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

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

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

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

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

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

Neemrana Lighting Plant

Advanced technology cutting machine

Italian Robotised Box Bending Machines

Japanese Flexible CNC controlled steel fabrication process
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 & bending Italian robotised box bending machines to design complex enclosure shapes without human intervention Automated powder coating paint shop to minimize wastage & fast colour change Eco-friendly zero discharge plant Parabolic rolling machine for replicating complex and accurate forms and shapes Flexible assembly line Modern laboratories

Building customer confidence by providing a wide range of quality products and service through team work
ITS TIME TO SWITCH TO LED!

Switch to lower Electricity Bills & High Efficiency

Switch for long lasting performance (50,000 burning hours) & zero maintenance

Switch to Smart Street Lighting Solutions

Switch for reduced carbon footprint & sustainability (No Mercury & UV)

Switch for high environment endurance & shock resistance
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<tr>
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<td>ENDURAPEARLSL15WLED757SASYTOPC</td>
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<td>VENUSNEOHE2X2PLR18-42WLED857MOD</td>
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**EXAMPLES:**

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<th>NOMENCLATURE</th>
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<td>BAYBRITESAUCE</td>
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<td>PL R 34 W LED 857</td>
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</table>
## NOMENCLATURE

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<thead>
<tr>
<th>DRIVER</th>
<th>BEAM</th>
<th>DRIVER COMPARTMENT</th>
<th>TYPE OF DIFFUSER</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>S-Standard</td>
<td>Asy-Asymmetric</td>
<td>TO-Top Opening</td>
<td>Lens</td>
<td>BLK</td>
</tr>
<tr>
<td>D-Dali</td>
<td>Sym-Symmetric</td>
<td>BO-Bottom Opening</td>
<td>PC-Polycarbonate</td>
<td>WHT/WH</td>
</tr>
<tr>
<td>A-Analog</td>
<td>WB-Wide Beam</td>
<td>CG Box</td>
<td>PS-Polystyrene</td>
<td>SS</td>
</tr>
<tr>
<td>P-Potted Driver</td>
<td>NB-Narrow Beam</td>
<td></td>
<td>TG-Toughened glass</td>
<td>MS</td>
</tr>
<tr>
<td>MOD-Lamp Module</td>
<td>24D-24 Degree</td>
<td></td>
<td>PMMA</td>
<td>GRY</td>
</tr>
<tr>
<td></td>
<td>38D-38 Degree</td>
<td></td>
<td>LTG-Lens Toughened glass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>40D-40 Degree</td>
<td></td>
<td>Glass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45D-45 Degree</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>60D-60 Degree</td>
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</tr>
<tr>
<td></td>
<td>90D-90 Degree</td>
<td></td>
<td></td>
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</tbody>
</table>

**EXAMPLES:**

- **200 W**
  - WB LTG TO
  - BAYBRITESAUCER HB
- **15 W**
  - LED 757 S -ASY PCTO
  - ENDURAPEARL SL P LED 757
Introducing the wide range of outdoor application LED products from Havells. This range is yet another example of Havells’ endeavour to innovate and provide world class lighting solution, energy efficient products and robust design. These lights are designed to fulfill the lighting applications of City Road Lighting, Periphery Lighting, Prestigious Heritage Area Outdoor Lighting and Urban Landscape Lighting.
New generation energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having TOP Opening separate driver compartment with IP66 protection and impact resistance of IK 07.
PRODUCT SPECIFICATIONS

**Features & Benefits**
- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp: 35° C
- Operating temperature: -10° C to +50° C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours

**Housing**
Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistance, separate optical and control gear compartment & top opening for easy maintenance.

**Finish**
Polyster powder coated grey after phosphochromate treatment.

**Light source**
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥140 lm/W.

**Optics**
High efficiency polycarbonate UV stabilized cover with integrated Lens to ensure asymmetrical batwing light distribution (For detailed photometric data, please refer LM 79 report & IES file).

**Electronic Driver**
Powered by Built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec13.

**Mounting & Maintenance**
Suitable for side entry, pole mounting with bracket arm OD 42 mm max. Recommended mounting height with suitable inground reinforcement is 3-5 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
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</thead>
<tbody>
<tr>
<td>ENDURAPEARL15WLED757SASYTOPC</td>
<td>15 W</td>
<td>240</td>
<td>0.065</td>
<td>1600</td>
<td>5700 K</td>
<td>&gt;105</td>
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<tr>
<td>ENDURAPEARL20WLED757SASYTOPC</td>
<td>20 W</td>
<td>240</td>
<td>0.085</td>
<td>2100</td>
<td>5700 K</td>
<td>&gt;105</td>
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<tr>
<td>ENDURAPEARL25WLED757SASYTOPC</td>
<td>25 W</td>
<td>240</td>
<td>0.105</td>
<td>2500</td>
<td>5700 K</td>
<td>&gt;100</td>
</tr>
</tbody>
</table>

Driver code: LSCELDLX0093 for 15 W, LSCELDLX0088 for 20 W, LSCELDLX0089 for 25 W.

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**TECHNICAL DRAWING**

**POLAR PLOT**
ENDURA CITYLITE PLATINUM PLUS

Street light

APPLICATIONS:

- CITY ROAD LIGHTING
- SHOPPING CENTERS PERIMETER LIGHTING
- CITY LIGHTING RENOVATION/UP GRADATION PROJECT
- PRESTIGIOUS/HERITAGE AREA OUTDOOR LIGHTING

Energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP66 protection and Impact resistance of IK 07.
PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination
- Long life & photobiologically safe LED's
- 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 + 50°C
- Average life L₇₀B₅₀: 50000 hours

Housing
Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistant. Cable gland is used for maintaining ingress protection.

Light source
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED >140 lm/W with PC lens to ensure better uniformity of light distribution.

Cover
Tempered protective custom moulded polycarbonate diffuser, thermal shock and impact resistant (IK-07) fixed to the housing by SS screws.

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

Mounting
Suitable for pole mounting with bracket arm OD of 42 mm max. Recommended mounting height with suitable inground reinforcement is 3-6 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tbody>
<tr>
<td>ENDURACITYLITEPLAT PLUSL30WLED757SASYBOPC</td>
<td>30 W</td>
<td>240</td>
<td>0.140</td>
<td>3000</td>
<td>5700 K</td>
<td>&gt;100</td>
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<tr>
<td>ENDURACITYLITEPLAT PLUSL35WLED757SASYBOPC</td>
<td>35 W</td>
<td>240</td>
<td>0.150</td>
<td>3500</td>
<td>5700 K</td>
<td>&gt;100</td>
</tr>
</tbody>
</table>

Driver code: LSCELDOX0206 for 30 W / 35 W

TECHNICAL DRAWING

POLAR PLOT

<table>
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<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Mounting Bracket Dia (mm)</th>
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</thead>
<tbody>
<tr>
<td>30 W / 35 W</td>
<td>360</td>
<td>100</td>
<td>60</td>
<td>43</td>
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</table>
ENDURA PEARL NEO

Street light

APPLICATIONS:
- CITY ROAD LIGHTING
- SHOPPING CENTERS PERIMETER LIGHTING
- CITY LIGHT RENOVATION
- URBAN LANDSCAPING

New generation energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having TOP Opening separate driver compartment with IP66 protection and impact resistance of IK 07 with 10 kV Built-in Surge Protection Device.
PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +50°C
- Operating voltage range: 140 V - 270 V
- Ambient temp to: 35°C
- Average life \( L_{70B50} \): 50000 hours

Housing
Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistant, separate optical and control gear compartment & top opening for easy maintenance.

Light source
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED \( \geq 140 \text{ lm/W} \).

Optics
High efficiency polycarbonate UV stabilized cover with integrated Lens to ensure Asymmetrical batwing light distribution.

Electronic Driver
Powered by Inbuilt electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection & other safety test as per IS 15885 Part-2/Sec-13 and BIS comply.

Mounting & Maintenance:
Suitable for side entry, pole mounting with bracket arm OD 42 mm max. Recommended mounting height with suitable inground reinforcement is 4-6 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDURAPERLNEOSL40WLED757PASYTOPC</td>
<td>40 W</td>
<td>240</td>
<td>0.175</td>
<td>4200</td>
<td>5700 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>ENDURAPERLNEOSL45WLED757PASYTOPC</td>
<td>45 W</td>
<td>240</td>
<td>0.200</td>
<td>4600</td>
<td>5700 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>ENDURAPERLNEOSL48WLED757PASYTOPC</td>
<td>48 W</td>
<td>240</td>
<td>0.210</td>
<td>4800</td>
<td>5700 K</td>
<td>&gt;100</td>
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Driver code: LSSCRX2383 for 40 W, LSSCRX2462 for 45 W, LSSCRX2462 for 48 W.

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<tr>
<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Mounting Bracket Dia (Ø)</th>
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<tr>
<td>40 W / 45 W / 48 W</td>
<td>420</td>
<td>124</td>
<td>72</td>
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All dimensions are in mm | Tolerance: ± 5 mm
ENDURA PEARL PLUS

Street light

APPLICATIONS:

- CITY ROAD LIGHTING
- SHOPPING CENTERS PERIMETER LIGHTING
- CITY LIGHT RENOVATION
- URBAN LANDSCAPING

New generation energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having TOP Opening separate driver compartment with IP66 protection and impact resistance of IK 07 with 10 kV Built-in Surge Protection Device.
PRODUCT SPECIFICATIONS

Features & Benefits
• Delivers excellent illumination
• Long life & photobiologically safe LEDs
• High performance electronic driver ensures zero maintenance
• No harmful UV & IR radiations
• Environment-friendly as it does not contain Mercury
• Aesthetically designed pressure die-cast aluminium housing with top opening service
• cover with powder coated metallic grey finish
• Instant light with low running temperatures
• Ambient temp ta: 35° C
• Operating temperature: -10° C to + 50° C
• Operating voltage range: 140 V - 270 V
• Average life L_85; 50000 hours

Housing
Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistant, separate optical and control gear compartment.

Finish
Polyester powder coated grey after phosphochromate treatment.

Light source
High efficiency long life LED package modules on MCPCB with LED lumen efficacy of >140 lumen per watt.

Optics
High efficiency polycarbonate UV stabilized cover with integrated Lens to ensure Asymmetrical batting light distribution.

Electronic Driver
Powered by Built-in, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Phase to Phase protection, Over Voltage protection, 10 kV surge protection Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec13.

Mounting & Maintenance :
Suitable for side entry, pole mounting with bracket arm OD 54 mm max. Recommended mounting height with suitable inground reinforcement is 5 - 8 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

TECHNICAL DATA

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<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD DRIVER</td>
<td>ENDURAPEARLPLUS60WLED757SASYTOPC</td>
<td>60 W</td>
<td>240</td>
<td>0.210</td>
<td>6500</td>
<td>5700 K</td>
</tr>
<tr>
<td>ENDURAPEARLPLUS70WLED757SASYTOPC</td>
<td>70 W</td>
<td>240</td>
<td>0.310</td>
<td>7800</td>
<td>5700 K</td>
<td>&gt;115</td>
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<tr>
<td>ENDURAPEARLPLUS80WLED757SASYTOPC</td>
<td>80 W</td>
<td>240</td>
<td>0.350</td>
<td>8500</td>
<td>5700 K</td>
<td>&gt;110</td>
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</tbody>
</table>

Driver code: LSCELDOX0136 for 60/70 W, LSCELDOX0236 for 80 W

| POTTED DRIVER | ENDURAPEARLPLUS60WLED757PASYTOPC | 60 W | 240 | 0.210 | 6500 | 5700 K | >115 |
| ENDURAPEARLPLUS70WLED757PASYTOPC | 70 W | 240 | 0.310 | 7800 | 5700 K | >115 |
| ENDURAPEARLPLUS80WLED757PASYTOPC | 80 W | 240 | 0.350 | 8500 | 5700 K | >110 |

Driver code: LSCELDOX0269 for 60 W / 70 W / 80 W.

TECHNICAL DRAWING

POLAR PLOT

<table>
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<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Mounting Bracket Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 W / 70 W / 80 W</td>
<td>368</td>
<td>257</td>
<td>83</td>
<td>54</td>
</tr>
</tbody>
</table>

All dimensions are in mm | Tolerance: ± 5 mm
PEARL MAGNUM

Street light

APPLICATIONS:

- CITY ROAD LIGHTING
- SHOPPING CENTERS PERIMETER LIGHTING
- CITY LIGHT RENOVATION
- PRESTIGIOUS
- HERITAGE AREA OUTDOOR LIGHTING

New generation energy saving & environmental friendly long life Versatile pressure die-cast aluminium IP66 roadway luminaire with high power LED as light source.
PRODUCT SPECIFICATIONS

Features & Benefits

• Delivers excellent illumination
• Long life & photobiologically safe LED's
• 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 + 50°C
• Operating voltage range: 140 V - 270 V
• Average life L₇₀B₅₀: 50000 hours

Housing & Finish

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistant, separate optical and control gear compartment & top opening for easy maintenance. Polyster powder coated grey after phosphochromate treatment.

Electronc Driver

Powered by Built-in, Potted electronic LED driver (SMPS based constant current supply) with lower THD, Output Open Circuit protection, Phase to Phase protection, Over Voltage protection, Surge Voltage protection upto 10 kV with external SPD & other safety tests as per IS 15885 Part-2/ Sec13.

Mounting & Maintenance:
Suitable for pole mounting with bracket arm OD 58 mm (max). Recommended mounting height with suitable inground reinforcement is 9 - 10 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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</thead>
<tbody>
<tr>
<td>ENDURAPEARMAGNUMSL90WLED757PASYTOTG</td>
<td>90 W</td>
<td>240</td>
<td>0.400</td>
<td>10200</td>
<td>5700 K</td>
<td>≥113</td>
</tr>
<tr>
<td>ENDURAPEARMAGNUMSL100WLED757PASYTOTG</td>
<td>100 W</td>
<td>240</td>
<td>0.450</td>
<td>11500</td>
<td>5700 K</td>
<td>≥115</td>
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<tr>
<td>ENDURAPEARMAGNUMSL110WLED757PASYTOTG</td>
<td>110 W</td>
<td>240</td>
<td>0.480</td>
<td>12200</td>
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<td>≥110</td>
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<tr>
<td>ENDURAPEARMAGNUMSL120WLED757PASYTOTG</td>
<td>120 W</td>
<td>240</td>
<td>0.540</td>
<td>13800</td>
<td>5700 K</td>
<td>≥115</td>
</tr>
</tbody>
</table>

Driver code: LSCELDLX0230 for 90 W, LSCELDLX0230 for 100 W, LSCELDLX0198 for 110 W, LSCELDLX0225 for 120 W.

TECHNICAL DRAWING

POLAR PLOT
ENDURA PULSE

APPLICATIONS:
- CITY ROAD LIGHTING
- SHOPPING CENTER PERIMETER LIGHTING
- CITY LIGHTING RENOVATION/UP-GRADATION PROJECT
- PRESTIGIOUS/HERITAGE AREA OUTDOOR LIGHTING

Street light

LED streetlight made up of pressure die cast housing with toughened glass and individual high power LEDs with secondary optics, Potted driver, IP66 protection and impact resistance of IK 07.
PRODUCT SPECIFICATIONS

Features & Benefits
- Features & Benefits
- Delivers excellent illumination
- Long life & photobiologically safe LEDs
  High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to + 50° C
- Operating voltage range: 140 V - 270 V
- Average life L₇₀B₅₀: 50000 hours

Housing
Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection.

Finish
Polyester powder coated grey after phosphochromate treatment.

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

Light source
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥140 lm/W with PC lens to ensure better uniformity of light distribution.

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

Mounting & Maintenance:
Suitable for pole mounting with bracket arm OD of 63 mm (max).
Recommended mounting height with suitable inground reinforcement is 9-10 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDURAPULSEPSSL135WLED757PASYBOTG</td>
<td>135 W</td>
<td>240</td>
<td>0.610</td>
<td>14800</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>ENDURAPULSENSL150WLED757PASYBOTG</td>
<td>150 W</td>
<td>240</td>
<td>0.665</td>
<td>16500</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

Driver code: LSCELDOX0202 FOR 135 W, LSCELDOX0247 FOR 150 W

TECHNICAL DRAWING

POLAR PLOT

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Mounting Bracket Dia (Ø)</th>
</tr>
</thead>
<tbody>
<tr>
<td>135 W / 150 W</td>
<td>595</td>
<td>291</td>
<td>85</td>
<td>63</td>
</tr>
</tbody>
</table>

All dimensions are in mm | Tolerance: ± 5 mm
Mounting Holes Distance : Ø
ENDURA CITYLINER NEO

Street light

APPLICATIONS:
- CITY ROAD LIGHTING
- SHOPPING CENTERS PERIMETER LIGHTING
- CITY LIGHTING RENOVATION/UP GRADATION PROJECT
- PRESTIGIOUS/HERITAGE AREA OUTDOOR LIGHTING

LED streetlight made up of pressure die cast housing with toughned glass and individual high power LEDs with secondary optics, Potted driver, IP66 protection and impact resistance of IK 07.
PRODUCT SPECIFICATIONS

**Features & Benefits**
- Delivers excellent illumination
- Long life & photobiologically safe LED's
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Ambient temp ta: 35°C
- Operating temperature: -10°C to + 45°C
- Operating voltage range: 140 V - 270 V
- Average life L<sub>70</sub>B50: 50000 hours

**Housing**
- Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistant. Cable gland is used for maintaining ingress protection.

**Finish**
- Polyester powder coated grey after phosphochromate treatment.

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

**Light source**
- High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED ≥140 lm/W with PC lens to ensure better uniformity of light distribution.

**Electronic Driver**
- Inbuilt potted electronic LED driver with APFC (SMPS based constant current supply), lower THD, Open Circuit protection, Over Voltage protection, Surge Voltage protection & other safety test as per IS 15885 Part-2/Sec 13 and BIS comply.

**Mounting & Maintenance**
- Suitable for side entry, pole mounting with bracket arm OD 63 mm max. Recommended mounting height with suitable inground reinforcement is 9-12 m.

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing.

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tbody>
<tr>
<td>ENDURACITYLINERNEOSL170WLED57/PASYBQTG</td>
<td>170 W</td>
<td>240</td>
<td>0.750</td>
<td>18700</td>
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<tr>
<td>ENDURACITYLINERNEOSL200WLED57/PASYBQTG</td>
<td>200 W</td>
<td>240</td>
<td>0.890</td>
<td>22000</td>
<td>5700 K</td>
<td>≥110</td>
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Driver code: LSCELDLX0192
Dimmable version (1-10V) of Driver is available.

---

**TECHNICAL DRAWING**

**POLAR PLOT**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Mounting Bracket Dia (Ø)</th>
</tr>
</thead>
<tbody>
<tr>
<td>170 W / 200 W</td>
<td>595</td>
<td>291</td>
<td>85</td>
<td>63</td>
</tr>
</tbody>
</table>

All dimensions are in mm | Tolerance: ± 5 mm
Flood lights

Introducing the wide range of outdoor application LED products from Havells. This range is yet another example of Havells’ endeavour to innovate and provide world class lighting solution, energy efficient products and robust design. These lights are designed to fulfill the lighting applications of City Road Lighting, Periphery Lighting, Prestigious Heritage Area Outdoor Lighting and Urban Landscape Lighting.
JETA COMPACTO

Flood light

APPLICATIONS:
- CEMENT & STEEL PLANTS
- AREA LIGHT
- WAREHOUSES & PETROL PUMP
- SECURITY & PERIMETER LIGHT
- TOLL PLAZA

Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium flood light with high power LEDs as light source, suitable for highlighting architectural features or Area Lighting. Also suitable to rough services/ installations.
PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED’s
- 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-300 V
- Average life L_{70B50}: 50000 hours

Housing & Finish
- Die-cast aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistant. SS Hardwares, silicon gasket and M12 gland is used for cable entry for effective ingress protection.

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

Optics
- UV Stablized, symmetrical distribution polycarbonate lens. Tempered protective toughened glass 4 mm, thermal shock and impact resistant (IK-07) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM 79 report & IES file).

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

Mounting
- 2 elliptical slots of 10x30 mm with pitch center distance of 130 mm provided on Adjustable MS cradle for surface mounting.

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tbody>
<tr>
<td>JETACOMPECTOFL30WLED75LTG</td>
<td>30</td>
<td>240</td>
<td>0.135</td>
<td>3000</td>
<td>5700 K</td>
<td>≥100</td>
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<tr>
<td>JETACOMPECTOFL50WLED75LTG</td>
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<td>240</td>
<td>0.220</td>
<td>5000</td>
<td>5700 K</td>
<td>≥100</td>
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</table>

Driver code: LSSC0X0326 for 30 W, LSSC0X0328 for 50 W

TECHNICAL DRAWING

POLAR PLOT

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 W / 50 W</td>
<td>270</td>
<td>150</td>
<td>41.5</td>
</tr>
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</table>

All dimensions are in mm  | Tolerance: ± 5 mm
JETA NEO 70 W

Flood light

APPLICATIONS:
- CEMENT & STEEL PLANTS
- WAREHOUSES
- FACTORIES & ASSEMBLY LINES
- TOLL PLAZAS
- EXTERIOR CANOPIES
- SECURITY AND PERIMETER LIGHTING

Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP66 flood light, suitable for highlighting architectural facade and general purpose lighting.
PRODUCT SPECIFICATIONS

Features & Benefits
• Delivers excellent illumination & comfort
• Long life & photobiologically safe LED’s
• 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-300 V
• Average life L70B50: 50000 hours

Housing & Finish
Die-cast aluminium housing (heat sink) for efficient thermal management, sturdiness & excellent corrosion resistant. SS Hardwares, silicon gasket and Cable gland is used for cable entry for maintaining ingress protection.

Optics
UV Stablized, 60° beam angle, symmetrical distribution polycarbonate lens. Tempered protective toughened glass 4 mm, thermal shock and impact resistant (IK-07) fixed to the housing with aluminium frame and SS screws (for detailed photometric data, please refer LM 79 report & IES file).

Light source
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED >130 lm/W and viewing angle of 120° to ensure better uniformity.

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

Mounting & Maintenance:
Wall or surface mounting using adjustable MS cradle of thickness 2.5 mm provided with the fixture by 2 elliptical slots of 10x20 mm at center distance of 86 mm.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
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<tbody>
<tr>
<td>JETANEOFL70WLED757LTG</td>
<td>70 W</td>
<td>240</td>
<td>0.310</td>
<td>7000</td>
<td>5700 K</td>
<td>100</td>
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</table>

Driver code: LSSLOX0133.

TECHNICAL DRAWING

<table>
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<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 W</td>
<td>309</td>
<td>346</td>
<td>60</td>
</tr>
</tbody>
</table>

All dimensions are in mm | Tolerance: ± 5 mm

POLAR PLOT

[Diagram showing polar plot]
JETA IRIS 100 W /120 W

Flood light

APPLICATIONS:
- SIGN BOARDS
- BUILDING & MONUMENTS
- BILL BOARD
- SHOP BOARD
- AREA LIGHT
- TOLL PLAZA

Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP66 flood light, suitable for highlighting architectural facade and general purpose lighting.
**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED's
- 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

**Housing**
Epoxy powder coated die-cast aluminium housing (ADC12) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistant. M16 gland is used for cable entry and provision for loop-in-loop-out.

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

**Lens & Cover**
PC Lens with Asymmetric/symmetric light distribution and Toughened glass fixed to housing with 06 Nos screws (for detailed photometric data, please refer LM 79 report & IES file).

**Electronic Driver**
independent Potted IP67 electronic LED driver with APFC, lower THD, Open Circuit Protection, Over Voltage Protection, Surge Voltage Protection upto 10 kV With Built In SPD & other safety test as per IS 15885 Part-2/Sec 13, IEC60598-1.

**Mounting**
Wall or surface mounting using adjustable MS cradle of thickness 4 mm with SS angular dial is provided with the fixture for precise angular mounting of luminaire. Two elliptical slots of Ø10.0 mm at a distance of 130 mm is also provided on the cradle.

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Driver Construction</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V~)</th>
<th>Mains Current (A)</th>
<th>System Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
</tr>
</thead>
<tbody>
<tr>
<td>JETAIRISFLS100WLED757ASYMLTG</td>
<td>Non-Potted driver</td>
<td>100</td>
<td>240</td>
<td>0.420</td>
<td>11500</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
<tr>
<td>JETAIRISFLS100WLED757SYMLTG</td>
<td>Non-Potted driver</td>
<td>100</td>
<td>240</td>
<td>0.420</td>
<td>11500</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED730ASYMLTG</td>
<td>Non-Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>12600</td>
<td>3000 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED757ASYMLTG</td>
<td>Non-Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>13800</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED730SYMLTG</td>
<td>Non-Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>12600</td>
<td>3000 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED757SYMLTG</td>
<td>Non-Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>13800</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED730PSYMLTG</td>
<td>Potted driver</td>
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<td>240</td>
<td>0.505</td>
<td>12600</td>
<td>3000 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED757PSYMLTG</td>
<td>Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>13800</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED730PASYMLTG</td>
<td>Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>12600</td>
<td>3000 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>JETAIRISFLS120WLED757PASYMLTG</td>
<td>Potted driver</td>
<td>120</td>
<td>240</td>
<td>0.505</td>
<td>13800</td>
<td>5700 K</td>
<td>&gt;115</td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWING**

**POLAR PLOT**

- Asymmetric
- Symmetric

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Mounting Bracket Dia (Ø)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 W / 120 W</td>
<td>384</td>
<td>313</td>
<td>75</td>
<td>130</td>
</tr>
</tbody>
</table>

All dimensions are in mm | Tolerance: ±5 mm
JETA IRIS 140 W /150 W

Flood light

APPLICATIONS:
- Sign Boards
- Building & Monuments
- Bill Board
- Shop Board
- Area Lighting
- Toll Plaza

Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP66 flood light, suitable for highlighting architectural facade and general purpose lighting.
PRODUCT SPECIFICATIONS

Features & Benefits
• Delivers excellent illumination & comfort
• Long life & photobiologically safe LED’s
• 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

Housing
Epoxy powder coated die-cast aluminium housing (ADC12) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistant. M16 gland is used for cable entry and provision for loop-in-loop-out.

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

Lens & Cover
PC Lens with symmetric light distribution and Toughened glass fixed to housing with 06 Nos screws (for detailed photometric data, please refer LM 79 report & IES file).

Electronic Driver
Independent Potted IP67 electronic LED driver with APFC, lower THD, Open Circuit Protection, Over Voltage Protection, Surge Voltage Protection upto 10 kV With Built In SPD & other safety test as per IS 19885 Part-2/Sec 13, IEC60598-1.

Mounting:
Wall or surface mounting using adjustable MS cradle of thickness 4 mm with SS angular dial is provided with the fixture for precise angular mounting of luminaire. Two elliptical slots of Ø10.0 mm at a distance of 130 mm is also provided on the cradle.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tbody>
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<td>140 W</td>
<td>240</td>
<td>0.580</td>
<td>14000</td>
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<td>&gt;100</td>
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<td>JETAIRISFLS140WLED757PSYMLTG</td>
<td>140 W</td>
<td>240</td>
<td>0.580</td>
<td>15400</td>
<td>5700 K</td>
<td>&gt;110</td>
</tr>
<tr>
<td>JETAIRISFLS150WLED730PSYMLTG</td>
<td>150 W</td>
<td>240</td>
<td>0.660</td>
<td>15000</td>
<td>3000 K</td>
<td>&gt;100</td>
</tr>
<tr>
<td>JETAIRISFLS150WLED757PSYMLTG</td>
<td>150 W</td>
<td>240</td>
<td>0.660</td>
<td>16500</td>
<td>5700 K</td>
<td>&gt;110</td>
</tr>
</tbody>
</table>

TECHNICAL DRAWING

Polar Plot

All dimensions are in mm | Tolerance: ± 5 mm
JETA PRO PLUS

Flood light

APPLICATIONS:

• SIGN BOARDS
• BUILDING & MONUMENTS
• BILL BOARD
• SHOP BOARD
• SECURITY AND PERIMETER LIGHTING

Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP65 flood light with high power LEDs as light source, suitable for highlighting architectural facade highmast and general purpose lighting.
PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED’s
- 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

Housing
Epoxy powder coated pressure die-cast aluminium housing (ADC12) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistant. M16 gland is provided at cable entry for maintaining ingress protection.

Light source
High efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen efficacy of LED >130 lm/W and viewing angle of 120° to ensure better uniformity.

Optics
PC modular lens plate of beam angle 60º to ensure better uniformity of light distribution (for detailed photometric data, please refer LM 79 report & IES file).

Cover
High quality toughened glass IK 07 fixed to housing.

Electronic Driver
Powered by 2 Nos. integral, isolated electronic LED driver (SMPS based constant current supply) with lower THD, Output Open / Short Circuit protection, Over Voltage protection, Surge Voltage Protection with SPD (10 kV) & other safety test as per IS 15885 Part-2/Sec 13.

Mounting:
Wall or surface mounting using adjustable MS cradle of thickness 5 mm provided with the fixture by 2 elliptical slots of 13x40 mm at center distance of 178 mm.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>Nominal Voltage (V)</th>
<th>Mains Current (A)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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<tbody>
<tr>
<td>JETAPROPLUSFL120WLED757LTG</td>
<td>120 W</td>
<td>240</td>
<td>0.530</td>
<td>12000</td>
<td>5700 K</td>
<td>&gt;100</td>
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<tr>
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<td>150 W</td>
<td>240</td>
<td>0.660</td>
<td>15000</td>
<td>5700 K</td>
<td>&gt;100</td>
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<td>JETAPROPLUSFL180WLED757LTG</td>
<td>180 W</td>
<td>240</td>
<td>0.800</td>
<td>18000</td>
<td>5700 K</td>
<td>&gt;100</td>
</tr>
<tr>
<td>JETAPROPLUSFL200WLED757LTG</td>
<td>200 W</td>
<td>240</td>
<td>0.920</td>
<td>20000</td>
<td>5700 K</td>
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</tr>
<tr>
<td>JETAPROPLUSFL240WLED757LTG</td>
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<td>240</td>
<td>1.060</td>
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</table>

Driver code: LSCPR02037 for 120 W, LSCLED0247 for 150 W, SCPRX1870 for 180 W, SCPRX2023 for 200 W, CELDDX0182 for 240 W.

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (l) (mm)</th>
<th>Width (w) (mm)</th>
<th>Height (h) (mm)</th>
<th>Mounting Hole Distance (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 W / 150 W</td>
<td>398</td>
<td>288</td>
<td>252</td>
<td>150</td>
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<tr>
<td>180 W / 200 W</td>
<td>427</td>
<td>325</td>
<td>308</td>
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<tr>
<td>240 W</td>
<td>530</td>
<td>330</td>
<td>310</td>
<td>178</td>
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</tbody>
</table>

All dimensions are in mm | Tolerance: ± 5 mm

POLAR PLOT
JETA VALOUR FL 180 W /200 W

Flood light

Applications:
- Sign boards
- Building & Monuments
- Billboard
- Shop Board

New generation, Energy Saving, aesthetically designed LED Floodlight Module Pressure die-cast Aluminum housing & Non integral IP66 control gear for better thermal management with complete internal wiring. Control gear compartment capable of remote installation for easy maintenance.
**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED’s
- 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-300 V AC
- Average life $L_{70B50}$: 50000 hours

**Housing**
Epoxy powder coated pressure die-cast aluminium housing (ADC12) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistant.

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

**Optics**
PC modular lens plate to ensure Symmetric/ Asymmetric light distribution (for detailed photometric data, please refer LM 79 report & IES file)

**Cover**
High quality toughened glass IK 07 fixed to housing.

**Electronic Driver**
- Module should not be used directly with AC supply. Use suitable CG Box.
- Refer Page no 3 for technical data sheet of Control gear Box.

**Mounting**
Wall or surface mounting using adjustable MS cradle of thickness 4 mm with SS angular dial is provided with the fixture for precise angular mounting of luminaire. Two Elliptical slots of 14 mm Dia at center distance of 140 mm provided on the Cradle.

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SYMMETRIC LED MODULE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JETAVALOURFLS180WLED757MODSYM</td>
<td>180 W</td>
<td>19000</td>
<td>5700 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>JETAVALOURFLS200WLED757MODSYM</td>
<td>200 W</td>
<td>21000</td>
<td>5700 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td><strong>ASYMMETRIC LED MODULE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JETAVALOURFLS180WLED757MODASYM</td>
<td>180 W</td>
<td>19000</td>
<td>5700 K</td>
<td>&gt;105</td>
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<tr>
<td>JETAVALOURFLS200WLED757MODASYM</td>
<td>200 W</td>
<td>21000</td>
<td>5700 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWING**

**POLAR PLOT**

All dimensions are in mm
Tolerance: ± 5 mm

---

**HADELLS**
Flood light

APPLICATIONS:
- SIGN BOARDS
- BUILDING & MONUMENTS
- BILL BOARD
- SHOP BOARD
- HIGH MAST LIGHTING
- SECURITY AND PERIMETER LIGHTING

New generation, Energy Saving, aesthetically designed LED Floodlight Module Pressure die-cast Aluminum housing & Non integral IP66 control gear for better thermal management with complete internal wiring. Control gear compartment capable of remote installation for easy maintenance.
PRODUCT SPECIFICATIONS

Features & Benefits
• Delivers excellent illumination & comfort
• Long life & photobiologically safe LED’s
• No harmful UV & IR radiations
• Environment friendly as it does not contain Mercury
• Instant light with low running temperatures
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• Average life L70B50: 50000 hours

Housing
Epoxy powder coated pressure die-cast aluminium housing (ADC12) in grey finish with elegantly designed heat sink for efficient thermal management, sturdiness & excellent corrosion resistant.

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

Optics
PC modular lens plate to ensure better uniformity of light distribution (for detailed photometric data, please refer LM 79 report & IES file)

Cover
High quality toughened glass IK 07 fixed to housing.

Electronic Driver
* Module should not be used directly with AC supply. Use suitable CG Box.

Refer Page no 3 for technical data sheet of Control gear Box.

Mounting:
Wall or surface mounting using adjustable MS cradle of thickness 4 mm with SS angular dial is provided with the fixture for precise angular mounting of luminaire. Two Elliptical slots of 14mm Dia at center distance of 140mm provided on the Cradle.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
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</thead>
<tbody>
<tr>
<td>SYMMETRIC LED MODULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JETAVALOURFLS240WLED757MODSYMLTG</td>
<td>240 W</td>
<td>25200</td>
<td>5700 K</td>
<td>&gt;105</td>
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<tr>
<td>JETAVALOURFLS300WLED757MODSYMLTG</td>
<td>300 W</td>
<td>31500</td>
<td>5700 K</td>
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<tr>
<td>ASYMMETRIC LED MODULE</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JETAVALOURFLS240WLED757MODASYMLTG</td>
<td>240 W</td>
<td>25200</td>
<td>5700 K</td>
<td>&gt;105</td>
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<tr>
<td>JETAVALOURFLS300WLED757MODASYMLTG</td>
<td>300 W</td>
<td>31500</td>
<td>5700 K</td>
<td>&gt;105</td>
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TECHNICAL DRAWING

POLAR PLOT

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 W</td>
<td>356</td>
<td>135</td>
<td>398</td>
</tr>
<tr>
<td>300 W</td>
<td>356</td>
<td>135</td>
<td>338</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
JETA VALOUR FL 350 W /400 W

Flood light

APPLICATIONS:
• SIGN BOARDS
• BUILDING & MONUMENTS
• BILL BOARD
• SHOP BOARD
• HIGH MAST LIGHTING
• SECURITY AND PERIMETER LIGHTING

New generation, Energy Saving, aesthetically designed LED Floodlight Module. Pressure die-cast Aluminum housing & Non integral IP66 control gear for better thermal management with complete internal wiring. Control gear compartment capable of remote installation for easy maintenance.
PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED’s
- 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-300 V AC
- Average life L70B50: 50000 hours

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

Optics
PC modular lens plate to ensure better uniformity of light distribution (for detailed photometric data, please refer LM 79 report & IES file)

Cover
High quality toughened glass IK 07 fixed to housing.

Electronic Driver
* Module should not be used directly with AC supply. use suitable CG Box.

Refer Page no 3 for technical data sheet of Control gear Box.

Mounting:
Wall or surface mounting using adjustable MS cradle of thickness 4 mm with SS angular dial is provided with the fixture for precise angular mounting of luminaire. Two Elliptical slots of 14 mm Dia at center distance of 140 mm provided on the Cradle.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>System Power (W)</th>
<th>System Lumens (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYMMETRIC LED MODULE</td>
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<tr>
<td>JETAVALOURFLS350WLED757MODSYMLTG</td>
<td>350 W</td>
<td>36750</td>
<td>5700 K</td>
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<tr>
<td>JETAVALOURFLS400WLED757MODSYMLTG</td>
<td>400 W</td>
<td>42000</td>
<td>5700 K</td>
<td>&gt;105</td>
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<td>ASYMMETRIC LED MODULE</td>
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<tr>
<td>JETAVALOURFLS350WLED757MODASYMLTG</td>
<td>350 W</td>
<td>36750</td>
<td>5700 K</td>
<td>&gt;105</td>
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<td>JETAVALOURFLS400WLED757MODASYMLTG</td>
<td>400 W</td>
<td>42000</td>
<td>5700 K</td>
<td>&gt;105</td>
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</table>

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 W</td>
<td>355</td>
<td>135</td>
<td>503</td>
</tr>
<tr>
<td>400 W</td>
<td>355</td>
<td>135</td>
<td>503</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
CONTROL GEAR BOX & ACCESSORIES (JETA VALOUR)

Out door heavy duty Aluminum Pressure die Cast body control gear box housing suitable for Jeta Valour LED Flood light Module Upto 200W.

Specification

- Aerodynamic shaped Aluminum pressure Die Cast housing with powder coated in siemen’s grey shade.
- Built in facilitates housing of LED Electronic Driver.
- 3 knock-outs provided help loop-in-loop out connections if required.
- Fixed with 08 Nos. Screws & silicon gasket to ensure Ingress protection (IP66).
- Mounting brackets at back helps rigid fixing of CG box on to structure.
- Bottom knock-out for cable entry.
- Pre wired with built-in, isolated electronic LED driver with APFC (SMPS based constant current supply) with lower THD, Output Short / Open Circuit protection, Over Voltage protection, Surge Voltage protection upto 10 kV with SPD & other reliability test as perIS 15885 Part-2/Sec 13.

Operating voltage range - 140 V-300 V AC
Operating Temp Range - -10 deg to +50 deg.

Code for Cable
LSSLOW0278 - L.SPARE 5 C-CABLE 15M WITH IPCONNECTOR
LSSLOW0290 - L.SPARE 5 C-CABLE 25M WITH IPCONNECTOR

*Option Available -15 m & 25 m 5CX1.5 sq. mm connecting Grey wire to be ordered separately at extra cost.

* Only use these extension wire to avoid the product failure.

Accessories

* Option Available - 15 m & 25 m 5CX1.5 sq. mm connecting Grey wire to be ordered separately at extra cost.

Code for Cable
LSSLOW0278 - L.SPARE 5 C-CABLE 15M WITH IPCONNECTOR
LSSLOW0290 - L.SPARE 5 C-CABLE 25M WITH IPCONNECTOR

* Only use these extension wire to avoid the product failure.

Wiring Diagram For C.G Box
### Technical Data For CG BOX 180 W / 200 W

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>No. of CG box</th>
<th>CG box Wattage (W)</th>
<th>Total system power (W)</th>
<th>Driver construction</th>
<th>Voltage (V~)</th>
<th>Nominal Current (A)</th>
<th>Power factor</th>
<th>THD</th>
<th>Weight (in kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSEMCGBOXVALOUR180WS 1</td>
<td>180 W</td>
<td>180 W</td>
<td>Non-Potted Driver</td>
<td>240</td>
<td>0.800</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ASSEMCGBOXVALOUR200WS 1</td>
<td>200 W</td>
<td>200 W</td>
<td>Non-Potted Driver</td>
<td>240</td>
<td>0.920</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>2.5</td>
<td></td>
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<tr>
<td>ASSEMCGBOXVALOUR180WP 1</td>
<td>180 W</td>
<td>180 W</td>
<td>Potted Driver</td>
<td>240</td>
<td>0.800</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ASSEMCGBOXVALOUR200WP 1</td>
<td>200 W</td>
<td>200 W</td>
<td>Potted Driver</td>
<td>240</td>
<td>0.920</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>2.5</td>
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</tr>
</tbody>
</table>

### Technical Data For CG BOX 240 W / 300 W

<table>
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<tr>
<th>Ordering code</th>
<th>No. of CG box</th>
<th>CG box Wattage (W)</th>
<th>Total system power (W)</th>
<th>Driver construction</th>
<th>Voltage (V~)</th>
<th>Nominal Current (A)</th>
<th>Power factor</th>
<th>THD</th>
<th>Weight (in kg)</th>
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<tbody>
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<td>ASSEMCGBOXVALOUR80WS 1</td>
<td>80 W</td>
<td>240 W</td>
<td>Non-Potted Driver</td>
<td>240</td>
<td>1.050</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>5</td>
<td></td>
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<tr>
<td>ASSEMCGBOXVALOUR160WS 1</td>
<td>160 W</td>
<td>300 W</td>
<td>Non-Potted Driver</td>
<td>240</td>
<td>1.300</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>ASSEMCGBOXVALOUR80WP 1</td>
<td>80 W</td>
<td>240 W</td>
<td>Potted Driver</td>
<td>240</td>
<td>1.050</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>5</td>
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<tr>
<td>ASSEMCGBOXVALOUR160WP 1</td>
<td>160 W</td>
<td>300 W</td>
<td>Potted Driver</td>
<td>240</td>
<td>1.300</td>
<td>≥0.95</td>
<td>≤10%</td>
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### Technical Data For CG BOX 350 W / 400 W

<table>
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<tr>
<th>Ordering code</th>
<th>No. of CG box</th>
<th>CG box Wattage (W)</th>
<th>Total system power (W)</th>
<th>Driver construction</th>
<th>Voltage (V~)</th>
<th>Nominal Current (A)</th>
<th>Power factor</th>
<th>THD</th>
<th>Weight (in kg)</th>
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<tbody>
<tr>
<td>ASSEMCGBOXVALOUR200WS 2</td>
<td>200 W</td>
<td>400 W</td>
<td>Non-Potted Driver</td>
<td>240</td>
<td>1.750</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>5.5</td>
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<td>ASSEMCGBOXVALOUR170WP 2</td>
<td>175 W</td>
<td>350 W</td>
<td>Potted Driver</td>
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<td>1.520</td>
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<td>ASSEMCGBOXVALOUR200WP 2</td>
<td>200 W</td>
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<td>240</td>
<td>1.750</td>
<td>≥0.95</td>
<td>≤10%</td>
<td>5.8</td>
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</table>

### TECHNICAL DRAWING FOR CG BOX
GENERAL CONDITIONS OF BUSINESS

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

<table>
<thead>
<tr>
<th>HSN Code</th>
<th>Products Included</th>
<th>GST Applicable</th>
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<tbody>
<tr>
<td>9405</td>
<td>LED Fixtures and LED Drivers</td>
<td>12%</td>
</tr>
<tr>
<td>9405*</td>
<td>Conventional Fixtures</td>
<td>18%</td>
</tr>
<tr>
<td>8504</td>
<td>Ballast (Electronic, HID/ Ignitors)</td>
<td>18%</td>
</tr>
<tr>
<td>8543</td>
<td>Solar Street Lights/Mini Mast</td>
<td>5%</td>
</tr>
<tr>
<td>7308</td>
<td>Galvanized products</td>
<td>18%</td>
</tr>
<tr>
<td>8504*</td>
<td>Rest</td>
<td>18%</td>
</tr>
<tr>
<td>8039</td>
<td>Non-LED Lamps</td>
<td>18%</td>
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</tbody>
</table>

REGIONAL & BRANCH OFFICES:

NORTH - REGIONAL OFFICE: Corporate Office; QRG Towers, 2D, Sector-126, Expressway, Noida-201304, Tel: 0120-2331000, Delhi: Tel: 011-47676700, 23888200, 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, 2460353, Siliguri: Tel: 0353-2525907, Ranchi: 0651-2244861, 2244862, 2244866, 2244869, Jamshedpur: Tel: 0657-6542452, 06523463936, Patna: Tel: 0612-2207221, 2207222, 2207223, 2663318

WEST - REGIONAL OFFICE: Mumbai; 1271, Solitaire Corporate Park, Bldg. No. 12, 7th Floor, Andheri - Ghatkopar Link Road, Chakala, Andheri (East), Mumbai- 400093, Ph.: 022 - 67298600-602, Ahmedabad: Tel: 079-40811111, 40060738-740, Indore: Tel: 0731-2572340-41, 4009998 (Airtel), Rajkot: Tel: 0281-2481112, 2392123, Nagpur: Tel: 0712-2249032, 2242692, 2242699 Pune: Tel: 020-64016413 / 14, Raipur: Tel: 0771-4243400 / 01, Surat: Tel: 0261-2350137, Kutch: Tel: 0281-2481122, 2209999, Jabalpur: Tel: 0761-4064491


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