	135	70	43

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

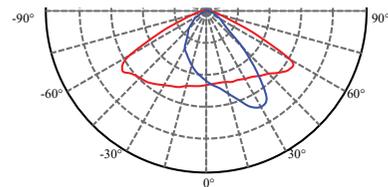
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 48W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETAXU7PA6W048	48W	240	≥80	≥0.95	4560	5700K	≥95

Driver code: LSCELD0X0137.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

New generation energy saving & Environment-friendly long life versatile pressure die-cast aluminium IP66 roadway luminaires with high power LED as light source.



ENDURA CITYLINER NEO 90W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

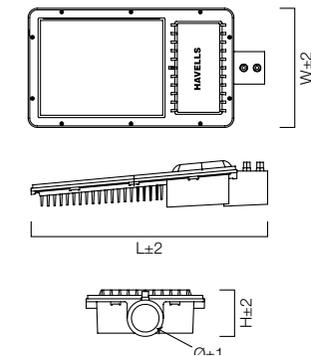
Electronic Driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 50mm (max). Recommended mounting height with suitable inground reinforcement is 8-9 mtr.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
462	231	85	54

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

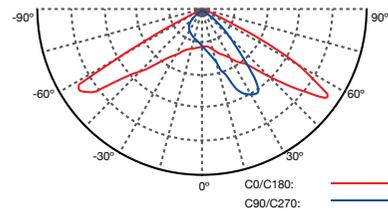
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 90W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETBXU7PN6J090	90W	240	≥70	≥0.95	9000	5700K	≥100

Driver code: LSCELD0X0236.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

New generation energy saving & Environment-friendly long life Versatile pressure die-cast aluminium IP66 roadway luminaire with high power LED as light source.



ENDURA CITYLINER NEO N 120W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

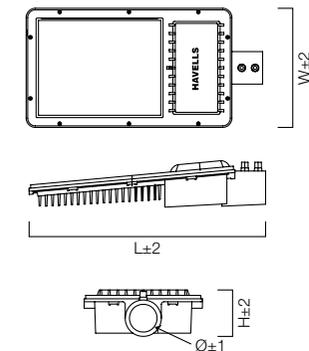
Electronic Driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 50mm (max). Recommended mounting height with suitable inground reinforcement is 9-10 mtr.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
517	258	88	54

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

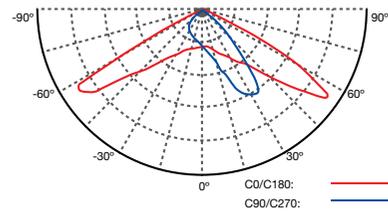
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 120W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETAXU7PA6J120	120W	240	≥70	≥0.95	12000	5700K	≥100

Driver code: LSSCRX1874.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

LED streetlights made up of pressure die-cast housing with toughened glass and individual high power LEDs with secondary optics, IP66 protection and impact resistance of IK07.



ENDURA PULSE 60/70/80/90W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated siemens grey after phosphochromate treatment.

Light source

High efficiency long life LED chip in modules with lumen efficacy of ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

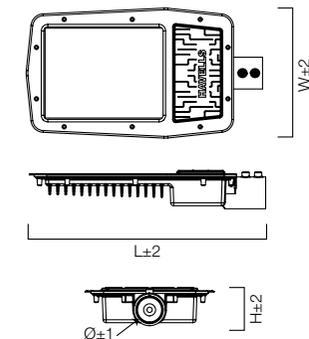
Electronic Driver

Built-in potted electronic LED driver with APFC (SMPS based constant current supply), lower THD, Open Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for side entry, pole mounting with bracket arm OD 40mm-60mm. Recommended mounting height with suitable inground reinforcement is 6-8 mtr for 60/70/80W & 8-10 mtr for 90W.

TECHNICAL DRAWING



System Power	Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
60W/70W	398	208	75	54
80W/90W	473	258	76	54

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

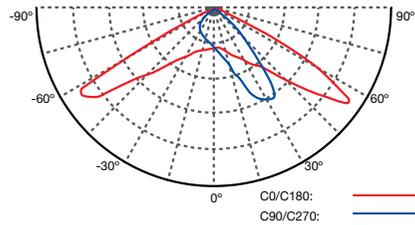
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 60/70/80/90W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETBXU7PA6J060	60W	240	≥70	≥0.95	6000	5700K	≥100
LHETBXU7PA6J070	70W	240	≥70	≥0.95	7000	5700K	≥100
LHETBXU7PA6J080	80W	240	≥70	≥0.95	8000	5700K	≥100
LHETBXU7PA6J090	90W	240	≥70	≥0.95	9000	5700K	≥100

Driver code: LSSLOX0133 for 60/70W, LSSLOX0126 for 80/90W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

LED streetlights made up of pressure die-cast housing with toughened glass and individual high power LEDs with secondary optics, IP66 protection and impact resistance of IK07.



ENDURA PULSE 135/150/170/200W

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish

Epoxy powder coated siemens grey after phosphochromate treatment.

Light source

High efficiency long life LED chip in modules with lumen efficacy of ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

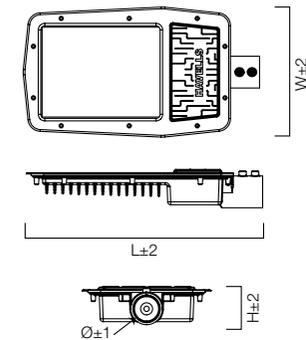
Electronic Driver

Built-in potted electronic LED driver with APFC (SMPS based constant current supply), lower THD, Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for side entry, pole mounting with bracket arm OD 40mm-60mm. Recommended mounting height with suitable inground reinforcement is 9-12 mtr.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
606	327	90	63

Mounting Holes Distance : D

All dimensions are in mm

Tolerance: ± 2 mm

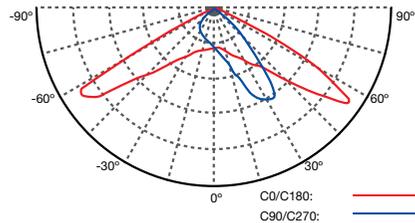
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting



Green LED | 135/150/170/200W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETBXU7PA6J135	135W	240	≥70	≥0.95	13500	5700K	≥100
LHETBXU7PA6J150	150W	240	≥70	≥0.95	15000	5700K	≥100
LHETBXU7PA6J170	170W	240	≥70	≥0.95	17000	5700K	≥100
LHETBXU7PA6J200	200W	240	≥70	≥0.95	20000	5700K	≥100

Driver code: LSSLOX0135 for 135/150W, LSSLOX0136 for 170/200W.

Dimmable version (1-10V) of Driver is available for 170/200W & is available on request for 135/150W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

Aesthetically designed pressure die-cast aluminium housing with toughened glass with individual high power LEDs with secondary optics having TOP Opening/accessible driver compartment having IP66 protection and impact resistance of IK07.

ENDURA CITYLINER UBER



PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp t_a : 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistance, separate optical and control gear compartment & top opening for easy maintenance.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

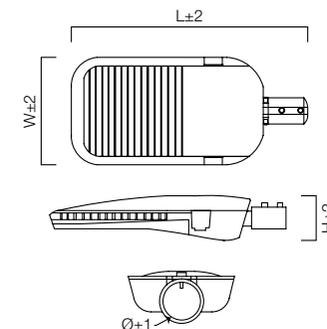
Electronic Driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open Circuit protection, Over Voltage protection, Phase to Phase protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 62mm (max). Recommended mounting height with suitable inground reinforcement is 8-10 mtr for 90W & 10-12 mtr for 120W.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
657	293	158	65

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

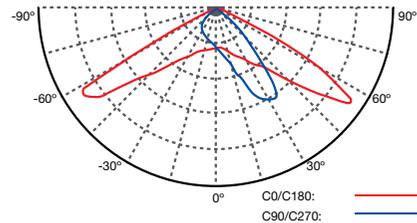
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting
- Car parking application



Green LED | 90/120W | Life 50000hrs | HighEfficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEWEBP7PN6H090	90W	240	≥70	≥0.95	9000	5700K	≥100
LHEWEBP7PN6H120	120W	240	≥70	≥0.95	12000	5700K	≥100

Driver code: LSSCRX1870 for 90W, LSSCRX1873 for 120W.



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

Aesthetically designed pressure die-cast aluminium housing with toughened glass with individual high power LEDs with secondary optics having TOP Opening/accessible driver compartment having IP66 protection and impact resistance of IK07.



UBER PLUS

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp t_a : 35° C
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 50000 hours

Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistance, separate optical and control gear compartment & top opening for easy maintenance.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover

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

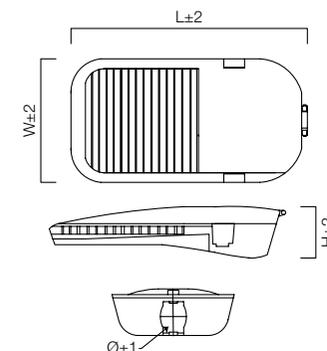
Electronic Driver

Powered by built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with bracket arm OD of 62mm (max). Recommended mounting height with suitable inground reinforcement is 10-12 mtr.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Mounting Bracket Dia (Ø)
798	364	110	65

Mounting Holes Distance : D
All dimensions are in mm
Tolerance: ± 2 mm

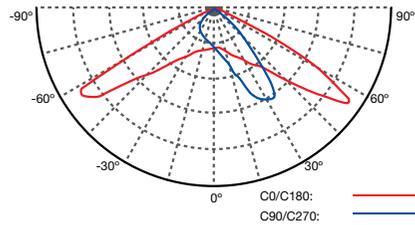
APPLICATIONS

- City road lighting
- Shopping center perimeter lighting
- City lighting renovation/ up-gradation project
- Prestigious/ heritage area outdoor lighting
- Car parking application



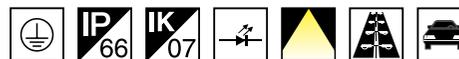
Green LED | 210/255W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHETBXU7PA6A210	210W	240	≥70	≥0.95	21000	5700K	≥100
LHETBXU7PA6A255	255W	240	≥70	≥0.95	25500	5700K	≥100



Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.



Landscape Lighting



Design from the renaissance era yet with a modern look using new generation technology in LED to enliven your outdoor areas in perfect synchronisation with functionality and aesthetics. Family of post-top lanterns designed to compliment the geometry of the area.



VICTORIA

POST-TOP LANTERNS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Elegantly designed die-cast aluminum housing, extruded aluminum (heat sink) for efficient thermal management, sturdiness and excellent corrosion resistance. Al. canopy with PMMA opal

cap is provided at the top to enhance the aesthetic of the fixture. Four nos. die-cast aluminum arms are provided to support the housing.

Finish

Epoxy powder coated black after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

Multiple PMMA PC lense type III are provided to achieve wide and symmetrical light distribution.

Cover

Tempered protective toughened glass thermal, shock resistant and impact-resistant, (IK-07) fixed to the housing.

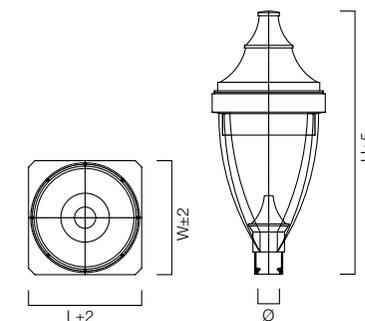
Electronic Driver

Powered by built-in, isolated electronic LED driver in ABS housing mounted on MS plate with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with OD of $\varnothing 70$ mm with 4 nos. SS Hex bolt M8X18 screws.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)	Pole Dia (D)
400	400	920	76

All dimensions are in mm
Tolerance: ± 2 mm

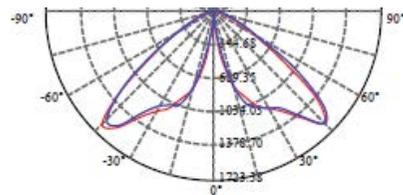
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens/parks



Green LED | 40W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEVAHP7PN6J040	40W	240	≥70	≥0.95	3200	6500K	≥80

Driver Code: LSSLOW0109.



New generation, energy saving, environmental-friendly, long life aesthetically designed die-cast aluminium landscape luminaires with high power LED as light source.



SAPHIRE

LED POST-TOP LANTERNS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Elegantly designed die-cast aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Three nos. die-cast aluminum arms are provided to support the housing.

Finish

Epoxy powder coated grey after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

Pattern clear PC provided to achieve wide and symmetrical light distribution.

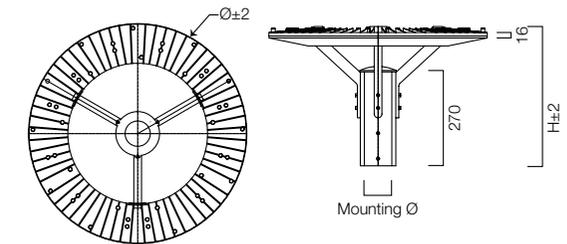
Electronic Driver

Powered by built-in, isolated electronic LED driver in metal housing with IP67 protection mounted on MS plate with APFC (SMPS based constant current supply), lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/ Sec 13.

Mounting

Suitable for pole mounting with OD of $\varnothing 76$ mm with 6 nos. SS allen screws M4X16.

TECHNICAL DRAWING



Outer Dia (Ø)	Height (H)	Pole Dia (D)
615	400	76

All dimensions are in mm
Tolerance: ± 2 mm

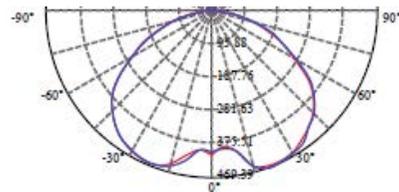
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens/parks



Green LED | 60W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEVAHP7PN6J060	60W	240	≥70	≥0.95	4800	5700K	≥80



New generation, post-top, energy saving, environmental-friendly, long life aesthetically designed with good indirect symmetrical light distribution, die-cast aluminium landscape IP65 luminaires with high power COB LED as light source.



ENDURA SPRING 6

LED POST-TOP LANTERNS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Housing is made up of die-cast aluminium for efficient thermal management, sturdiness and excellent corrosion resistance.

Finish

Epoxy powder coated black after phosphochromate treatment.

Light source

High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics

Epoxy powder coated black outside & white inside aluminum sheet top cover of the housing, supported by 3 Nos. die-cast Al. arms. The inner white portion act as a reflector for indirect symmetrical light distribution.

Cover

Toughened glass is provided above the COB to enhance the lumen output.

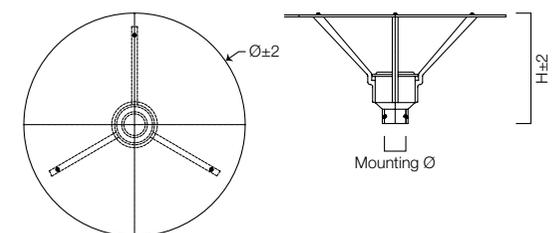
Electronic Driver

Powered by built-in, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply), lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with OD of 70 mm max with 3 nos. allen grub screw provided with the fixture.

TECHNICAL DRAWING



Outer Dia (Ø)	Height (H)	Pole Dia (D)
800	382	76

All dimensions are in mm
Tolerance: ± 2 mm

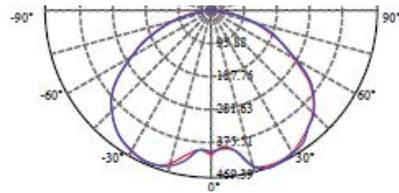
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens/parks



Green LED | 35W | Life 50000hrs | High Efficiency

POLAR PLOT



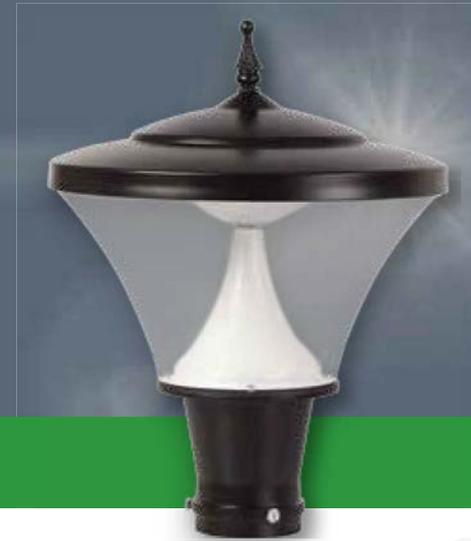
TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLC19145099	35W	240	≥80	≥0.95	1475	4000K	≥40
LHLC18145099	35W	240	≥80	≥0.95	1650	6500K	≥45

Driver Code: LSSLOW0061.



New generation, post-top, energy saving, environmental-friendly, long life aesthetically designed with symmetrical light distribution, die-cast aluminium landscape luminaires with high power LED as light source.



RUBY

LED POST-TOP LANTERNS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Die-cast aluminum spigot for mounting LED driver and spun aluminum canopy which is painted white inside.

Finish

Epoxy powder coated matt black finish after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W and viewing angle of 116° to ensure better uniformity.

Cover

High quality polycarbonate cover is used over LED module to enhance the lumen output & clear acrylic diffuser is used to provide overall glare-free light.

Electronic Driver

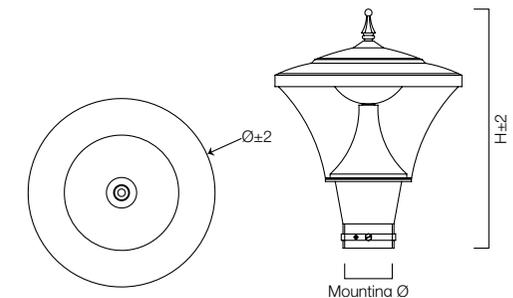
Powered by integral, isolated electronic LED driver in ABS housing with APFC

(SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with OD of 70 mm max with 3 nos. hexa screw 1/4"x20 mm provided with the fixture.

TECHNICAL DRAWING



Outer Dia (Ø)	Height (H)	Pole Dia (D)
329	418	76

All dimensions are in mm
Tolerance: ± 2 mm

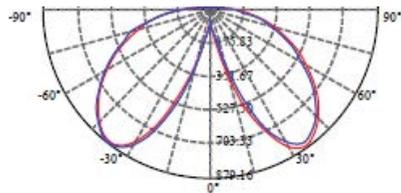
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens/parks



Green LED | 25/40W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEVBGP7PN6K025	25W	240	≥70	≥0.95	2250	5700K	≥90
LHEVBGP7PN6K040	40W	240	≥70	≥0.95	3600	5700K	≥90

Driver code: LSSLOW0119 for 25W, LSSLOW0110 for 40W.



New generation, post-top, energy saving, environmental-friendly, long life aesthetically designed with symmetrical light distribution, spun aluminium landscape luminaires with high power LEDs as light source.



CORAL

LED POST-TOP LANTERNS

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Die-cast aluminum spigot for mounting LED driver and spun aluminum canopy which is painted white inside.

Finish

Epoxy powder coated matt black finish after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 140 lm/W and viewing angle of 116° to ensure better uniformity.

Cover

High quality polycarbonate cover is used over LED module to enhance the lumen output & opal acrylic diffuser is used to provide overall glare-free light.

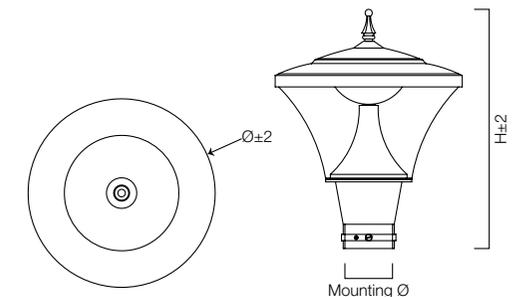
Electronic Driver

Powered by integral, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Suitable for pole mounting with OD of 70 mm max with 3 nos. hexa screw $\frac{1}{4}$ "x20 mm provided with the fixture.

TECHNICAL DRAWING



Outer Dia (Ø)	Height (H)	Pole Dia (D)
329	418	76

All dimensions are in mm
Tolerance: ± 2 mm

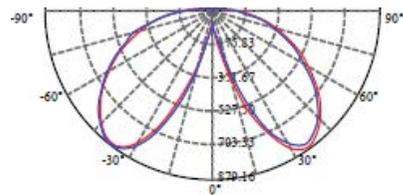
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens/parks



Green **LED** | **25/40W** | Life **50000hrs** | **High**Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEVBHP7PN6K025	25W	240	≥70	≥0.95	1625	5700K	≥65
LHEVBHP7PN6K040	40W	240	≥70	≥0.95	2600	5700K	≥65

Driver code: LSSLOWO119 for 25W, LSSLOW0110 for 40W.



New generation, energy saving, environmental-friendly, long life aesthetically designed die-cast aluminium landscape luminaires for downward lighting with high power LED as light source.



MUSHROOM

BOLLARD

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Housing is made up of die-cast aluminium designed in dome shape to enhance the aesthetic appearance of the fixture for efficient thermal management, sturdiness and excellent corrosion resistance with aluminium pipe. Mounting flange is made up of cast iron.

Finish

Epoxy powder coated black after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W.

Optic

High quality polycarbonate clear lens with beam angle of 45° to enhance the lumen output and better light distribution.

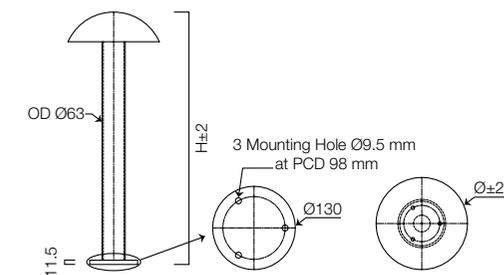
Electronic Driver

Powered by built-in, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Fixed to ground by means of 3 nos. grounding bolts of Ø8 mm (max) recommended.

TECHNICAL DRAWING



Outer Dia (Ø)	Height (H)
248	680

All dimensions are in mm
Tolerance: ± 2 mm

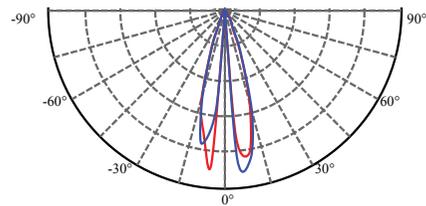
APPLICATIONS

- Lawns
- Gardens
- Pathways
- Courtyards
- Decorative porch lighting



Green LED | 16W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHLC17145099	16W	240	≥70	≥0.95	600	3000K	≥35
LHLC16145099	16W	240	≥70	≥0.95	650	5700K	≥40

Driver code: LHGDADAFCCA1015.

IS 15885 (Part 2/Sec 13)



New generation, energy saving, environmental-friendly, long life aesthetically designed aluminium landscape luminaires for diffused lighting with high power LED as light source.

BAMBOO

BOLLARD

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Housing made up of aluminum pipe powder coated black after phosphochromate treatment with aluminum heat sink for effective thermal management, sturdiness & excellent corrosion resistance. Mounting flange of MS sand casting is used at the bottom.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W.

Cover

PC diffuser in opal finish is used for glare-free uniform light distribution.

Electronic driver

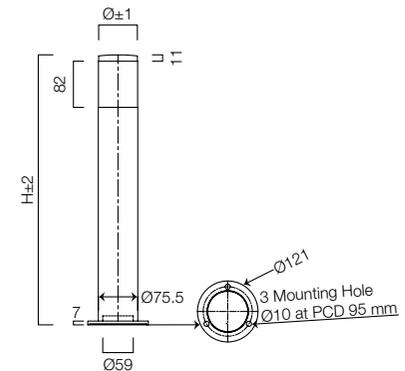
Powered by built-in, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Fixed to ground by means of 3 nos. M10 bolts (max).



TECHNICAL DRAWING



Ordering Code	Dia (Ø)	Height (H)
LHEVBDP6IN6K008	74	500
LHEVBDP7IN6K008	74	500
LHENAXP7PZ6K008	74	1000

All dimensions are in mm
Tolerance: ± 2 mm

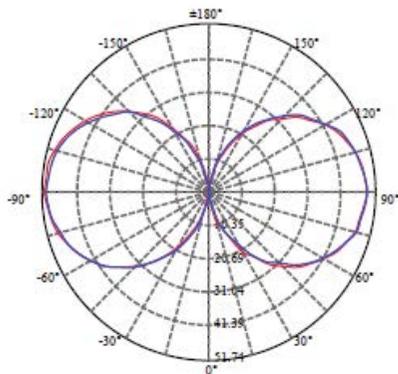
APPLICATIONS

- Lawns
- Gardens
- Pathways
- Courtyards
- Decorative porch lighting
- Parks & Plazas



Green LED | 8W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEVBDP6IN6K008	8W	240	≥80	≥0.95	400	4000K	≥50
LHEVBDP7IN6K008	8W	240	≥80	≥0.95	440	5000K	≥55
LHENAXP7PZ6K008	8W	240	≥80	≥0.95	470	5700K	≥58

Driver code: LSSCRX1464.

IS 15885 (Part 2/Sec 13)



Cone series act as an imposing street furniture. The elegant yet minimalistic design acts a silent observer and giving light; diffuser at the upper portion acts a beacon of path guidance in a landscape environment.

CONE

BOLLARD

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing & Finish

Housing made up of aluminum pipe powder coated black after phosphochromate treatment with aluminum heat sink for effective thermal management, sturdiness & excellent corrosion resistance. Mounting flange of MS sand casting is used at the bottom.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W.

Cover

PC diffuser in opal finish is used for glare-free uniform light distribution.

Electronic driver

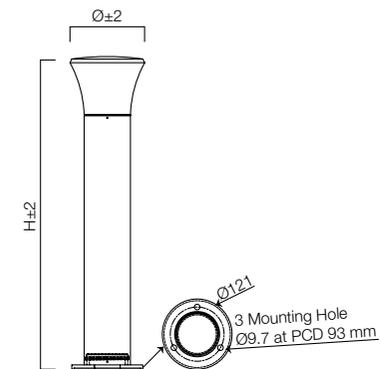
Powered by built-in, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Fixed to ground by means of 3 nos. M10 bolts (max).



TECHNICAL DRAWING



Dia (\varnothing)	Height (H)
121	505

All dimensions are in mm
Tolerance: ± 2 mm

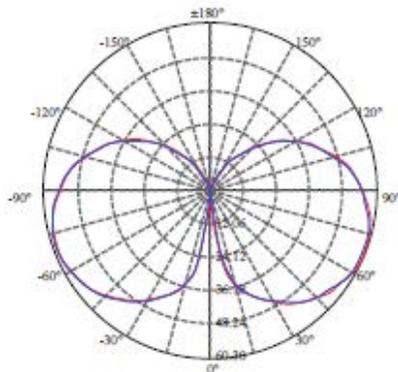
APPLICATIONS

- Lawns
- Gardens
- Pathways
- Courtyards
- Decorative porch lighting
- Parks & Plazas



Green LED | 8W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHENABP6IZ6K008	8W	240	≥80	≥0.95	400	3000K	≥50
LHENABP7IZ6K008	8W	240	≥80	≥0.95	470	5700K	≥58

Driver code: LSSCRX1464.

IS 15885 (Part 2/Sec 13)



Environmental-friendly, ultra modern, energy saving, surface mounted, decorative oval bulk head edge-lit LED luminaires comprising of high brightness LEDs.



ENDURA RUGBY NEO

PATHWAYS LIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

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

Housing

Oval shaped pressure die-cast aluminium housing & ring for sturdiness & corrosion resistance.

Finish

Epoxy powder coated white after phosphochromate treatment.

Light source

High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W.

Cover

High quality polycarbonate diffuser in opal finish for glare-free light distribution.

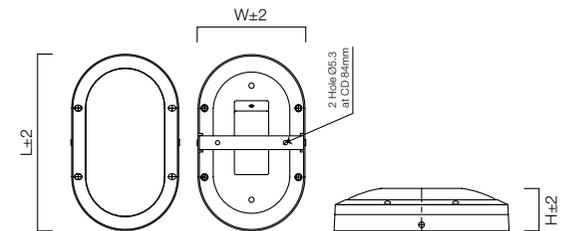
Electronic driver

Powered by built-in, isolated electronic LED driver in ABS housing with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Wall/ceiling mounted by means of CRCA lamp with expansion screws provided through $\varnothing 5.3$ mm mounting holes.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)
216	133	52

All dimensions are in mm
Tolerance: ± 2 mm

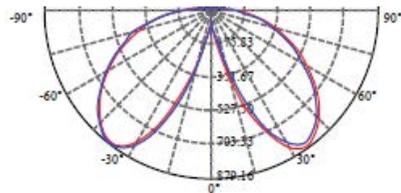
APPLICATIONS

- Passages
- Tunnels
- Pathways lights
- Staircases lightings
- Corridors & lobbies
- Porch lighting



Green LED | 10W | Life 50000hrs | High Efficiency

POLAR PLOT



TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEOAOP7UZ6W010	10W	240	≥80	≥0.95	800	6500K	≥80

Driver code: LSSLOX0130.

IS 10322 (Part 5/Sec 1): 2012



Environmental-friendly, new generation, energy saving, decorative rectangular shaped recessed Luminaires with COB LED as light source.



RADIANT

PATHWAYS LIGHT

PRODUCT SPECIFICATIONS

Features & Benefits

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70B_{50}}$: 30000 hours

Housing

Pressure die-cast aluminium housing for sturdiness, excellent corrosion resistance and efficient thermal management. Silver finish front grill is designed to provide glare-free downward lighting.

Light source

High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED ≥ 130 lm/W & viewing angle of 120° to ensure better uniformity of light distribution.

Cover

Toughened glass is provided below front grill for maintaining ingress protection.

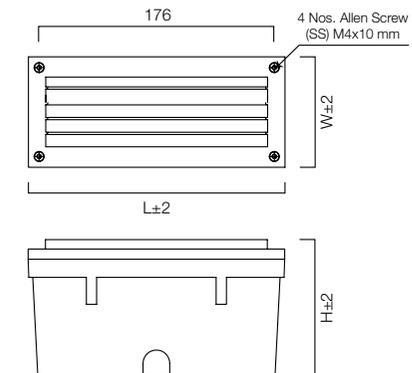
Electronic driver

Powered by built-in electronic LED driver with APFC (SMPS based constant current supply) with Output Short / Open Circuit protection, Over Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13.

Mounting

Fixed into wall as per instructions sheet provided with fixture.

TECHNICAL DRAWING



Length (L)	Width (W)	Height (H)
192	82	101

All dimensions are in mm
Tolerance: ± 2 mm

APPLICATIONS

- Pathways
- Staircases
- Corridors



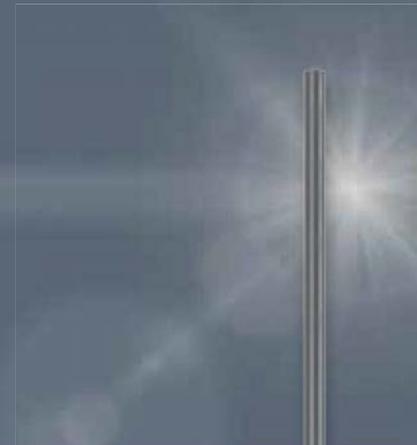
Green LED | 8W | Life 30000hrs | High Efficiency

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	CRI	Power Factor	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHESABPBUN6E008	8W	240	≥70	≥0.50	200	3000K	≥25



Aesthetically designed decorative hot-dipped galvanised mild steel step pole with grey powder finish. Compatible for all Havells post-top range.



POLES

PRODUCT SPECIFICATIONS

Housing

Hot-dipped galvanized mild steel step pole. Elliptical Aluminum sheet with HAVELLS in grey color is riveted to the pole. Standard height of 3.5 & 6 mtr.

Finish

Grey UV stabilized pure polyester coating after hot-dipped galvanizing.

Window

Plasma cut & duly chamfered opening window of 300x110 mm for terminal connections & mounting accessories. Window cover is fitted with allen screws to the pole.

Mounting base

Mild steel base plate of Ø 268 mm with 4 no. elliptical holes of 20x42 mm on 210 mm PCD suitable for M12 bolts.



3.5 Mtr

6 Mtr

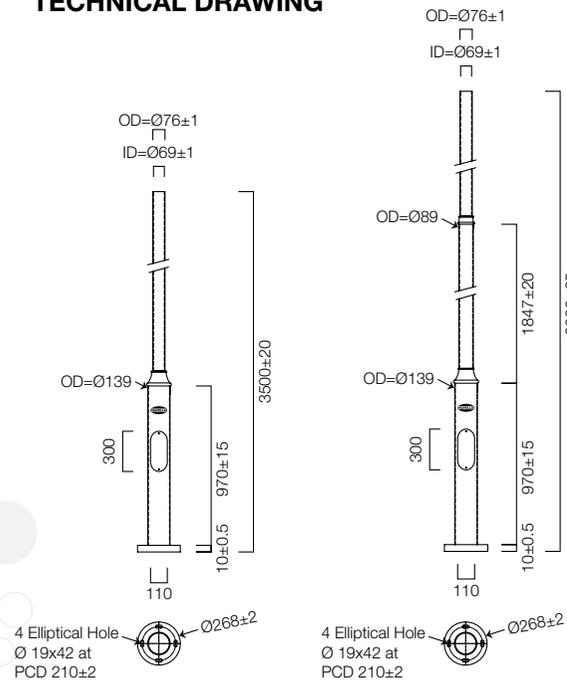
APPLICATIONS

- City avenues
- Shopping malls
- Heritage buildings
- Public gardens & parks



POLES | 3.5/6.0 Mtr.

TECHNICAL DRAWING



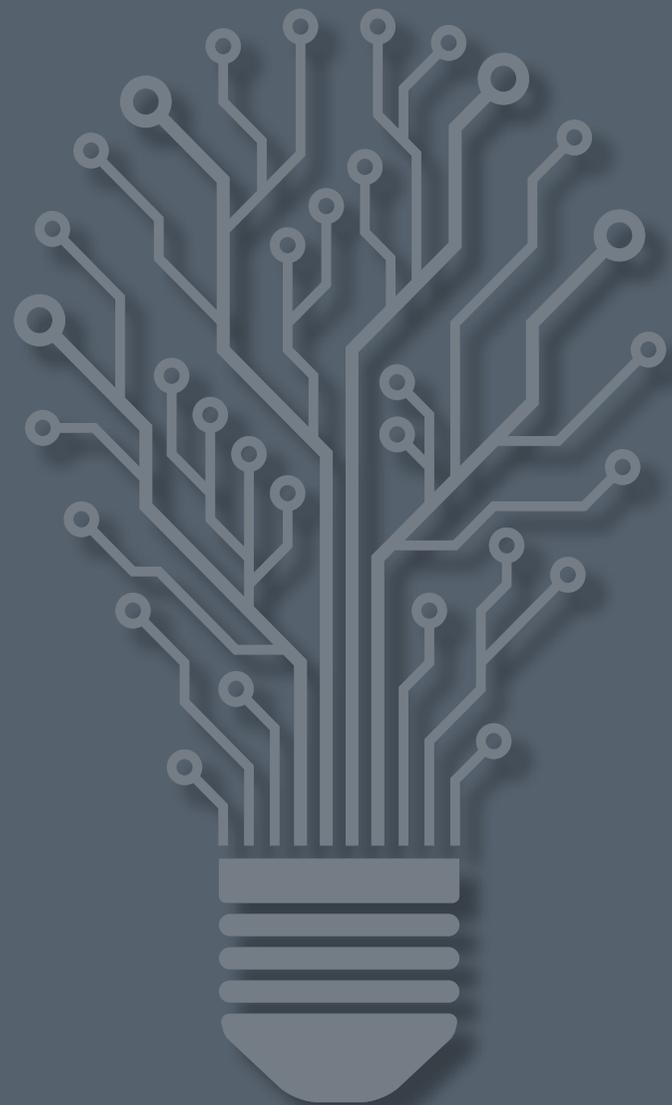
TECHNICAL DATA

Ordering Code	Length (in mtr)	OD (in mm)
LHMP02135099	3.5	76
LHMP02106099	6.0	76





Technical Info



Ballast lumen factor BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

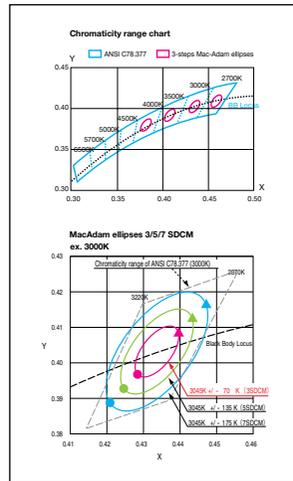
Beam Angle

Indicates how broadly the light is emitted from a reflector lamp. It can be thought of as an imaginary cone whose apex intersects the lamp face, and the breadth of the cone extends outwards to the point where luminous intensity has diminished to 50% of the centre beam value.

Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences.

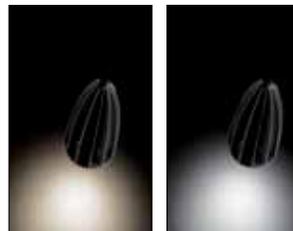


Candela (cd)

The unit of measurement for luminous intensity, which refers to the quantity of light emitted in a particular direction. The symbol is cd.

Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.

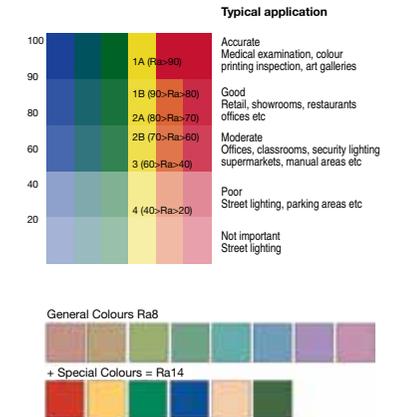


Warm White 3000K Neutral White 4000K

Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

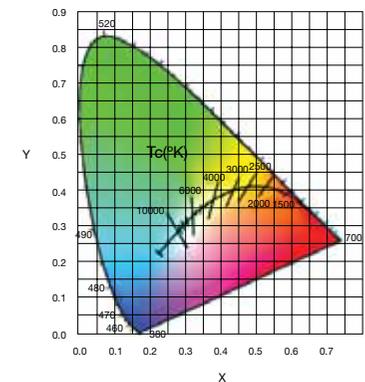
The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.



Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1850K. Therefore higher colour temperatures (5000K more) are called cool colours (blueish white); lower colour temperatures (2700 – 3000K) are called warm colours (yellowish white through red).



The Planckian locus shows the chromaticities of black-body light sources of various colour temperatures and lines of constant correlated colour temperature shown within the CIE chromaticity diagram

Technical information

Dimmability

The Havells lamps range includes Dimmable LEDs lamps. Most conventional dimmers have been designed for incandescent lamps and are therefore rated for higher minimum loads (W) than LED lamps consume. There may therefore be some restrictions in terms of functionality of dimmers with individual LEDs – but when more than one lamp is used to increase the total loading, dimming becomes easier. For full list of dimmer compatibility, please consult your local salesforce.

Drivers

Electronic devices that transform the high mains voltage into a constant current lower voltage for operating the LEDs. A miniature electronic driver is contained inside the base of each Havells LED lamp.

Glare

Discomfort glare is due to a high contrast between the source of light and the task. It is for that reason that luminance values are limited for certain tasks.

Heat Sink

A device used to conduct heat away from the LED sources and dissipate it to the surrounding air. The more efficiently an LED is cooled the greater its efficacy, light output and lifetime. Materials having excellent thermal properties and optimised cooling fin geometries are engineered into Havells lamps and luminaires to deliver the pinnacle of performance.

Infrared (IR) Radiation

Comprises electromagnetic waves in the spectral range between visible light and microwaves, which produce a heating effect when absorbed by materials. All lamps and luminaires produce infrared radiation, but the quantity emitted by LEDs is far lower than other technologies and this makes them ideal for reducing air conditioning load, as well as for the illumination of heat-sensitive goods.

Illuminance

This definition determines the amount of light that covers a surface. If Φ is the luminous flux and S is the area of the given surface then the illuminance E is determined by $E=\Phi/S$. The unit of illumination in SI system is lx, and in foot-pound system it is foot-candle. One lx is the illuminance of 1 m² surface area uniformly lighted by 1 lm of luminous flux.

Junction Temperature (Tj)

The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

LED (Light Emitting Diode)

The semiconductor in the LEDs we provide emits blue light. The colour of the light ultimately depends on the phosphors used on the surface of the LED or lens.

Lens

An optical component having two refractive surfaces, at least one of which is either convex or concave. In LED lamps the function of a lens is to focus or disperse the light rays to achieve the desired beam angle or light distribution pattern.

Lifetime

LED lamps can have extremely long lives, however their light output diminishes as they age. They can carry on working until they are emitting less than 10% of their initial light output, but with so little light left they would be practically useless. Havells defines the lifetime of its LED lamps the same way as for other lamps: i.e. the burning hours until the light output has decreased to 70% of the initial value, or when 50% of a group of lamps will have failed – whichever is the soonest. The International Electrotechnical Commission (IEC) is currently preparing an international standard based on similar threshold values.

Light

Light Electromagnetic radiation with a wavelength between 380-780nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light's is greater than 720nm.

Lighting level

A measure of light falling on a particular point or surface. This unit is measured in lux.

Light output ratio (LOR)

The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

Lumen (lm)

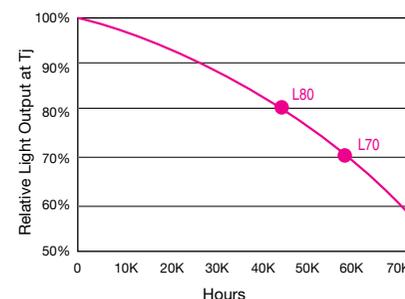
Unit of luminous flux used to describe a quantity of light emitted by a source.

Lumen Maintenance

Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will be the percentage, xx, of its initial light output.

- L80 = Time to 80% lumen maintenance, in hours
- L70 = Time to 70% lumen maintenance, in hours

For LED lamps and luminaires, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.



Technical information

Luminance

The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cd/m²).

Luminous efficacy (lm/w)

Indicates how efficiently a light source converts electrical energy to light.

Luminous flux (lm)

The total light output of a light source measured in lumens.

Luminous intensity (cd)

The power of a source or illuminated surface to emit light in a particular direction, measured in candelas.

Lux (lux)

The unit of illuminance, equal to one lumen per square metre (lm/m²).

Illuminance cone

This shows beam angle and illuminance figures at different heights.

Polar curve

The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. They are absolute values.

Recycling

Havells Havells lamps and luminaires are extremely durable and do not contain any mercury, lead or other toxic metals. However because their drivers contain electronic components they must be disposed of as waste electrical and electronic equipment at the end of their life.

Reflector

An optical component having a reflective surface (the surface could be specular or diffusing depending on the job it is required to do) surface, which captures light rays from the source and bounces them back at a particular angle. Although more commonly used in incandescent and halogen lamps, some Havells LED lamps use reflectors to control their light instead of a lens.

Room index K

An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

$$K = \frac{a \times b}{h \times (a+b)}$$

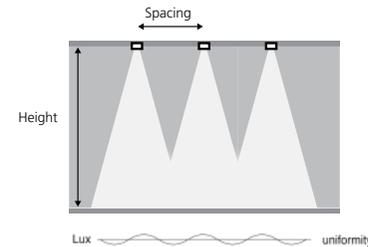
where: a = room length

b = room width

h = height between the luminaire and working surface

Spacing to height ratio (SHR)

Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the distance between the luminaire plane and the horizontal working plane.



Switching Frequency

LED lamps cannot be switched on and off indefinitely, but are rated to tolerate an impressive 60,000 switching cycles or more.

Uniformity ratio of illuminance

This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. It becomes less even as the uniformity decreases. Typically you want 0.7 as a min for most schemes.

Ultra Violet (UV) radiation

Comprises electromagnetic waves in the spectral range between visible light and X-rays, which are invisible to the human eye but essential for all life (delivered via natural sunlight). Small amounts of UV are emitted by many light sources (e.g. Halogen and Discharge) and over time will cause fading of coloured objects being illuminated. Havells Havells lamps and luminaires do not emit any UV radiation.

Utilisation factor

The ratio of the light flux which the reference surface receives to the total luminous flux. This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.

IP Ratings

Ingress protection ratings (IP)

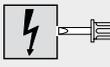
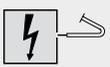
The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers.

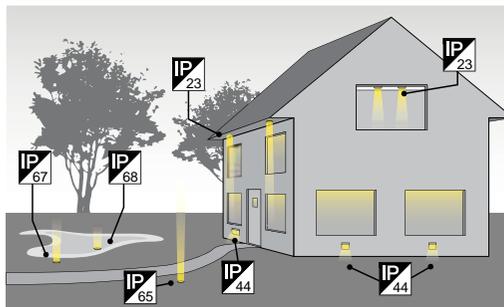
The first number indicates the measure of protection against the ingress of solids. For instance: 

The second number indicates the measure of protection against the ingress of liquids. For instance: 

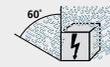
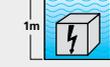
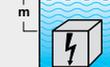
Ingress Protection (IP) Specification Guide

Protection against the ingress of solid objects

IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol
		Protected against solid objects greater than 50mm ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50 mm in diameter.	
		Protected against solid objects greater than 12mm ø	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in diameter.	
		Protected against solid objects greater than 2.5mm ø	Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.	
		Protected against solid objects greater than 1.0mm ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0 mm in diameter.	
		Dust protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	
		Dust tight	No ingress of dust.	



Protection against the ingress of solid objects

IP No.	Example	Protection against contact and ingress of water	Tests	Symbol
		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect	
		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position	
		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect	
		Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect	
		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect	
		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities	
		Protected against the effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time	
		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	

IK ratings

Degree of Impact Protection EN62262.

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

Number	Measure of protection – impact energy (joules)	Test
	No protection to this standard -	
	0.15	0.20 kg impact
	0.20	0.20 kg impact
	0.35	0.20 kg impact
	0.50	0.20 kg impact
	0.70	0.20 kg impact
	1.00	0.50 kg impact from 200mm
	2.00	0.50 kg impact from 400mm
	5.00	1.70 kg impact from 295mm
	10.00	5.00 kg impact from 200mm
	20.00	5.00 kg impact from 400mm

When higher impact energy protection is required 50 joules is recommended.

Electrical protection

EN60598

-  Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.
-  Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.
-  Class III – Luminaire relies on protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated
-  Horizontal rotation
-  Vertical tilt
-  Ingress protection
-  Impact protection
-  RoHS compliant

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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.



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