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.
Havells State of the art Luminaire Plant, Neemrana
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.


CERTIFICATIONS

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

TRACK SPOT

- Cylindro Page 12-13
- FIO Page 14-15
- Scuba Page 16-17
- Track & Accessories Page 18-19

DOWNLIGHT

- Sparkle pro Fixed Page 22-23
- Sparkle pro Adjustable Page 24-25
- Sparkle pro Snoot Page 26-27
- Spirit Page 28-29
- Orbit Page 30-31
- Integra Page 32-33
- Ardor Page 34-35
- Endura HO Page 36-37

- Maestro Round Page 38-39
- Maestro Square Page 40-41
Track Spots
**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 V - 270 V
- Operating temperature: -10° C to 45° C
- Average life $L_{70B50}$: 50000 hours

---

**APPLICATIONS**

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

---

**IS 10322 (Part 5/Sec 1): 2012**

**IS 15885 (Part 2/Sec 13)**
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Code</th>
<th>Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>Finish</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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Driver code: LSSLOW0179 for 15 W, LSSLOW0180 for 25 W, LSSLOW0181 for 35 W.

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

---

## TECHNICAL DRAWING

**Front View**

**Top View**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia. (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
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<td>15 W</td>
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<td>180</td>
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<td>35 W</td>
<td>90</td>
<td>216</td>
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All dimensions are in mm

Tolerance: ± 5 mm

---

## PHOTOMETRIC DATA

**24°**

**38°**
**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 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 tests as per IS:19888 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°C to 45°C
- Average life L_{70B50}: 35000 hours

**APPLICATIONS**

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

<table>
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<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tr>
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<td>40°</td>
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<td>≥86</td>
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<td>2200</td>
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<td>≥88</td>
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<td>4000 K</td>
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</table>

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

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

---

### TECHNICAL DRAWING

![Technical Drawing](image)

---

### DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Length (mm)</th>
<th>Height h (mm)</th>
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</thead>
<tbody>
<tr>
<td>25 W</td>
<td>79</td>
<td>236</td>
<td>203</td>
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<tr>
<td>35 W</td>
<td>92</td>
<td>247</td>
<td>225</td>
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</table>

All dimensions are in mm
Tolerance: ± 5 mm

---

### PHOTOMETRIC DATA

![Photometric Data](image)

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### FIO

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.
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 35 W
- 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 L70B50: 50000 hours

APPLICATIONS

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

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
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<td>LHEEGMSP11K035</td>
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<td>2800</td>
<td>White</td>
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<td>≥80</td>
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Driver code: LSSLOB0024 for 25 W, LSSLOB0025 for 35 W.

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.

### DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia. Ø (mm)</th>
<th>Length l (mm)</th>
<th>Height h (mm)</th>
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<tbody>
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<td>140</td>
<td>210</td>
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</tbody>
</table>

All dimensions are in mm. Tolerance: ± 5 mm

### PHOTOMETRIC DATA

55°

ISO 15885 (Part 2/Sec 13)
Continuous track rail made of aluminum extrusion with four wire 3-Phase connections. Suitable for track lights with 3-phase adopter only.

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<th>Product Description</th>
<th>Colour</th>
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<td>2 Meter 3 Phase Track</td>
<td>White</td>
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<td>LHFGAAN1TN1K000</td>
<td>1 Meter 3 Phase Track</td>
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<td>LSSLOW0060</td>
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**TECHNICAL DATA**

**Housing & Finish**: Extruded Aluminum powder coated in White/Black Finish

**Mounting**: Suitable for installation in suspension/Surface mounting

**TRACK & ACCESSORIES**

I Shaped Connector

L Shaped Connector

Adjustable Suspension Kit

**PRODUCT SPECIFICATIONS**
Downlights
SPARKLE PRO FIXED

• 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 V - 270 V
• Average life L70B50: 35000 hours

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 120º 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 tests as per IS:18885 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 V - 270 V
• Average life L70B50: 35000 hours
SPARKLE PRO FIXED

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

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

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBLUPBIH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>720</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBLUPDIH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>760</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBLUPFIH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>800</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBLUPBIH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1080</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBLUPDIH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1140</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBLUPFIH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1200</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBLUPBIH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>1800</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBLUPDIH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>1900</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBLUPFIH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>2000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBLUPBIH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>2700</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBLUPDIH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>2850</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBLUPFIH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>3000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBLUPBIH1W045</td>
<td>45 W</td>
<td>240</td>
<td>60°</td>
<td>4050</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBLUPDIH1W045</td>
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<td>240</td>
<td>60°</td>
<td>4275</td>
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</tr>
<tr>
<td>LHEBLUPFIH1W045</td>
<td>45 W</td>
<td>240</td>
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<td>4500</td>
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<td>≥100</td>
</tr>
</tbody>
</table>

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

PHOTOMETRIC DATA

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

TECHNICAL DRAWING

DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia. Ø (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 W</td>
<td>90</td>
<td>60</td>
<td>80</td>
</tr>
<tr>
<td>12 W</td>
<td>120</td>
<td>65</td>
<td>105</td>
</tr>
<tr>
<td>20 W</td>
<td>150</td>
<td>75</td>
<td>130</td>
</tr>
<tr>
<td>30 W</td>
<td>200</td>
<td>90</td>
<td>185</td>
</tr>
<tr>
<td>45 W</td>
<td>230</td>
<td>110</td>
<td>215</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

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

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 V - 270 V
• Average life $L_{70B50}$: 35000 hours

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 MGPCB. 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.

**LED** | 8 W / 12 W / 20 W / 30 W | **Life** 35000 hours | **High Efficiency**
SPARKLE PRO

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

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBMKPBIH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>720</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LHEBMKPDIH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>760</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBMKPIFH1W008</td>
<td>8 W</td>
<td>240</td>
<td>40°</td>
<td>800</td>
<td>6000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBMKPBIH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1080</td>
<td>3000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBMKPDIH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1140</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBMKPIFH1W012</td>
<td>12 W</td>
<td>240</td>
<td>40°</td>
<td>1200</td>
<td>6000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBMKPBIH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>2000</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBMKPDIH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>2100</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>LHEBMKPIFH1W020</td>
<td>20 W</td>
<td>240</td>
<td>40°</td>
<td>2200</td>
<td>6000 K</td>
<td>≥110</td>
</tr>
<tr>
<td>LHEBMKPBIH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>3000</td>
<td>3000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>LHEBMKPDIH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>3100</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>LHEBMKPIFH1W030</td>
<td>30 W</td>
<td>240</td>
<td>40°</td>
<td>3300</td>
<td>6000 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

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

24° on request in 20 W / 30 W

PHOTOMETRIC DATA

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

TECHNICAL DRAWING

DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia Ø (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 W</td>
<td>80</td>
<td>55</td>
<td>75</td>
</tr>
<tr>
<td>12 W</td>
<td>95</td>
<td>70</td>
<td>85</td>
</tr>
<tr>
<td>20 W</td>
<td>125</td>
<td>90</td>
<td>120</td>
</tr>
<tr>
<td>30 W</td>
<td>165</td>
<td>98</td>
<td>150</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
## SPARKLE PRO SNOOT

### 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 V - 270 V
- Instant light with low running temperature
- Operating temperature: -10° C to +45° C
- Average life $L_{70B50}$: 50000 hours

### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing</strong></td>
<td>Powder coated white pressure die-cast aluminium housing for efficient thermal management with Zinc plated MS bracket for angle adjustment.</td>
</tr>
<tr>
<td><strong>Optics</strong></td>
<td>High purity polycarbonate faceted metalized reflector with clear glass, 38° beam angle.</td>
</tr>
<tr>
<td><strong>Electronic Driver</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Fixed into false ceiling with 2 nos SS springs/clamps provided with the fixture.</td>
</tr>
</tbody>
</table>

**LED** | 20 W / 30 W | **L60B50 hours** | **High Efficiency**
SPARKLE PRO SNOOT

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

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

24° on request in 20 W / 30 W

PHOTOMETRIC DATA

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

TECHNICAL DRAWING

DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 W</td>
<td>150</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>30 W</td>
<td>185</td>
<td>170</td>
<td>175</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
**Spirit**

- **LED | 10 W / 15 W | Life 50,000 hours | High Efficiency**

**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 120° 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 options 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 16885 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 V - 270 V
- Average life L70B50: 50,000 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)

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>Beam Angle</th>
<th>Lumen (lm)</th>
<th>Colour Tmp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBFMPPB1W010</td>
<td>10 W</td>
<td>240</td>
<td>24°</td>
<td>800</td>
<td>2700 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPB1W010</td>
<td>10 W</td>
<td>240</td>
<td>24°</td>
<td>850</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPB11W010</td>
<td>10 W</td>
<td>240</td>
<td>40°</td>
<td>800</td>
<td>2700 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPD1H1W010</td>
<td>10 W</td>
<td>240</td>
<td>40°</td>
<td>850</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPG1W015</td>
<td>15 W</td>
<td>240</td>
<td>24°</td>
<td>975</td>
<td>2700 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPG1W015</td>
<td>15 W</td>
<td>240</td>
<td>24°</td>
<td>1050</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPH1W015</td>
<td>15 W</td>
<td>240</td>
<td>38°</td>
<td>975</td>
<td>2700 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEBFMPPH1W015</td>
<td>15 W</td>
<td>240</td>
<td>38°</td>
<td>1050</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
</tbody>
</table>

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

ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spirit 85 10 W Attachment RD - D</td>
<td>LSSL00166</td>
</tr>
<tr>
<td>Spirit 85 10 W Attachment RD - Oval</td>
<td>LSSL00167</td>
</tr>
<tr>
<td>Spirit 85 10 W Attachment RD - O</td>
<td>LSSL00168</td>
</tr>
<tr>
<td>Spirit 85 10 W Attachment RD - Sym</td>
<td>LSSL00169</td>
</tr>
<tr>
<td>Spirit 85 10 W Attachment RD - Asym</td>
<td>LSSL00170</td>
</tr>
<tr>
<td>Spirit 85 10 W Attachment SD - O</td>
<td>LSSL00171</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spirit 105 15 W Attachment RD - D</td>
<td>LSSL00172</td>
</tr>
<tr>
<td>Spirit 105 15 W Attachment RD - Oval</td>
<td>LSSL00173</td>
</tr>
<tr>
<td>Spirit 105 15 W Attachment RD - O</td>
<td>LSSL00174</td>
</tr>
<tr>
<td>Spirit 105 15 W Attachment RD - Sym</td>
<td>LSSL00175</td>
</tr>
<tr>
<td>Spirit 105 15 W Attachment RD - Asym</td>
<td>LSSL00176</td>
</tr>
<tr>
<td>Spirit 105 15 W Attachment SD - O</td>
<td>LSSL00177</td>
</tr>
</tbody>
</table>

PHOTOMETRIC DATA

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.
ORBIT

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 V - 270 V
- Average life L70B50: 50000 hours

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 MOPCB 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 V - 270 V
- Average life L70B50: 50000 hours
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBLAP5PZ1W005</td>
<td>5 W</td>
<td>240</td>
<td>≥80</td>
<td>370</td>
<td>3000 K</td>
<td>≥74</td>
</tr>
<tr>
<td>LHEBLAP6PZ1W005</td>
<td>5 W</td>
<td>240</td>
<td>≥80</td>
<td>380</td>
<td>4000 K</td>
<td>≥76</td>
</tr>
<tr>
<td>LHEBLAP7PZ1W005</td>
<td>5 W</td>
<td>240</td>
<td>≥80</td>
<td>400</td>
<td>5700 K</td>
<td>≥80</td>
</tr>
</tbody>
</table>

Driver code: LSCELDO00065.

### APPLICATIONS

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

### TECHNICAL DRAWING

![Top View](Image)

![Front View](Image)

### DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 W</td>
<td>114</td>
<td>83</td>
<td>95</td>
</tr>
</tbody>
</table>

All dimensions are in mm. Tolerance: ± 5 mm

**ORBIT**

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

**PHOTOMETRIC DATA**

![Photometric Data](Image)

**TECHNICAL DRAWING DIMENSIONS**

All dimensions are in mm. Tolerance: ± 5 mm
**INTEGRA**

**LED** | 10 W / 12 W / 15 W / 24 W | Life: 50000 hours | High Efficiency

---

**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 V - 270 V
- Average life L_{T50} : 50000 hours
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBGTP5PZ1W010 10 W</td>
<td>240</td>
<td>≥80</td>
<td>900</td>
<td>3000 K</td>
<td>≥90</td>
<td></td>
</tr>
<tr>
<td>LHEBGTP6PZ1W010 10 W</td>
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<td>≥80</td>
<td>940</td>
<td>4000 K</td>
<td>≥94</td>
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<tr>
<td>LHEBGTP7PZ1W010 10 W</td>
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<td>980</td>
<td>5700 K</td>
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<td>LHEBGTP5PZ1W015 15 W</td>
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<td>1280</td>
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<td>≥85</td>
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<td>≥80</td>
<td>1350</td>
<td>4000 K</td>
<td>≥90</td>
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<tr>
<td>LHEBGTP7PZ1W015 15 W</td>
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<td>≥80</td>
<td>1425</td>
<td>5700 K</td>
<td>≥95</td>
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<tr>
<td>LHEBGTP5PZ1W024 24 W</td>
<td>240</td>
<td>≥80</td>
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<td>3000 K</td>
<td>≥90</td>
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<tr>
<td>LHEBGTP6PZ1W024 24 W</td>
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<td>2280</td>
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<td>≥95</td>
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<tr>
<td>LHEBGTP7PZ1W024 24 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>5700 K</td>
<td>≥100</td>
<td></td>
</tr>
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</table>

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

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

### TECHNICAL DRAWING

### DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia. (Ø mm)</th>
<th>Height (h mm)</th>
<th>Cutout Size (Ø mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 W</td>
<td>111</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>12 W</td>
<td>158</td>
<td>90</td>
<td>138</td>
</tr>
<tr>
<td>15 W</td>
<td>158</td>
<td>90</td>
<td>138</td>
</tr>
<tr>
<td>24 W</td>
<td>197</td>
<td>90</td>
<td>175</td>
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</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 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 protection and other safety essss 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 V - 270 V
- Average life L70B50: 50000 hours

**LED | 24 W / 35 W | L70B50: 50000 hours | High Efficiency**
APPLICATIONS

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

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

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Beam Angle</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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</thead>
<tbody>
<tr>
<td>LHEBGTP51Z1W024</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>2300</td>
<td>3000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LHEBGTP61Z1W024</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>2350</td>
<td>4000 K</td>
<td>≥97</td>
</tr>
<tr>
<td>LHEBGTP71Z1W024</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>2400</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LHEBGTP51Z1W035</td>
<td>35 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>3400</td>
<td>3000 K</td>
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</tr>
<tr>
<td>LHEBGTP61Z1W035</td>
<td>35 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>3450</td>
<td>4000 K</td>
<td>≥97</td>
</tr>
<tr>
<td>LHEBGTP71Z1W035</td>
<td>35 W</td>
<td>240</td>
<td>≥80</td>
<td>100°</td>
<td>3500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

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

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

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.

TECHNICAL DRAWING

DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 W</td>
<td>185</td>
<td>90</td>
<td>180</td>
</tr>
<tr>
<td>35 W</td>
<td>219</td>
<td>98</td>
<td>210</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
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 $\geq 140$ 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 V - 270 V
- Average life $L_{70B50}$: 50000 hours

**LED**

- 12 W / 15 W / 21 W / 25 W
- **Life**: 50000 hours
- **High Efficiency**
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.

<table>
<thead>
<tr>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shopping Malls</td>
</tr>
<tr>
<td>Restaurants</td>
</tr>
<tr>
<td>Hotel Lobbies / Waiting Areas</td>
</tr>
<tr>
<td>Modern Gyms / Spa</td>
</tr>
<tr>
<td>Corporate Offices</td>
</tr>
</tbody>
</table>

### Technical Data

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

**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 V - 270 V
- Average life $L_{70B50}$: 50000 hours

**LED** | **15 W** | **Life 50000 hours** | **High Efficiency**
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

MAESTRO ROUND

Applications

- Shopping Malls
- Restaurants
- Hotel Lobbies / Waiting Areas
- Modern Gyms / Spa
- Corporate Offices

Technical Drawing

Technical Drawing

Technical Data

Ordering Code

<table>
<thead>
<tr>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBJS5PZ1S015</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1200</td>
<td>3000 K</td>
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<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1200</td>
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<tr>
<td>LHEWDSP7PL1W015</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1275</td>
<td>5700 K</td>
</tr>
</tbody>
</table>

Driver code: LHGDADAFCQA1015.
also Available in 10 W on request in same housing

Ordering Code

<table>
<thead>
<tr>
<th>System</th>
<th>Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHEBJS5PZ1S015</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1200</td>
<td>3000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEWDSP6PL1W015</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1200</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>LHEWDSP7PL1W015</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1275</td>
<td>5700 K</td>
<td>≥85</td>
</tr>
</tbody>
</table>

PHOTOMETRIC DATA

- C0/C180:
- C90/C270:
- 90º-90º
- 60º-60º
- 30º
- 15º

CRI ≥ 80

Colour Temp. (CCT)

- 3000 K
- 4000 K
- 5700 K

System Luminous Efficacy (lm/W)

- ≥80
- ≥80
- ≥85

Dimensions

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (mm)</th>
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</thead>
<tbody>
<tr>
<td>15 W</td>
<td>185</td>
<td>75</td>
<td>170</td>
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</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

IS 15883 (Part 2/Sec 13)

HALELS
**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:19885 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: -10º C to +45º C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours

**LED | 15 W | L70 50000 hours | High Efficiency**
APPLICATIONS

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tr>
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<td>≥80</td>
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<tr>
<td>LHEBJS6P7Z1S015</td>
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<td>240</td>
<td>≥80</td>
<td>1275</td>
<td>5700 K</td>
<td>≥85</td>
</tr>
</tbody>
</table>

Driver code: LHGDADAFQA1015.

PHOTOMETRIC DATA

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.

TECHNICAL DRAWING

DIMENSIONS

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 W</td>
<td>172</td>
<td>172</td>
<td>72</td>
<td>105 x 155</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
REGIONAL & BRANCH OFFICES:

NORTH - REGIONAL OFFICE: Corporate Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304, Tel: 0120-3331000, Delhi: Tel: 011-47676700, Chandigarh: Tel: 0172-4232400-401, Dehradun: Tel: 0135-6670202, Noida / Haryana: Tel: 0120-3331000, Ludhiana: Tel: 0161-4676000 / 24, Jammu: Tel: 0191-2478330, 2479330, Sri Nagar: Tel: 0194-2490431, Jaipur: Tel: 0141-3914645, 3988210 Jodhpur: Tel: 0291-9214201640 / 45, Lucknow: Tel: 0522-6672100, Kanpur: Tel: 0512-6710400, 6710409

EAST - REGIONAL OFFICE: Kolkata: ICC Tower, 5th Floor, 4 India Exchange Place, Kolkata-700001, Tel: 033-40129851 / 52, Bhubaneshwar: Tel: 0674-6668101/102/103/104, Guwahati: Tel: 0361-2134521, 2458923, 2460355, Siliguri: Tel: 0353-2525907, Ranchi: 0651-2244861, 2244862, 2244864, 2244868, 2244869, Jamshedpur: Tel: 0657-6542492, 09234369436, Patna: Tel: 0612-2207221, 2207222, 2207223, 2655518

WEST - REGIONAL OFFICE: Mumbai: 1271, Solitaire Corporate Park, Bldg. No. 12, 7th Floor, Andheri - Ghatkopar Link Road, Chakala, Andheri (East), Mumbai- 400093. Ph.: 022 - 67298800-602, Ahmedabad: Tel: 079-40061111, 4006738-740, Indore: Tel: 0731-2572340-41, 4009998 (Airtel), Rajkot: Tel: 0281-2481112, 2921212, Nagpur: Tel: 0712-224032, 2242692, 2242699 Pune: Tel: 020-64016413 / 14, Raipur: Tel: 0771-4243400 / 01, Surat: Tel: 0261-2550137, 9979880137, Jabalpur: Tel: 0761-4064491


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

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