HAVELLS

RETAIL & HOSPITALITY

Catalogue 2017

LED

ORG TOWERS
NO ENTRY
ORG
HAVELLS
SYLVANIA
Crabtree

INTRODUCTION OF Havells

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

Today, Havells owns some of the most prestigious brands like Havells, Lloyd, Crabtree, Standard and Promptec. Its network constitutes of 6500 professionals, over 7650 dealers and 40 branches in the country. Our products are available in over 50 countries. The company has twelve state-of-the-art manufacturing plants in India located at Haridwar, Baddi, Sahibabad, Faridabad, Assam, Alwar and Neemrana, manufacturing globally acclaimed products, synonymous with excellence and precision in the electrical industry.

The company pioneered the concept of exclusive brand showroom in the electrical industry with 'Havells Galaxy'. Today over 500 Havells Galaxies across the country are helping customers, both domestic and commercial, to choose from a wide variety of products for different applications. Havells became the first FMEG Company to offer door step service via its initiative 'Havells Connect'. Thanks to the quality of products and quicker service, it has minimum customer complaints and highest customer satisfaction.

Today, Havells 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 offerings are energy efficient and manufactured in-house.

Social and environmental responsibility has been at the forefront of Havells Operating Philosophy and as a result the company consistently contributes to socially responsible activities. For instance, the company is providing mid-day meal in government schools in Alwar district, covering more than 58000 students per day. The group company, QRG Healthcare runs a 140 bed hospital in Faridabad. In the past, the company has generously contributed to the society during various national calamities like the Bihar Flood, Tsunami and Kargil National Relief Fund, etc.

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

Neemrana Lighting Plant

Advanced Technology Cutting Machine

Italian Robotised Box Bending Machines

Dedicated Product Assembly lines

Havells State of the art Luminaire Plant, Neemrana

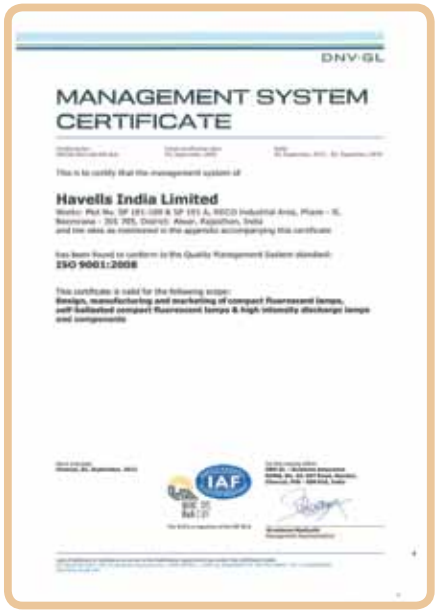
CERTIFICATIONS

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited

OHSAS 18001:2007


DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited

ISO 9001:2008

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited

ISO 50001:2011

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

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.

WELCOME TO HAVELLS RETAIL & HOSPITALITY LIGHTING

At Havells we have always believed that Light is the Fourth Dimension of Architecture. However, apart from necessary or required lighting, there are a host of possibilities of creating architecture with light. Light can divide and structure rooms. Light can guide and direct. Light can emphasize and present architecture. We intend our luminaries to be a perfect tool in design with light.

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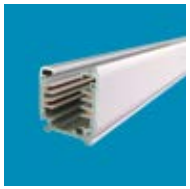

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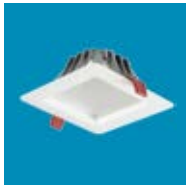

Maestro Square
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Track Spots

CYLINDRO

PRODUCT SPECIFICATIONS

Housing & Finish : Pressure Die-cast Aluminium housing (heat sink) with powder coated white and Black finish.

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

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

Electronic Driver : Powered by a built-in isolated electronic LED 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 phase +Ground (4 wire track)

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
- Environment-friendly as it does not contain mercury
- Operating voltage range :-140-270V
- Operating temperature: -10° to 45°C
- Average life $L_{70}B_{50}$: 50000 hours

APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- MUSEUMS
- AIRPORT LOUNGES

IS 10322 (Part 5/Sec 1): 2012
R-41070416

IS 15885 (Part 2/Sec 13)
R-41068888

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	Beam Angle	Finish	CRI	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEEAWPBIG1W015	15W	240	24°	White	≥80	1500	3000K	≥100
LHEEAWPBIH1W015	15W	240	38°	White	≥80	1500	3000K	≥100
LHEEAWPDIG1W015	15W	240	24°	White	≥80	1575	4000K	≥105
LHEEAWPDIH1W015	15W	240	38°	White	≥80	1575	4000K	≥105
LHEEAWPFIH1W015	15W	240	38°	White	≥80	1575	6000K	≥105
LHEEAWPBIG1W025	25W	240	24°	White	≥80	2500	3000K	≥100
LHEEAWPBIH1W025	25W	240	38°	White	≥80	2500	3000K	≥100
LHEEAWPDIG1W025	25W	240	24°	White	≥80	2625	4000K	≥105
LHEEAWPDIH1W025	25W	240	38°	White	≥80	2625	4000K	≥105
LHEEAWPFIH1W025	25W	240	38°	White	≥80	2625	6000K	≥105
LHEEAWPBIG1W035	35W	240	24°	White	≥80	3500	3000K	≥100
LHEEAWPBIH1W035	35W	240	38°	White	≥80	3500	3000K	≥100
LHEEAWPDIG1W035	35W	240	24°	White	≥80	3675	4000K	≥105
LHEEAWPDIH1W035	35W	240	38°	White	≥80	3675	4000K	≥105
LHEEAWPBIH1K015	15W	240	38°	Black	≥80	1575	4000K	≥105
LHEEAWPDIH1K015	15W	240	38°	Black	≥80	1575	4000K	≥105
LHEEAWPFIH1K015	15W	240	38°	Black	≥80	1575	6000K	≥105
LHEEAWPBIH1K025	25W	240	38°	Black	≥80	2500	3000K	≥100
LHEEAWPBIG1K025	25W	240	24°	Black	≥80	2500	3000K	≥100
LHEEAWPFIH1K025	25W	240	38°	Black	≥80	2625	4000K	≥105
LHEEAWPDIH1K025	25W	240	38°	Black	≥80	2625	4000K	≥105
LHEEAWPDIG1K025	25W	240	24°	Black	≥80	2625	4000K	≥105

Driver code : LSSLOW0179 for 15W, LSSLOW0180 for 25W, LSSLOW0181 for 35W.

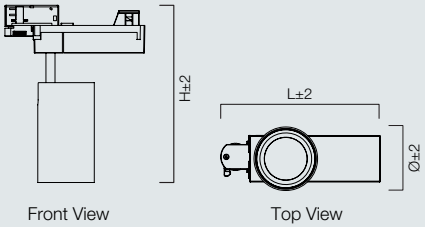
Track and accessories to be ordered separately as mentioned on pg no. 20

CYLINDRO

Track Mounted LED light with modern design, compact size with high power COB LED to provide focused light. Track light is a method of lighting where light fixtures are attached anywhere on a continuous track rail which is electrically charged as compared to the need of routing electrical wiring to individual light position.

LSSLOB0040 for Honeycomb Attachment 15W
LSSLOB0041 for Honeycomb Attachment 25/35W

TECHNICAL DRAWING



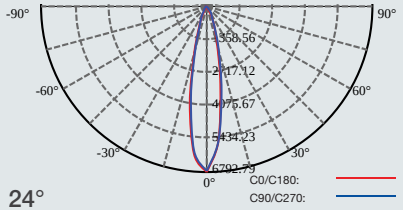
Front View Top View

DIMENSIONS

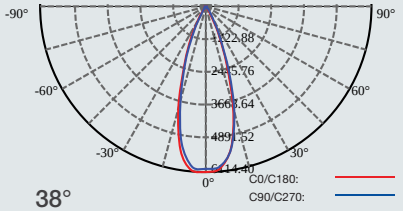
System Power	Dia (Ø)	Length (L)	Height (H)
15W	70	180	212
25W	90	206	248
35W	90	216	258

All dimensions are in mm
Tolerance: ± 2 mm

PHOTOMETRIC DATA



24°



38°

FIO

PRODUCT SPECIFICATIONS

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 facetted 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 tests as per IS:15885 Part 2/Sec 13.
Mounting : Suitable for installation with 3-circuit - 4-wire track.

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
- Environment-friendly as it does not contain mercury
- Operating temperature: -10° to 45°C
- Average life $L_{70}B_{50}$: 35000 hours

APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DATA

Ordering Code	System Power	Voltage (V)	Beam Angle	CRI	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LYEEBZPBPE1W025	25W	240	40°	≥80	2150	3000K	≥86
LHEEBZPBPE1K025	25W	240	40°	≥80	2150	3000K	≥86
LYEEBZPDPE1W025	25W	240	40°	≥80	2200	4000K	≥88
LHEEBZPDPE1K025	25W	240	40°	≥80	2200	4000K	≥88
LYEEBZPBPB1W035	35W	240	40°	≥80	3010	3000K	≥86
LYEEBZPDPB1W035	35W	240	40°	≥80	3080	4000K	≥88

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

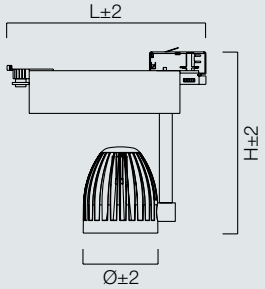
Track and accessories to be ordered separately as mentioned on pg no. 20

FIO

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

IP20 IK03 PF ≥0.9

TECHNICAL DRAWING

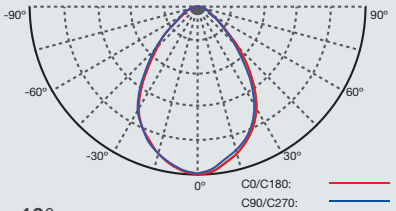


DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

PHOTOMETRIC DATA



40°

IS 15885 (Part 2/Sec 13)
R-75000850

SCUBA

PRODUCT SPECIFICATIONS

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 tests as per IS:15885 Part 2/Sec 13.
Mounting	:	Suitable for installation with 3-circuit - 4-wire track.

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

APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DATA

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

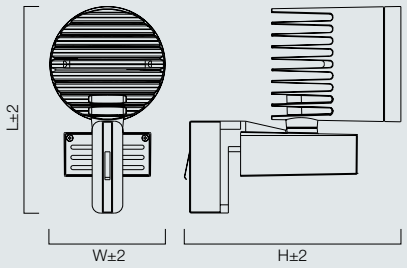
Driver code : LSSLOB0024 for 25W, LSSLOB0025 for 35W.

Track and accessories to be ordered separately as mentioned on pg no. 20

SCUBA

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.

TECHNICAL DRAWING

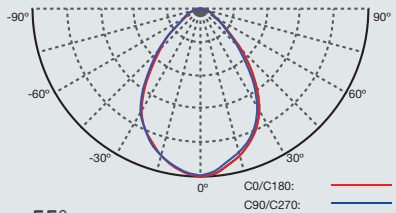


DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

PHOTOMETRIC DATA



55°

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

TRACK & ACCESSORIES

TECHNICAL DATA

Ordering Code	Product Description	Colour
LHFGAANNTN1W000	1 Meter 3 Phase Track	White
LHFGABNNTN1W000	2 Meter 3 Phase Track	White
LHFGAAN1TN1K000	1 Meter 3 Phase Track	Black
LHFGABN2TN1K000	2 Meter 3 Phase Track	Black
LSSLOW0060	I Shaped Connector 3 Phase	White
LSSLOW0058	L Shaped Connector 3 Phase	White
LSSLOB0031	I Shaped Connector 3 Phase	Black
LSSLOB0032	L Shaped Connector 3 Phase	Black
LSSLOX0087	Adjustable Suspension Kit 3 Meter 3 Phase	White

TRACK & ACCESSORIES

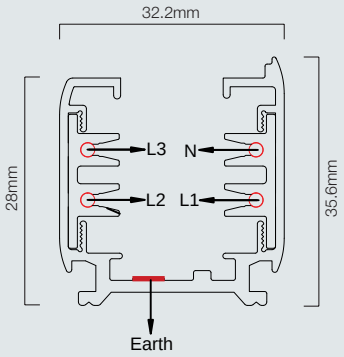
Continuous track rail made of aluminum extrusion with four wire 3-Phase connections. Suitable for track lights with 3-phase adopter only.

I Shaped Connector

L Shaped Connector

Adjustable Suspension Kit

TECHNICAL DRAWING



PRODUCT SPECIFICATIONS

Housing & Finish : Extruded Aluminum powder coated in White/Black Finish
Mounting : Suitable for installation in suspension/Surface mounting

Downlights

SPARKLE PRO FIXED

PRODUCT SPECIFICATIONS

Housing & Finish	: Grey powder coated, elegantly designed pressure die-cast aluminium housing / heat sink for efficient heat dissipation & white finish PDC ring for holding the diffuser.
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	: High purity faceted PC metalized glossy reflector to enhance the lumen output of the fixture.
Diffuser	: High quality PMMA diffuser in clear finish for 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 test as per IS:15885 Part 2/Sec 13.
Mounting	: Fixed into false ceiling with 2 nos MS spring clamps provided with the fixture.

FEATURES & BENEFITS

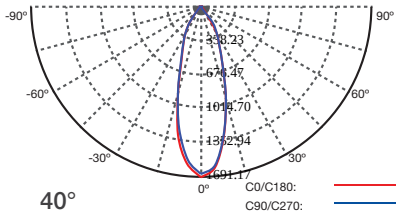
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140-270V
- Average life $L_{70}B_{50}$: 35000 hours

TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY, DETAIL GIVEN BELOW)

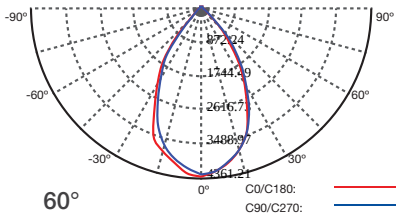
Ordering Code	System Power	Voltage (V)	Beam Angle	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBLUPBIH1W008	8W	240	40°	720	3000K	≥90
LHEBLUPDIH1W008	8W	240	40°	760	4000K	≥95
LHEBLUPFIH1W008	8W	240	40°	800	5700K	≥100
LHEBLUPBII1W012	12W	240	40°	1080	3000K	≥90
LHEBLUPDII1W012	12W	240	40°	1140	4000K	≥95
LHEBLUPFII1W012	12W	240	40°	1200	5700K	≥100
LHEBLUPBIH1W020	20W	240	40°	1800	3000K	≥90
LHEBLUPDIH1W020	20W	240	40°	1900	4000K	≥95
LHEBLUPFIH1W020	20W	240	40°	2000	5700K	≥100
LHEBLUPBIH1W030	30W	240	40°	2700	3000K	≥90
LHEBLUPDIH1W030	30W	240	40°	2850	4000K	≥95
LHEBLUPFIH1W030	30W	240	40°	3000	5700K	≥100
LHEBLUPBIE1W045	45W	240	60°	4050	3000K	≥90
LHEBLUPDIE1W045	45W	240	60°	4275	4000K	≥95
LHEBLUPFIE1W045	45W	240	60°	4500	5700K	≥100

Driver code : LSSCRX1252 for 8W, LSSCRX2291 for 12W, LSSCRX1837 for 20W, LSSCRX2118 / LSSCRX2306 for 30W, LSSCRX2295 for 45W

PHOTOMETRIC DATA



40°



60°

SPARKLE PRO FIXED

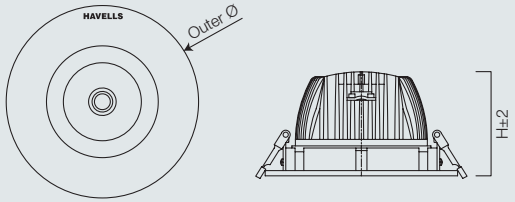
Recess mounting downlighter with pressure die-cast aluminium housing & high power COB LED used as Light Source.

IP20 IK03 PF ≥0.95

APPLICATIONS

- SHOWROOMS
- RESTAURANTS
- HOTEL LOBBIES
- CAR SHOWROOMS
- CALL CENTRES & BPOS
- MALLS AND RETAIL STORES
- CORRIDORS & PASSAGE AREAS

TECHNICAL DRAWING



DIMENSIONS

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

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

SPARKLE PRO ADJUSTABLE

PRODUCT SPECIFICATIONS

Housing & Finish	: Grey powder coated, elegantly designed pressure die-cast aluminium housing / heat sink for efficient heat dissipation & white finish PDC ring for holding the diffuser. Swivels 15° Vertical.
Light Source	: High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED >130 lm/W with viewing angle 120º to ensure better uniformity of light distribution.
Optics	: High purity faceted PC metalized glossy reflector to enhance the lumen output of the fixture.
Cover	: High quality Clear glass for 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	: Fixed into false ceiling with 2 nos MS spring clamps provided with the fixture.

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 $L_{70}B_{50}$: 35000 hours

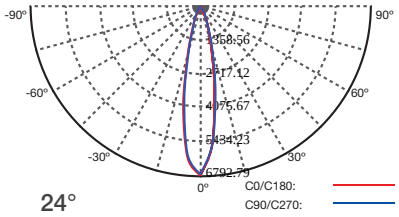
TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY, DETAIL GIVEN BELOW)

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

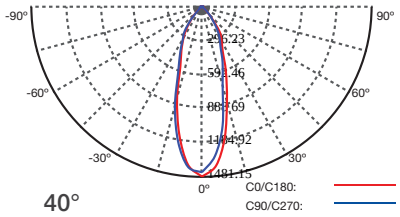
Driver code : LSSCRX1252 for 8W, LSSCRX2291 for 12W, LSSCRX1837 for 20W, LSSCRX2118 / LSSCRX2306 for 30W

24° on request in 20/30W

PHOTOMETRIC DATA



24°

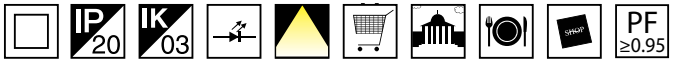


40°

SPARKLE PRO

ADJUSTABLE

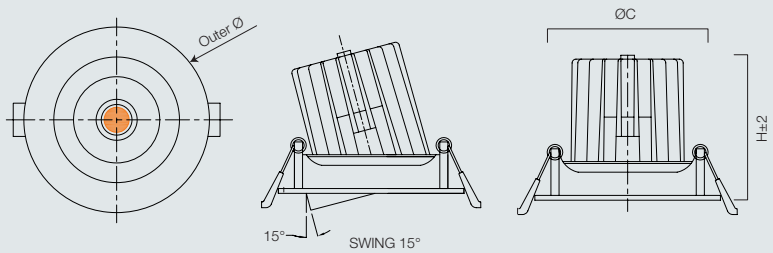
Recess mounted adjustable LED downlights made of extruded Aluminium housing and high power LED as a Light Source.



APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DRAWING



DIMENSIONS

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

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

SPARKLE PRO SNOOT

PRODUCT SPECIFICATIONS

Housing	: Powder coated white pressure die-cast aluminium housing for efficient thermal management with Zinc plated MS bracket for angle adjustment.
Optics	: High purity polycarbonate faceted metalized reflector with clear glass, 38° beam angle.
Electronic Driver	: Powered by an independent electronic driver in ABS housing with 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.

FEATURES & BENEFITS

- Adjustable LED directional spotlight with high efficiency light output.
- Tilted 70° outwards and swivels 350°
- Low power consumption and ideal for retail application
- Delivers high brightness & excellent illumination on wall and retail displays
- No harmful UV & IR Radiation
- Environment-friendly as it does not contain mercury
- Operating voltage range: 140-270V
- Instant light with low running temperature
- Operating temperature: -10°C to +45°C
- Average life $L_{70}B_{50}$: 50000 hours

TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY, DETAIL GIVEN BELOW)

Ordering Code	System Power	Voltage (V)	Beam Angle	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHESAQPBIN1W020	20W	240	38°	2000	3000K	≥90
LHESAQPDIN1W020	20W	240	38°	2050	4000K	≥95
LHESAQPGIN1W020	20W	240	38°	2100	5700K	≥100
LHESAQPBIN1W030	30W	240	38°	2700	3000K	≥90
LHESAQPDIN2W030	30W	240	38°	2850	4000K	≥95
LHESAQPGIN2W030	30W	240	38°	3000	5700K	≥100

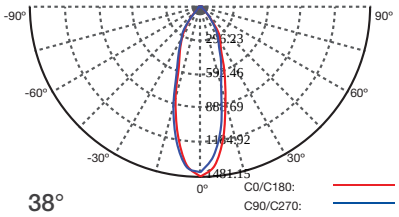
Driver code : LSSCRX1837 for 20W, LSSCRX2118 / LSSCRX2306 for 30W.

24° on request in 20/30W

SPARKLE PRO SNOOT

Recess mounted LED wall washers, tilted 70° outwards and swivels 350° to offer best illumination on the wall and retail displays.

PHOTOMETRIC DATA

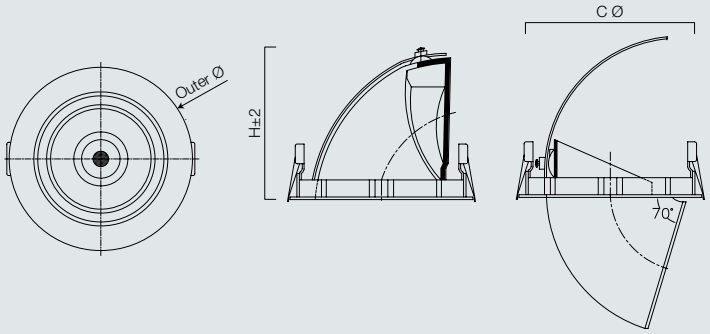


38°

APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DRAWING



DIMENSIONS

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

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

SPIRIT

PRODUCT SPECIFICATIONS

Housing & Finish : Aluminum extrusion fin in black colour for efficient heat dissipation with magnetic aperture attachments options and White powder coated optical compartment.

Light Source : High efficiency long life COB LED. Lumen efficacy of LED >130 lm/W with viewing angle 120º to ensure better uniformity of light distribution.

Optics : Faceted PC metalized reflector used for uniform light distribution with clear glass for uniform light. Various apertures optins like NARROW, OVAL, D, SYMMETRIC and ASYMMETRIC apertures are available.

Electronic Driver : Powered by an Independent electronic driver in white polycarbonate housing. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and 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. For details refer installation instructions.

FEATURES & BENEFITS

- Delivers excellent illumination & comfort in low ceiling areas
- 15° elbow tilt
- 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

APPLICATIONS

- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY, DETAIL GIVEN BELOW)

Ordering Code	System Power	Voltage (V)	Beam Angle	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBFMPBIB1W010	10W	240	24°	800	2700K	≥80
LHEBFMPDIB1W010	10W	240	24°	850	4000K	≥80
LHEBFMPBIH1W010	10W	240	40°	800	2700K	≥80
LHEBFMPDIH1W010	10W	240	40°	850	4000K	≥80
LHEBFMPBIG1W015	15W	240	24°	975	2700K	≥80
LHEBFMPDIG1W015	15W	240	24°	1050	4000K	≥80
LHEBFMPBIH1W015	15W	240	38°	975	2700K	≥80
LHEBFMPDIH1W015	15W	240	38°	1050	4000K	≥80

Driver code : LSSCRX1802 for 10W and LSSCRX2291 for 15W.
Ordering: Lamp unit + Driver + Attachment

ACCESSORIES

Description	Ordering Code
Spirit 85 10W Attachment RD -D	LSSLOW0166
Spirit 85 10W Attachment RD -Oval	LSSLOW0167
Spirit 85 10W Attachment RD -O	LSSLOW0168
Spirit 85 10W Attachment RD - Sym	LSSLOW0169
Spirit 85 10W Attachment RD - Asym	LSSLOW0170
Spirit 85 10W Attachment SD -O	LSSLOW0171

Description	Ordering Code
Spirit 105 15W Attachment RD -D	LSSLOW0172
Spirit 105 15W Attachment RD -Oval	LSSLOW0173
Spirit 105 15W Attachment RD -O	LSSLOW0174
Spirit 105 15W Attachment RD - Sym	LSSLOW0175
Spirit 105 15W Attachment RD - Asym	LSSLOW0176
Spirit 105 15W Attachment SQ -O	LSSLOW0177

Attachment RD-D

Attachment RD-Oval

Attachment RD-O

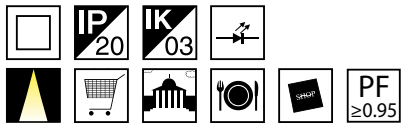
Attachment RD-ASYM

Attachment RD-SYM

Attachment SQ-O

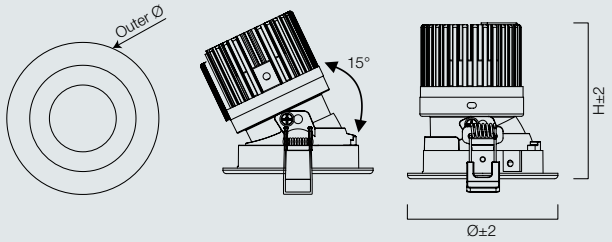
SPIRIT

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.



IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

TECHNICAL DRAWING

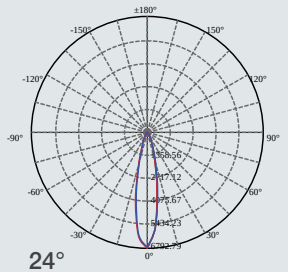


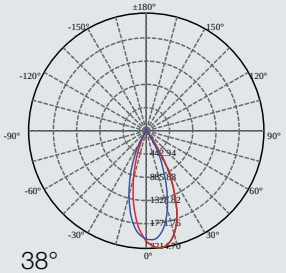
DIMENSIONS

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

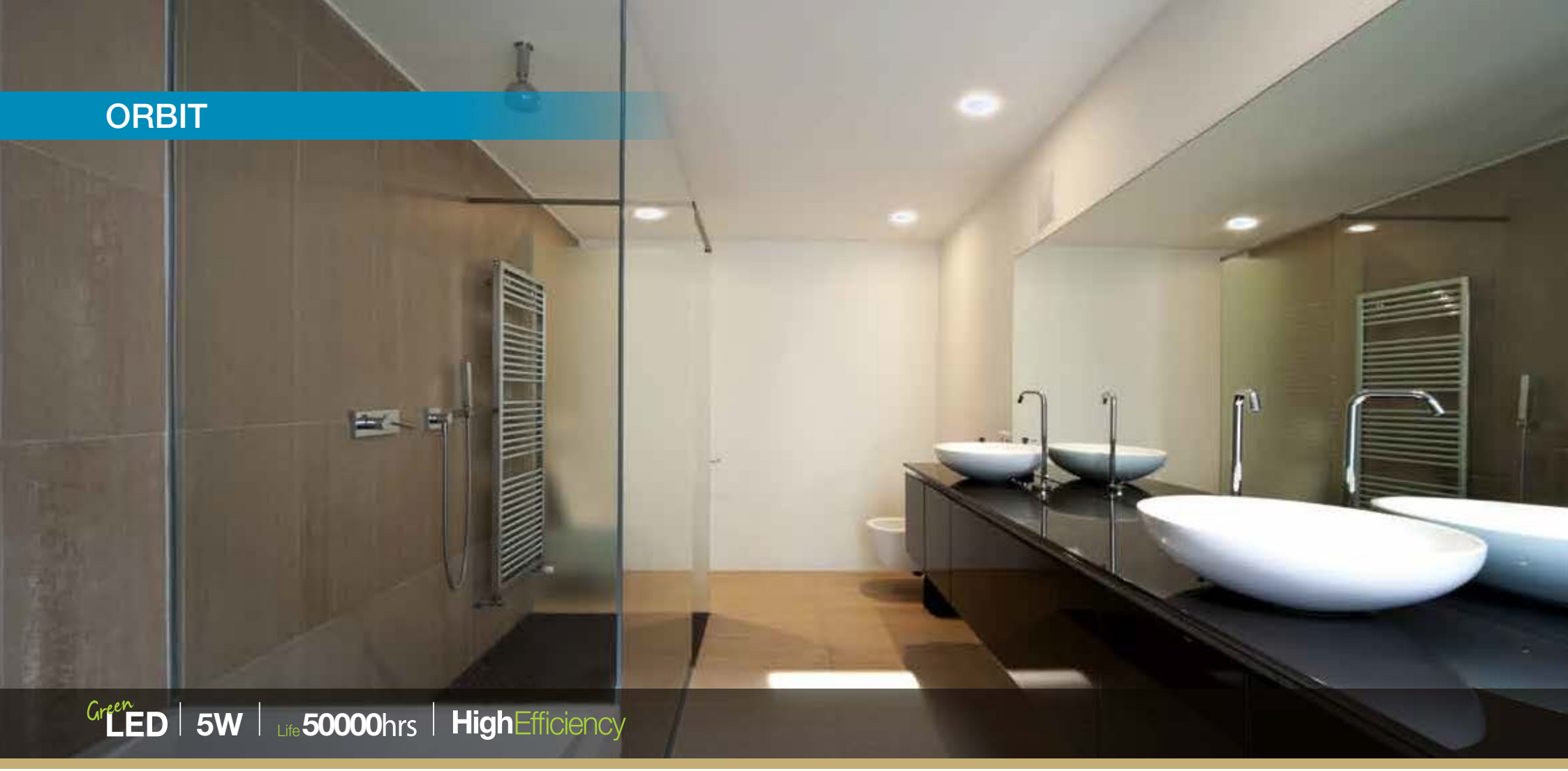
All dimensions are in mm
Tolerance: ± 2 mm

PHOTOMETRIC DATA


24°


38°

ORBIT



PRODUCT SPECIFICATIONS

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 tests 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.

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

TECHNICAL DATA

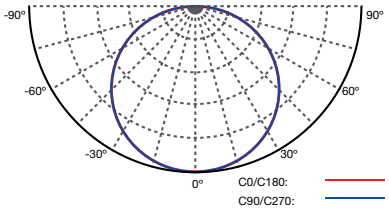
Ordering Code	System Power	Voltage (V)	CRI	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBLAP5PZ1W005	5W	240	≥80	370	3000K	≥74
LHEBLAP6PZ1W005	5W	240	≥80	380	4000K	≥76
LHEBLAP7PZ1W005	5W	240	≥80	400	5700K	≥80

Driver code: LSCELDO00065.

ORBIT

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).

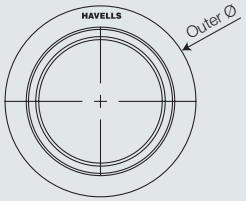
PHOTOMETRIC DATA



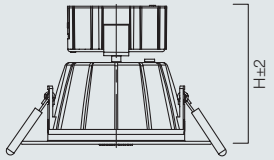
APPLICATIONS

- RETAIL STORES
- RESTAURANTS
- HOTEL LOBBIES / WAITING AREAS
- MODERN GYMS / SPA
- CORPORATE OFFICES

TECHNICAL DRAWING



Top View



Front View

DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

INTEGRA

PRODUCT SPECIFICATIONS

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 tests as per IS 15885 Part 2/ Sec 13.
Mounting	:	Fixing into false ceiling by 2 nos. SS springs/ clips.

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

TECHNICAL DATA

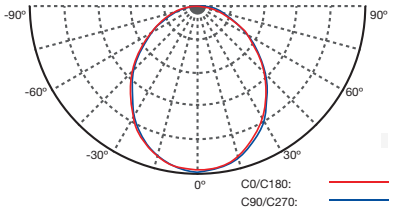
Ordering Code	System Power	Voltage (V)	CRI	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBGTP5PZ1W010	10W	240	≥80	900	3000K	≥90
LHEBGTP6PZ1W010	10W	240	≥80	940	4000K	≥94
LHEBGTP7PZ1W010	10W	240	≥80	980	5700K	≥98
LHEBJNP6PZ1W012	12W	240	≥80	1130	4000K	≥94
LHEBJNP7PZ1W012	12W	240	≥80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

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

INTEGRA

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.

PHOTOMETRIC DATA

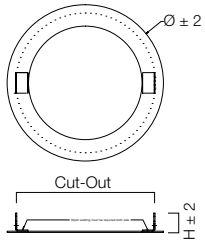


Accessories - Ring

CRCA powder coated rings to suit ceiling cut out to replace conventional luminaries 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

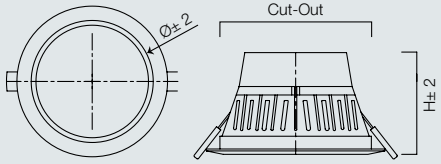
Dimensional Drawing for Ring



APPLICATIONS

- RESIDENCES
- RESTAURANTS
- HOTEL LOBBIES / WAITING AREAS
- MODERN GYMS / SPA
- CORPORATE OFFICES

TECHNICAL DRAWING



DIMENSIONS

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

ARDOR

PRODUCT SPECIFICATIONS

Housing & Finish	:	Black 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	:	White Polycarbonate reflector to enhance the lumen output of the fixture.
Diffuser	:	High quality polycarbonate diffuser along with white reflector for glare-free uniform light distribution.
Electronic Driver	:	Powered by an Independent electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage rotection and other safety estss 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.

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

TECHNICAL DATA (DRIVER TO BE ORDERED SEPARATELY, DETAIL GIVEN BELOW)

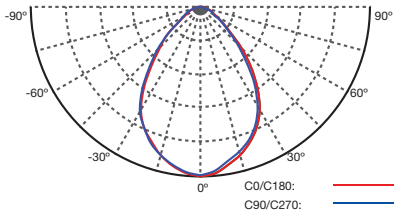
Ordering Code	System Power	Voltage (V)	CRI	Beam Angle	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBGTP5IZ1W024	24W	240	≥80	100°	2300	3000K	≥95
LHEBGTP6IZ1W024	24W	240	≥80	100°	2350	4000K	≥97
LHEBGTP7IZ1W024	24W	240	≥80	100°	2400	5700K	≥100
LHEBGTP5IZ1W035	35W	240	≥80	100°	3400	3000K	≥95
LHEBGTP6IZ1W035	35W	240	≥80	100°	3450	4000K	≥97
LHEBGTP7IZ1W035	35W	240	≥80	100°	3500	5700K	≥100

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

ARDOR

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.

PHOTOMETRIC DATA

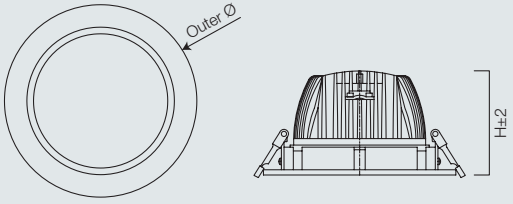


IP20 IK03 PF ≥0.95

APPLICATIONS

- RETAIL STORES/HYPERMARKETS
- HOTEL LOBBIES/WAITING AREAS
- RESTAURANTS
- CORPORATE OFFICES
- MUSEUMS
- HIGH END RESIDENCES
- AIRPORT LOUNGES

TECHNICAL DRAWING



Top View Front View

DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

IS 15885 (Part 2/Sec 13)
R-85000612

ENDURA HO

PRODUCT SPECIFICATIONS

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.

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

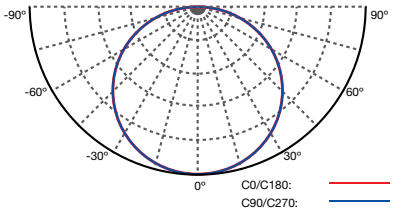
TECHNICAL DATA

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

ENDURA HO

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.

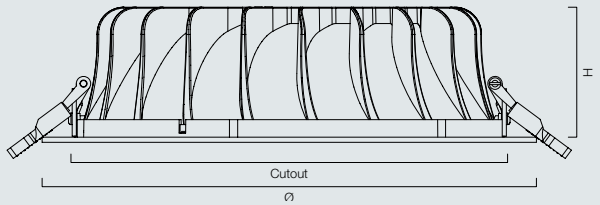
PHOTOMETRIC DATA



APPLICATIONS

- SHOPPING MALLS
- RESTAURANTS
- HOTEL LOBBIES / WAITING AREAS
- MODERN GYMS / SPA
- CORPORATE OFFICES

TECHNICAL DRAWING



DIMENSIONS

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

IS 15885 (Part 2/Sec 13)
R-XXXXXXXX

MAESTRO ROUND

PRODUCT SPECIFICATIONS

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 120º 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.
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.

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 $L_{70}B_{50}$: 50000 hours

TECHNICAL DATA

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

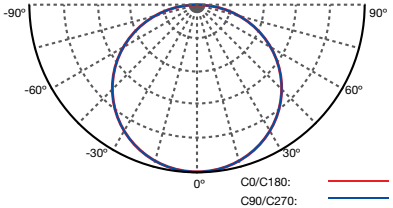
Driver code: LHGDADAFCQA1015.

also Available in 10W on request in same housing

MAESTRO ROUND

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

PHOTOMETRIC DATA

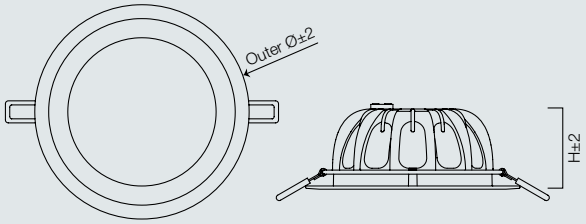


IP20 IK03 PF ≥0.95

APPLICATIONS

- SHOPPING MALLS
- RESTAURANTS
- HOTEL LOBBIES / WAITING AREAS
- MODERN GYMS / SPA
- CORPORATE OFFICES

TECHNICAL DRAWING



DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

IS 15885 (Part 2/Sec 13)
R-85000612

MAESTRO SQUARE

PRODUCT SPECIFICATIONS

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 120º 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.

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.

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 $L_{70}B_{50}$: 50000 hours

TECHNICAL DATA

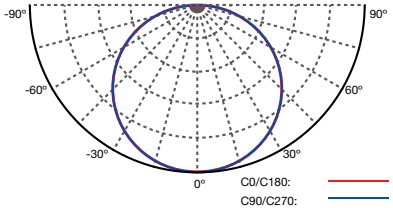
Ordering Code	System Power	Voltage (V)	CRI	Lumen (lm)	Colour Temp. (CCT)	System Luminous Efficacy Lm/ W
LHEBJSP5IZ1S015	15W	240	≥80	1200	3000K	≥80
LHEBJSP6PZ1S015	15W	240	≥80	1200	4000K	≥80
LHEBJSP7PZ1S015	15W	240	≥80	1275	5700K	≥85

Driver code: LHGDADAFCQA1015.

MAESTRO SQUARE

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

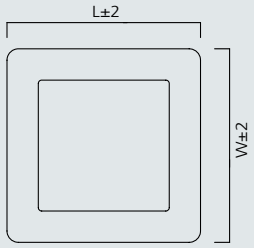
PHOTOMETRIC DATA



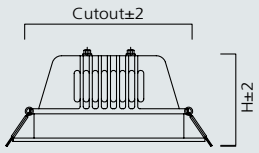
APPLICATIONS

- SHOPPING MALLS
- RESTAURANTS
- HOTEL LOBBIES / WAITING AREAS
- MODERN GYMS / SPA
- CORPORATE OFFICES

TECHNICAL DRAWING



Top View



Front View

DIMENSIONS

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

All dimensions are in mm
Tolerance: ± 2 mm

IS 15885 (Part 2/Sec 13)
R-85000612

NOTES

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