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 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 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 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.
Introduction of Plants

Neemrana Lighting Plant

Advanced technology cutting machine

Italian Robotised Box Bending Machines

Japanese Flexible CNC controlled steel fabrication process

Havells State of the art Luminaire Plant, Neemrana
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
## PRODUCT CODE NOMENCLATURE

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>TYPE</th>
<th>MOUNTING</th>
<th>WATTAGE</th>
<th>LED</th>
<th>Code of Colour Temp. (CCT)</th>
<th>DRIVER</th>
<th>BEAM</th>
<th>DRIVER COMPARTMENT</th>
<th>TYPE OF DIFFUSER</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAYBRITESAUCEHERBP200WLED757WBTOLTG</td>
<td>HB</td>
<td>P</td>
<td>200 W</td>
<td>LED</td>
<td>757</td>
<td>-</td>
<td>WB</td>
<td>TO</td>
<td>LTG</td>
<td>-</td>
</tr>
<tr>
<td>ENDUREAPREALSL15WLED757SASYTOPC</td>
<td>SL</td>
<td>-</td>
<td>15 W</td>
<td>LED</td>
<td>757</td>
<td>S</td>
<td>ASY</td>
<td>TO</td>
<td>PC</td>
<td>-</td>
</tr>
<tr>
<td>VENUSNEOHE2X2PLR18-42WLED857MOD</td>
<td>PL</td>
<td>R</td>
<td>34 W</td>
<td>LED</td>
<td>857</td>
<td>S</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Examples:

- **BAYBRITESAUCEHERBP200WLED757WBTOLTG**
  - PRODUCT NAME: BAYBRITESAUCEHERBP200WLED757WBTOLTG
  - TYPE: HB
  - MOUNTING: P
  - WATTAGE: 200 W
  - LED: LED
  - CCT: 757
  - DRIVER: -
  - BEAM: WB
  - DRIVER COMPARTMENT: TO
  - TYPE OF DIFFUSER: LTG
  - FINISH: -

- **ENDUREAPREALSL15WLED757SASYTOPC**
  - PRODUCT NAME: ENDUREAPREALSL15WLED757SASYTOPC
  - TYPE: SL
  - MOUNTING: -
  - WATTAGE: 15 W
  - LED: LED
  - CCT: 757
  - DRIVER: S
  - BEAM: ASY
  - DRIVER COMPARTMENT: TO
  - TYPE OF DIFFUSER: PC
  - FINISH: -

- **VENUSNEOHE2X2PLR18-42WLED857MOD**
  - PRODUCT NAME: VENUSNEOHE2X2PLR18-42WLED857MOD
  - TYPE: PL
  - MOUNTING: R
  - WATTAGE: 34 W
  - LED: LED
  - CCT: 857
  - DRIVER: S
  - BEAM: -
  - DRIVER COMPARTMENT: -
  - TYPE OF DIFFUSER: -
  - FINISH: -
Contents

LINEAR LIGHTING
Destello 50 12-13
Surface / suspended 14-15
Destello 70 16-17
Surface / suspended 18-19
Destello 50 Direct-Indirect 20-21
Techzone 22-23
Wingo LED 24-25
Consta LED Surface / Suspended 26-27
Savor LED Direct-Indirect 28-29
Licon Suspended Direct-Indirect 30-31
Mondo 32-33

PANEL LIGHTS
Venus Neo HE 2x2 18-42 MOD 36-37
Venus 42 W Tunable White 38-39
Venus Neo HE 4x1 40-41
Venus Neo HE 42 W Active 42-43
Venus Neo HE PIR 44-45
Piano 46-47
Pluto Neo 2x2 48-49
Pluto Neo 4x1 50-51
Pluto 2x1 52-53
Pluto 1x1 54-55
Endura Slim Pro Plus 2x2 56-57
Scoop 58-59
Pluto Surface 1x1 60-61
Pluto Surface 4x1 62-63
Pluto Surface 2x2 64-65

DOWNLIGHTERS
Orbit 68-69
Integra Neo 70-71
Integra Grand 72-73
Rise 74-75
Endura DL Neo 7/10 76-77
Endura DL Neo 12/15/18 78-79
Endura DL Neo 21/25 W 80-81
Ardor 82-83
Endura HO 84-85
Edgepro Round 86-87
Edgepro Square 88-89
Integra Neo Surface 90-91
Endura Neo DL Surface 92-93
Spirit 94-95
Sparkle Pro Fixed 96-97
Sparkle Pro Adjustable 98-99
Sparkle Pro Snoot 100-101

BATTENS & LAMPS
Lumiline 104-105
Endura Linear Neo 106-107
Stout Plus 108-109
Regal Batten LED 110-111

Technical Information 132-134
IP Ratings 135-136
Linear
Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

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

### 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 LED life L70B50: 50000 hours
- Continuous, stand alone installation option
- Architectural shapes available - "X", "+", "Y" & "L" on request.

**Housing & Finish**
- Aluminum extruded housing in white powder coated finish and ABS end caps.

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

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

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

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

### TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W</td>
<td>1137</td>
<td>53</td>
<td>76</td>
</tr>
<tr>
<td>36 W</td>
<td>1137</td>
<td>53</td>
<td>76</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

• Office
• Meeting rooms
• Educational facilities
• Museums
• Corridors and libraries

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>DESTELLO50LP/S25WLED840SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO50LP/S25WLED857SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>DESTELLO50LP/S36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO50LP/S36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Joining Kit: LSSLOX0347. To be ordered separately for continuous installations.
Mains Cable: LSSLOX0354. Mains Cable 3-Core 1.5m.
Driver code: LSSLOX0319 for 25 W, LSSLOX0320 for 36 W.

Options available:- 2255mm - 50 W / 72 W, 570mm - 13 W / 18 W
Special shapes:- “X”, “+”, “Y”, “L”
Also available in silver anodized finish.
Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels. The numerous installation types meet the needs of the most demanding lighting designers and make Destello the perfect solution for spaces of every shape.

**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 LED life L70B50: 50000 hours
- Continuous, stand alone installation option
- Architectural shapes available - “X”, “+”, “Y” & “L” on request.

**Housing & Finish**
Aluminum extruded housing in white powder coated finish and ABS end caps.

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

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

**Electronic Driver**
Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15888 Part 2/ Sec 13.

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

**TECHNICAL DRAWING**

**Dimensions**
<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W</td>
<td>1148</td>
<td>67</td>
<td>73</td>
<td>1140 x 55</td>
</tr>
<tr>
<td>36 W</td>
<td>1148</td>
<td>67</td>
<td>73</td>
<td>1140 x 55</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
**APPLICATIONS**
- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>DESTELLO50LR25WLED840SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO50LR25WLED857SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>DESTELLO50LR36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO50LR36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Joining Kit : LSSLOX0346. To be ordered separately for continuous installations.
Mains Cable : LSSLOX0254, Mains Cable 3-Core 1.5m.
Driver code : LSSLOX0319 for 25 W, LSSLOX0320 for 36 W.

Options available:- 2255 mm - 50 W /72 W, 570mm - 13 W /18 W
Special shapes:- “X”, “+”, “Y”, “L”
Also available in silver anodized finish.
Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

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

**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 LED life $L_{70B50}$: 50000 hours
- Continuous, stand alone installation option
- Architectural shapes available - “X”, “+”, “Y” & “L” on request.

**Housing & Finish**
Aluminum extruded housing in white powder coated finish and ABS end caps.

**Light source**
High efficiency long life LED package in integral module with lumen efficacy $>135$ lm/W and viewing angle of $120^\circ$ to ensure better uniformity.

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

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

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

**TECHNICAL DRAWING**

**Dimensions**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W</td>
<td>1137</td>
<td>74</td>
<td>89</td>
</tr>
<tr>
<td>36 W</td>
<td>1137</td>
<td>74</td>
<td>89</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
- Offices
- Meeting rooms
- Educational facilities
- Museums
- Corridors and Libraries

**LED** 25 W / 36 W **Life 50000 hours** **High Efficiency**

**POLAR DIAGRAM**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>DESTELLO70LP/S25WLED840SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO70LP/S25WLED857SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>DESTELLO70LP/S36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO70LP/S36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Joining Kit : LSSLOW0105 (To be ordered separately for continuous installations)
Mains Cable : 3-Core 1.5mtr : LSSLOX0354,
Driver code : LSSLOX0319 for 25 W, LSSLOX0320 for 36 W.

Options available:- 2273 mm - 50 W / 72 W, 588mm - 13 W / 18 W
Special shapes: “X”, “+”, “Y”, “L”
Also available in silver anodized finish.
Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across walls and ceilings. The minimal design offers a total-light effect providing outstanding visual comfort with reductions in luminance levels.

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

**DESTELLO 70 RECESS**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort.
- Long life & Photobiologically safe 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 LED life L70B50: 50000 hours
- Continuous, stand alone installation option
- Architectural shapes available - “X”, “+”, “Y” & “L” on request.

**Housing & Finish**
Aluminum extruded housing in white powder coated finish and ABS end caps.

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

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

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

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

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W</td>
<td>1148</td>
<td>90</td>
<td>89</td>
<td>1140 x 76</td>
</tr>
<tr>
<td>36 W</td>
<td>1148</td>
<td>90</td>
<td>89</td>
<td>1140 x 76</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

• Office
• Meeting rooms
• Educational facilities
• Museums
• Corridors and libraries

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>DESTELLO70LR25WLED840SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO70LR25WLED857SPMMAWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>DESTELLO70LR36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3400</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>DESTELLO70LR36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Joining Kit : LSSLOW0346 (To be ordered separately for continuous installations)
Mains Cable : 3-Core 1.5mtr : LSSLOX0354,
Driver code : LSSLOX0319 for 25 W, LSSLOX0320 for 36 W.

Options available:- 2273 mm - 50 W / 72 W, 588mm - 13 W /18 W
Special shapes: - "X", "+", "Y", "L"
Also available in silver anodized finish.
Destello LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across ceilings. The minimal design affords a total-light effect providing outstanding visual comfort with reductions in luminance levels, at the same time illuminates the ceiling with a harmonious and pleasant appearance.

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

**DESTELLO 50 DIRECT-INDIRECT**

<table>
<thead>
<tr>
<th>PRODUCT SPECIFICATIONS</th>
<th>TECHNICAL DRAWING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features &amp; Benefits</strong></td>
<td></td>
</tr>
<tr>
<td>• Delivers excellent illumination &amp; comfort.</td>
<td></td>
</tr>
<tr>
<td>• Long life &amp; Photobiologically safe LED’S</td>
<td></td>
</tr>
<tr>
<td>• High performance electronic driver ensures zero maintenance.</td>
<td></td>
</tr>
<tr>
<td>• No harmful UV &amp; IR radiations.</td>
<td></td>
</tr>
<tr>
<td>• Environment friendly as it does not contain Mercury.</td>
<td></td>
</tr>
<tr>
<td>• Instant light with low running temperatures.</td>
<td></td>
</tr>
<tr>
<td>• Operating temperature : - 10°C to +45°C</td>
<td></td>
</tr>
<tr>
<td>• Operating voltage range : 140 V - 270 V</td>
<td></td>
</tr>
<tr>
<td>• Average LED life : L₉₅: 50,000 hours</td>
<td></td>
</tr>
<tr>
<td>• Continuous, stand alone installation option</td>
<td></td>
</tr>
<tr>
<td>• Architectural shapes available - “X”, “+”, “Y” &amp; “L” on request.</td>
<td></td>
</tr>
<tr>
<td><strong>Housing &amp; Finish</strong></td>
<td></td>
</tr>
<tr>
<td>Aluminum extruded housing in white powder coated finish and ABS end caps.</td>
<td></td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td></td>
</tr>
<tr>
<td>High efficiency long life LED package in integral module with lumen efficacy &gt;135 lm/W and viewing angle of 120° to ensure better uniformity.</td>
<td></td>
</tr>
<tr>
<td><strong>Optics</strong></td>
<td></td>
</tr>
<tr>
<td>High transmittance PMMA opal diffuser for glare free symmetric light distribution.</td>
<td></td>
</tr>
<tr>
<td><strong>Electronic Driver</strong></td>
<td></td>
</tr>
<tr>
<td>Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection &amp; other reliability tests as per IS: 15885 Part 2/ Sec 13.</td>
<td></td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td></td>
</tr>
<tr>
<td>• Suitable for suspended/ surface mounting with height adjustable suspension kit as per the instruction manual provided with the fixture</td>
<td></td>
</tr>
<tr>
<td>• Also suitable for continuous mounting using joining kits. Refer accessories.</td>
<td></td>
</tr>
</tbody>
</table>

**Wattage**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 W</td>
<td>1137</td>
<td>53</td>
<td>82</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>DESTELLODILP36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>2910</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>DESTELLODILP36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3240</td>
<td>5700 K</td>
<td>≥90</td>
</tr>
</tbody>
</table>

Joining Kit : LSSLOX0347 : (To be ordered separately for continuous installations).
Mains Cable : 3-Core 1.5 m : LSSLOX0354
Driver code : LSSLOX0320

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

**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 LED life L70B50: 50000 hours
- Continuous, stand alone installation option

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

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

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

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

### Mounting
- Suitable for Recess mounting on techzone T-Bar as per installation manual provided with the fixture
- Can be installed in continuous mounting using joining kits.

### TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 W</td>
<td>1196</td>
<td>146</td>
<td>102</td>
<td>1184 x 132</td>
</tr>
</tbody>
</table>

All dimensions are in mm

Tolerance: ± 5 mm
APPLIEDS
- Armstrong Techzone ceiling

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>TECHZONE LR28WLED840SPMMAWH</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>2800</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>TECHZONE LR28WLED857SPMMAWH</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>2950</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER30WS
Wingo fully enhances the architectural geometries and visual comfort. Specially designed near to transparent optical system provides sufficient light levels on work planes, at the same time, illuminates the ceiling with a harmonious and pleasant appearance.

**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 LED life L_70B_50: 50000 hours.

**Housing & Finish**
Made up of high quality extruded aluminum anodized channel for effective thermal management, sturdiness and excellent corrosion resistant. Decorative grain finish ABS endcaps snap fitted to the housing, to enhance aesthetic appeal of the fixture.

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

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

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

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

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 W</td>
<td>1112</td>
<td>280</td>
<td>48</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

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

POLAR DIAGRAM

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>WINGOLP40WLED830SPMMABLKL</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>2190</td>
<td>3000 K</td>
<td>≥65</td>
</tr>
<tr>
<td>WINGOLP40WLED840SPMMABLKL</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>2430</td>
<td>4000 K</td>
<td>≥70</td>
</tr>
<tr>
<td>WINGOLP40WLED857SPMMABLKL</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>2700</td>
<td>5700 K</td>
<td>≥75</td>
</tr>
</tbody>
</table>

Driver code: LD36V0900PA(N).
Suspended/ Surface mounted architectural luminaire provides uniquely clean and simple lighting system with soft light and glare free illumination. Available in continuous mounting option, Consta is the ideal solution for every space.

**CONSTA LED SURFACE / SUSPENDED**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**

- Delivers excellent illumination & comfort.
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L70B50: 50000 hours

**Light source**

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

**End caps**

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

**Cover**

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

**Electronic Driver**

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

**Mounting**

- Can be suspended with height adjustable suspension kit as per the instruction manual provided with the fixture.
- Can be installed in continuous row with click shut mechanism as per the instruction manual provided with the fixture.

**Housing & Finish**

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

**Light source**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Suspension Wire Distance (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 W</td>
<td>600</td>
<td>106</td>
<td>60</td>
<td>544</td>
</tr>
<tr>
<td>40 W</td>
<td>1200</td>
<td>106</td>
<td>60</td>
<td>1144</td>
</tr>
</tbody>
</table>

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

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

---

**POLAR DIAGRAM**

- 90º-90º
- 60º-60º
- 30º
- CO/C180: C90/C270:

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>CONSTA544LP20WLED830SPMMAWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>CONSTA544LP20WLED840SPMMAWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>1900</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>CONSTA544LP20WLED857SPMMAWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>2000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>CONSTA1144LP40WLED830SPMMAWH</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>CONSTA1144LP40WLED840SPMMAWH</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>3800</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>CONSTA1144LP40WLED857SPMMAWH</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>4000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: LSSCRX1763 for 20 W, LSSCRX1763 - 2 nos. for 40 W.
SABER LED luminaire merges classic styling with cutting edge technology to provide quality illumination and superior optical control. Use of direct/indirect LED light engines makes it excellent choice for low height ceiling applications and areas where ceiling uniformity and indirect lighting is important.

**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 LED life Lₐ₀: 50,000 hours
- Continuous, stand alone installation option
- Architectural shapes available - ”X”, “+”, “Y” & “L” on request.

**Housing & Finish**
Aluminum extruded housing in white powder coated finish and ABS end caps.

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

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

**Electronic Driver**
Powered by an integral isolated low THD electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection & other reliability tests as per IS: 15886 Part 2/ Sec 13.

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

**Housing & Finish**
Aluminum extruded housing in white powder coated finish and ABS end caps.

**Technical Drawing**

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wattage</td>
<td>36 W</td>
</tr>
<tr>
<td>Length l</td>
<td>1283 mm</td>
</tr>
<tr>
<td>Width w</td>
<td>163 mm</td>
</tr>
<tr>
<td>Height h</td>
<td>46 mm</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>SABERLP36WLED840SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>4140</td>
<td>5700 K</td>
<td>≥115</td>
</tr>
<tr>
<td>SABERLP36WLED857SPMMAWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3720</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

Joining Kit : LSSLOX0350 : (To be ordered separately for continuous installations).
Mains Cable : 3-Core 1.5mtr : LSSLOX0354
Driver code : LSSLOX0320
Licon LED introduces a uniquely clean, simple lighting system offering continuous, uniform lines of light across ceilings. The minimal design affords a total-light effect providing outstanding visual comfort with reductions in luminance levels, at the same time illuminates the ceiling with a harmonious and pleasant appearance.

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

**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 LED life L<sub>70</sub>B<sub>50</sub>: 50000 hours.

**Housing & Finish**
Aluminum extruded housing in silver powder coated finish.

**Light source**
High efficiency long life LED package in integral module with lumen efficacy >135 lm/W and viewing angle of 120 degree to ensure better uniformity.

**Optics**
High transmittance polycarbonate opal diffuser for glare free and low luminance direct, indirect and sideways light distribution. Upward and downward light ratio- 37:63.

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

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

**TECHNICAL DRAWING**

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 W</td>
<td>1206</td>
<td>170</td>
<td>40</td>
</tr>
</tbody>
</table>

All dimensions are in mm. Tolerance: ± 5 mm.
APPLICATIONS
• Workstations
• Meeting rooms/cabins
• Classrooms
• Libraries
• Reception

POLAR DIAGRAM

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>LICONLP36WLED830SPCGRY</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3560</td>
<td>3000 K</td>
<td>≥98</td>
</tr>
<tr>
<td>LICONLP36WLED840SPCGRY</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3780</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>LICONLP36WLED857SPCGRY</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3960</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

Driver code: LSSCRX2307
Accessories:
Primary suspension kit with mains cable to be ordered separately- LSCFEFLOP031
Energy saving, environmental friendly, long life, decorative, corrosion resistant, surface-suspended luminaires with PS diffuser and extruded aluminium housing with LEDs as light source.

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- 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 LED life L70B50: 50000 hours

Housing & Finish
Aluminum extrusion heat sink for effective thermal management, sturdiness and excellent corrosion resistant fitted in white finish.

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

Optics
PS diffuser in opal finish for glare free uniform light distribution.

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

Mounting
Suitable for suspended/ surface mounting as per the instruction manual provided with the fixture.

TECHNICAL DRAWING

Housing & Finish

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Dia Ø (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 W</td>
<td>400</td>
<td>70</td>
</tr>
<tr>
<td>36 W</td>
<td>600</td>
<td>70</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
Applications

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

**Technical Data**

<table>
<thead>
<tr>
<th>Description</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>MONDO400RDP/S25WLED830SPSWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2070</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>MONDO400RDP/S25WLED840SPSWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2180</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>MONDO400RDP/S25WLED857SPSWH</td>
<td>25 W</td>
<td>240</td>
<td>≥80</td>
<td>2300</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
<tr>
<td>MONDO600RDP/S36WLED830SPSWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>2900</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>MONDO600RDP/S36WLED840SPSWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3050</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>MONDO600RDP/S36WLED857SPSWH</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3200</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

Driver code: LSSLOX0319 for 25 W, LSSLOX0320 for 36 W.

LSSLOX0349 - Surface mounting kit
LSSLOX0348 - Suspension kit

Note: Surface mounting kit & suspension kit are not a part of standard packing. To be ordered separately.
Panels
Ultra modern recess mounting luminaire with high performance LEDs, suitable for mounting with Armstrong/Grid ceiling.

VENUS NEO HE 2X2 18-42 W MOD

Product Specifications

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- 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 LED life L_{70B50}: 50000 hours

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

Light source
High efficiency long life LED package in integral module with lumen efficacy of ≥110 lm/W and viewing angle of 120° to ensure better uniformity.

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

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

Mounting
Suitable only for Armstrong/Grid ceiling.

Technical Drawing

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 W / 24 W / 28 W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
<tr>
<td>34 W / 36 W / 42 W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>VENUSNEO1-10V2X2PLR34WLED840MOD</td>
<td>18-42 W</td>
<td>36</td>
<td>≥80</td>
<td>1800-3600</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEO1-10V2X2PLR34WLED857MOD</td>
<td>18-42 W</td>
<td>36</td>
<td>≥80</td>
<td>1880-3780</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2PLR18-42WLED840MOD</td>
<td>18-42 W</td>
<td>36</td>
<td>≥80</td>
<td>2000-3960</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2PLR18-42WLED857MOD</td>
<td>18-42 W</td>
<td>36</td>
<td>≥80</td>
<td>2020-3980</td>
<td>6500 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

Ordering: Module + Driver (driver to be ordered separately)


Driver code for Dali: LEDDRIVER30V28WDALI for 28 W, LEDDRIVER30V34WDALI 34 W

Available in Dali and Analog Dimming on request.

Alluminium Frame POP/GYPSUM-LSSLOW0252
Ultra modern recess mounting luminaire with high performance LEDs, suitable for mounting with Armstrong/Grid ceiling.

VENUS 42 W TUNABLE WHITE

PRODUCT SPECIFICATIONS

Features & Benefits

- Human-centric property, thus makes public spaces more human
- Provides improved productivity, better moods and overall happier workplaces.
- Controlled by App (Bluetooth connectivity).
- Offers unprecedented control over your interior environment.
- Offers visually comfortable environment
- Optional pre-set color temperatures or adjust to any CCT in the Productivity Range 3000 K - 5700 K
- Dimming Range 10%-100%
- 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 LED life L70_B50: 50000 hours

Housing & Finish

CRCA powder coated white after phosphochromate treatment.

Light source

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

Optics

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

Electronic Driver

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

Bluetooth Dimmable Converter

Bluetooth 1-10 V Convertor 2CH required for controlling the CCT in the productivity range 3000 K to 5700 K and dimming.

Mounting

Suitable only for Armstrong/Grid ceiling.

Wiring diagram-refer installation instruction

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

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cutout Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
Alluminium Frame POP/GYPSUM-LSSLOW0252

APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>VENUSNEOTW2X2PLR42WLED + TWMOD</td>
<td>42 W</td>
<td>30</td>
<td>≥80</td>
<td>4000-4300</td>
<td>3000 K - 5700 K</td>
<td>up to ≥100</td>
</tr>
</tbody>
</table>

Bluetooth 1-10 V Convertor 2CH required - **BLUETOOTH1** - **BLUETOOTH1-10 VCONV42 W**
Ordering: Fixture + Bluetooth Device (1 bluetooth can control up to 4 fixtures).

Spare Driver code: 1-10 V ANALOG DIMMABLE Driver (BIS approved): LSSCRX1795 - 2 nos.

App: “Havells Smart App” available on Play store / iOS store for Android/ iOS users.
Environmental friendly, new generation, aesthetically designed, ultra modern recess mounting luminaire with high brightness SMD LEDs as light source, suitable for Armstrong/Grid ceiling.

VENUS NEO HE 4X1

PRODUCT SPECIFICATIONS

Features & Benefits
- Excellent efficacy & performance suitable for high ceiling areas
- 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 LED life L70B50: 50000 hours

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Suitable only for Armstrong/Grid ceiling.

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>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
<td>1180 x 280</td>
</tr>
<tr>
<td>36 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
<td>1180 x 280</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>VENUSNEOHE4X1PLR28-36WLED830MOD</td>
<td>28-36 W</td>
<td>36</td>
<td>≥80</td>
<td>2700-3560</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE4X1PLR28-36WLED840MOD</td>
<td>28-36 W</td>
<td>36</td>
<td>≥80</td>
<td>2850-3750</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE4X1PLR28-36WLED857MOD</td>
<td>28-36 W</td>
<td>36</td>
<td>≥80</td>
<td>3000-3700</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

Driver codes:- LEDDRIVER36V28WS for 28 W, LEDDRIVER36V34WS for 34 W, LEDDRIVER36V36WS for 36 W
The Venus Active is a range LED recessed Panels with Occupancy + light sensor. The range is perfect for general and office lighting applications such as circulation areas, corridors and breakout areas, and has a self learning feature for auto programming.

**VENUS NEO HE 42 W ACTIVE**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in high ceiling areas
- High performance electronic driver ensures zero maintenance
- 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
- Operating temperature: -10° C to +45° C
- Operating Voltage : 198 VAC - 264 VAC
- Average LED life L70B50: 50000 hours

**Housing**
- CRCA powder coated white after phosphochromate treatment.

**Light source**
- High efficiency long life LED package with lumen efficacy of 140 lm/W with a viewing angle of 120° to ensure better lumen output (For detailed photometric data, please refer LM79 report & IES file).

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

**Electronic Driver**
- 1. Isolated , SELV output Electronic Driver with Output Short-circuit protection, Surge Voltage protection and other safety & performance test as per IS:15885 Part 2/ Sec 13.

**Active Features :**
1. Small and inconspicuous, it does not change the appearance of the luminaires.
2. Active uses 60-70 hours to learn about its environment - external daylight conditions, and other luminaires around it.
3. Active brings added features - presence detection, daylight harvesting and seamless and comfortable dimming

**Operation of Active Luminaire**
1. If the luminaire is alone, such as a storage room, cupboard, copy room etc. then the luminaire goes to minimum level and OFF in 10 minutes.
2. If the luminaire is one of many luminaires, then the light stays on minimum level for more than an hour before switching OFF. This is done not to disturb other people in the working area and to create a safe and comfortable lighting scene. When the luminaire is affected by additional external light, i.e. close to a window, energy saving is utilized over the entire dynamic dimming area: 25-100 % When there is no external light affecting the luminaire additional energy saving cannot be utilized by daylight harvesting. The minimum light level is in this case clamped to 80 %, which ensures stable and reliable functioning of several luminaire sensors acting close to each other, preventing “waving effect” of sensors.

**Mounting**
- Suitable only for Armstrong/Grid ceiling.

**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>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>VENUSNEOHE2X2R42WLED830ACTIVE</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>3850</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R42WLED840ACTIVE</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4200</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R42WLED857ACTIVE</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4250</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

OPERATION OF ACTIVE SENSOR

- Constant Light Coverage
- Presence Detection Coverage
The Venus PIR is a range LED recessed Panels with Occupancy sensor. The range is perfect for general and office lighting applications such as circulation areas, corridors and breakout areas.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in high ceiling areas
- High performance electronic driver ensures zero maintenance
- 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
- Operating temperature: -10° C to +45° C
- Operating Voltage : 140 V - 270 V AC
- Average LED life L70B50: 50000 hours

**Housing**
CRCA powder coated white after phosphochromate treatment.

**Light source**
High efficiency long life LED package with lumen efficacy of 140lm/W with a viewing angle of 120° to ensure better lumen output (For detailed photometric data, please refer LM 79 report & IES file).

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

**Electronic Driver**
1. Isolated , SELV output Electronic Driver with Output Short-circuit protection, Surge Voltage protection and other safety & performance test as per IS:15885 Part 2/Sec 13.

**PIR Features**
1. PIR sensors allow you to sense motion, almost always used to detect whether a human has moved in or out of the sensors range.
2. They are small, inexpensive, low-power, easy to use and don’t wear out.

**Operation of PIR Luminaire**

**Dip switch 1:**
When turned to SUN mode (down) it will work day & night, when turned to MOON mode (up) it will only work when the ambient light is less than 10 lux.

**Dip switch 2:**
In up position sensor will work with detection range of 3 m & in down position sensor will work with detection range of 6m.

**Dip switch 3-8:**
To select time delay, move the desired dip switch upwards to activate it, time delay options are 5s, 30s, 1min, 5min, 8min, in case of multiple selection it will consider the minimum time selected.

**Mounting**
Suitable only for Armstrong/Grid ceiling.

**TECHNICAL DRAWING**

**System**
<table>
<thead>
<tr>
<th>Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### APPLICATIONS
- Airport lounges
- Corporate offices
- Banks & ATM outlets
- Modern work spaces
- Hospital premises

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>VENUSNEOHE2X2R18WLED830PIR</td>
<td>18 W</td>
<td>240</td>
<td>&gt;80</td>
<td>1800</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R18WLED840PIR</td>
<td>18 W</td>
<td>240</td>
<td>&gt;80</td>
<td>1890</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R18WLED857PIR</td>
<td>18 W</td>
<td>240</td>
<td>&gt;80</td>
<td>1980</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R20WLED830PIR</td>
<td>20 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2000</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R20WLED840PIR</td>
<td>20 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2100</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R20WLED857PIR</td>
<td>20 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2200</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R24WLED830PIR</td>
<td>24 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2400</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R24WLED840PIR</td>
<td>24 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2520</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R24WLED857PIR</td>
<td>24 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2640</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R28WLED830PIR</td>
<td>28 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2800</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R28WLED840PIR</td>
<td>28 W</td>
<td>240</td>
<td>&gt;80</td>
<td>2940</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R28WLED857PIR</td>
<td>28 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3080</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R34WLED830PIR</td>
<td>34 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3400</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R34WLED840PIR</td>
<td>34 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3570</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R34WLED857PIR</td>
<td>34 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3740</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R36WLED830PIR</td>
<td>36 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3600</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R36WLED840PIR</td>
<td>36 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3780</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>VENUSNEOHE2X2R36WLED857PIR</td>
<td>36 W</td>
<td>240</td>
<td>&gt;80</td>
<td>3960</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

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

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in high ceiling areas
- 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 LED life L₀,B₅₀: 50,000 hours

**Housing & Finish**
CRCA powder coated white after phosphochromate treatment.

**Light source**
High efficiency long life LED package in integral module with lumen efficacy of >150 lm/W and viewing angle of 120° to ensure better uniformity.

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

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

**Mounting**
Suitable only for Armstrong/Grid ceiling.

**SYSTEM**

<table>
<thead>
<tr>
<th>Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-36 W</td>
<td>595</td>
<td>595</td>
<td>65</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>PLANO2X2PLR18WLED840S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>2160</td>
<td>4000 K</td>
<td>≥120</td>
</tr>
<tr>
<td>PLANO2X2PLR18WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>2340</td>
<td>5700 K</td>
<td>≥130</td>
</tr>
<tr>
<td>PLANO2X2PLR24WLED830S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>2520</td>
<td>3000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>PLANO2X2PLR24WLED840S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>2760</td>
<td>4000 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLANO2X2PLR24WLED857S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>3120</td>
<td>5700 K</td>
<td>≥130</td>
</tr>
<tr>
<td>PLANO2X2PLR28WLED830S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>2940</td>
<td>3000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>PLANO2X2PLR28WLED840S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3220</td>
<td>4000 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLANO2X2PLR28WLED857S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3640</td>
<td>5700 K</td>
<td>≥130</td>
</tr>
<tr>
<td>PLANO2X2PLR34WLED830S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3400</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLANO2X2PLR34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3740</td>
<td>4000 K</td>
<td>≥110</td>
</tr>
<tr>
<td>PLANO2X2PLR34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>4080</td>
<td>5700 K</td>
<td>≥120</td>
</tr>
<tr>
<td>PLANO2X2PLR36WLED830S</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3600</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLANO2X2PLR36WLED840S</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3960</td>
<td>4000 K</td>
<td>≥110</td>
</tr>
<tr>
<td>PLANO2X2PLR36WLED857S</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>4320</td>
<td>5700 K</td>
<td>≥120</td>
</tr>
</tbody>
</table>

Driver code: LSSCRX2239 for 18 W, LSSCRX2204 for 24 W, LSSCRX2175 for 28 W, LSSCRX2206 for 34 W, LSSCRX2208 for 36 W.

### APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

**Driver code:** LSSCRX2239 for 18 W, LSSCRX2204 for 24 W, LSSCRX2175 for 28 W, LSSCRX2206 for 34 W, LSSCRX2208 for 36 W.
Environmental friendly, new generation, aesthetically designed, ultra modern recess mounting luminaire with high brightness SMD LEDs as light source, suitable for Armstrong/Grid ceiling.

PLUTO NEO 2x2

PRODUCT SPECIFICATIONS

Features & Benefits
- Excellent efficacy & performance suitable for high ceiling areas
- 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 LED life L70B50: 50000 hours

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Suitable only for Armstrong ceiling.

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>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 W</td>
<td>595</td>
<td>595</td>
<td>70</td>
<td>580 x 580</td>
</tr>
<tr>
<td>34 W</td>
<td>595</td>
<td>595</td>
<td>70</td>
<td>580 x 580</td>
</tr>
<tr>
<td>42 W</td>
<td>595</td>
<td>595</td>
<td>70</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>PLUTONEO2X2PLR28WLED840S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3240</td>
<td>4000 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR28WLED857S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3360</td>
<td>5700 K</td>
<td>≥120</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3740</td>
<td>4000 K</td>
<td>≥110</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3910</td>
<td>5700 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR42WLED840S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4410</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR42WLED857S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4620</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

Driver code: LED DRIVER30WS for 28 W, LEDDRIVERVENUSNEO36WS for 34 W, LEDDRIVERVENUSNEO42WS for 42 W.

技术数据

<table>
<thead>
<tr>
<th>描述</th>
<th>系统功率</th>
<th>电压 (V)</th>
<th>CRI</th>
<th>流明 (lm)</th>
<th>颜色温度 (CCT)</th>
<th>系统照度效率 (lm/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUTONEO2X2PLR28WLED840S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3240</td>
<td>4000 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR28WLED857S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>3360</td>
<td>5700 K</td>
<td>≥120</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3740</td>
<td>4000 K</td>
<td>≥110</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3910</td>
<td>5700 K</td>
<td>≥115</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR42WLED840S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4410</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>PLUTONEO2X2PLR42WLED857S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4620</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
</tbody>
</table>

驱动代码: LED DRIVER30WS 28 W, LEDDRIVERVENUSNEO36WS 34 W, LEDDRIVERVENUSNEO42WS 42 W.

高效率 LED | 28 W / 34 W / 42 W | L50 50000 小时
Environmental friendly, new generation, aesthetically designed, ultra modern recess mounting luminaire with high brightness SMD LEDs as light source, suitable for Armstrong/Grid ceiling.

PLUTO NEO 4X1

PRODUCT SPECIFICATIONS

Features & Benefits
- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe 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 LED life L70B50: 50000 hours

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Suitable only for Armstrong/Grid ceiling.

SYSTEM

<table>
<thead>
<tr>
<th>Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
<td>1180 x 280</td>
</tr>
<tr>
<td>36 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
<td>1180 x 280</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

TECHNICAL DRAWING

HALELLS
APPLICATIONS

- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>PLUTONEO4X1PLR30WLED840S</td>
<td>30 W</td>
<td>240</td>
<td>≥80</td>
<td>3080</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLUTONEO4X1PLR30WLED857S</td>
<td>30 W</td>
<td>240</td>
<td>≥80</td>
<td>3300</td>
<td>5700 K</td>
<td>≥110</td>
</tr>
<tr>
<td>PLUTONEO4X1PLR36WLED840S</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3850</td>
<td>4000 K</td>
<td>≥105</td>
</tr>
<tr>
<td>PLUTONEO4X1PLR36WLED857S</td>
<td>36 W</td>
<td>240</td>
<td>≥80</td>
<td>3950</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER30WS for 30 W, LEDDRIVERVENUSNEO36WS for 36 W.
High efficacy 2x1 recess flat panel with high brightness LED for glare-free homogeneous illumination, suitable for recessed mounting, Armstrong/POP/GB ceiling.

**PLUTO 2X1**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life $L_{70B50}$: 50000 hours

**Housing & Finish**
- CRCA powder coated white after phosphochromate treatment.

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

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

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

**Mounting**
- Suitable only for Armstrong/Grid & POP ceiling.

<table>
<thead>
<tr>
<th>System</th>
<th>Length (l)</th>
<th>Width (w)</th>
<th>Height (h)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 W</td>
<td>595</td>
<td>295</td>
<td>70</td>
<td>580 x 280</td>
</tr>
<tr>
<td>28 W</td>
<td>595</td>
<td>295</td>
<td>70</td>
<td>580 x 280</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>PLUTO2X1PLR20WLED840S</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>1920</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>PLUTO2X1PLR20WLED857S</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>2000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLUTO2X1PLR28WLED840S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>2840</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLUTO2X1PLR28WLED857S</td>
<td>28 W</td>
<td>240</td>
<td>≥80</td>
<td>2960</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

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

---

**POLAR DIAGRAM**

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

---

**Description**

- 20 W / 28 W
- Life 50000 hours
- High Efficiency

---

**IS 15885 (Part 2/Sec 1.3)**

- R-85000812
High efficacy 1x1 recess LED flat panel with high brightness LED for glare-free homogenous illumination, suitable for Armstrong/POP/GB ceiling.

**PLUTO 1X1**

## PRODUCT SPECIFICATIONS

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

**Housing & Finish**
CRCA powder coated white after phosphochromate treatment.

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

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

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

**Mounting**
Suitable only for Armstrong/Grid & POP ceiling.

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 W</td>
<td>295</td>
<td>295</td>
<td>70</td>
<td>280 x 280</td>
</tr>
<tr>
<td>15 W</td>
<td>295</td>
<td>295</td>
<td>70</td>
<td>280 x 280</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 3 mm
APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

POLAR DIAGRAM

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>PLUTO1X1PLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1125</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>PLUTO1X1PLR15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1200</td>
<td>5700 K</td>
<td>≥80</td>
</tr>
</tbody>
</table>

Driver code: LHGDADAFQQA1015.
Ultra Slim recess mounted luminaire with high brightness LED package and unique pattern acrylic de-glaring diffuser sheet for glare free uniform light distribution suitable for armstrong / grid ceiling.

ENDURA SLIM PRO PLUS 2X2

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in high ceiling areas
- 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 LED life $L_{70B50}$: 50000 hours

**Housing & Finish**
White Powder coated aluminum extruded frame for better thermal management & CRCA sheet used as a back cover and fixed with aluminum extrusion through SS Screws.

**Light source**
- High efficiency long life LED package in integral module with lumen efficacy of $\geq 140$ lm/W and viewing angle of 120° to ensure better uniformity.

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

**Electronic Driver**
- Powered by independent isolated, SELV output electronic driver (SMPS based constant current supply) with Short-circuit protection, Over Voltage protection & other safety test as per IS:15885 Part 2/Sec 13.
- Connector is provided at the back of the fixture for input supply connection.

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

**TECHNICAL DRAWING**

**_SYSTEM_**

<table>
<thead>
<tr>
<th>Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 W / 36 W</td>
<td>595</td>
<td>595</td>
<td>11</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

• Conference Room
• Meeting Room
• Work stations
• Airport lounges
• Banks
• Hospital
• Hotel Lobbies

TECHNICAL DATA (Driver to be ordered separately)

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI ≥ 80</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDURASLIMPROPLUS2X2PLR28/36WLED840MOD</td>
<td>28/36 W</td>
<td>240</td>
<td>≥80</td>
<td>3250</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURASLIMPROPLUS2X2PLR28/36WLED857MOD</td>
<td>28/36 W</td>
<td>240</td>
<td>≥80</td>
<td>3430</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER36V28WS for 28 W and LEDDRIVER36V36WS for 36 W.

Ordering : - Module + Driver

Alluminium Frame POP/GYPSUM-LSSLOW0252

Driver code : LEDDRIVER36V28WS for 28 W and LEDDRIVER36V36WS for 36 W.

Ordering :- Module + Driver

Alluminium Frame POP/GYPSUM-LSSLOW0252
Innovative direct/indirect luminaires suitable for Armstrong/grid ceiling with high brightness LEDs and conical de-glaring prism center panel for efficient down light.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life $L_{70B50}$: 50000 hours

**Housing & Finish**
CRCA white powder coated after phosphochromate treatment.

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

**Optics**
Unique pattern acrylic de-glaring diffuser sheet for glare-free uniform light distribution in the center.
High quality polycarbonate opal diffuser sheet at the sides for glare-free soft light.

**Electronic Driver**
Powered by independent isolated, SELV output Electronic Driver (SMPS based constant current supply) with Short-circuit protection, Over Voltage protection & other Safety tests as per IS:15885 Part 2/Sec 13.
Connector is provided at the back of the fixture for input supply connection.

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

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cutout Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 W</td>
<td>595</td>
<td>595</td>
<td>76</td>
<td>580 x 580</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
Applications

- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

**Technical Data**

<table>
<thead>
<tr>
<th>Description</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>SCOOP2X2PLR34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>2850</td>
<td>4000 K</td>
<td>≥83</td>
</tr>
<tr>
<td>SCOOP2X2PLR34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3000</td>
<td>5700 K</td>
<td>≥88</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER30 WS.

**Alluminium Frame POP/GYPSUM-LSSLOW0252**
Aesthetically designed 1x1 LED flat panels for surface mounting which provides soft-light and glare-free symmetrical illumination.

PLUTO SURFACE 1X1

PRODUCT SPECIFICATIONS

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

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Provision for surface mounting through 4 holes (nos.) of Ø5 mm provided at the back of the fixture.

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>15 W</td>
<td>295</td>
<td>295</td>
<td>70</td>
</tr>
<tr>
<td>15 W</td>
<td>295</td>
<td>295</td>
<td>70</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 3 mm
Applications:
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

Technical Data:

<table>
<thead>
<tr>
<th>Description</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>PLUTOSURFACE 1X1PLS15 WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1125</td>
<td>4000 K</td>
<td>≥75</td>
</tr>
<tr>
<td>PLUTOSURFACE 1X1PLS15 WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1180</td>
<td>5700 K</td>
<td>≥78</td>
</tr>
</tbody>
</table>

Driver code: LHGDADAFCQA1015.
Aesthetically designed 4x1 LED flat panel for surface mounting which provides soft-light and glare free symmetrical illumination.

PLUTO SURFACE 4X1

PRODUCT SPECIFICATIONS

Features & Benefits
- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance Electronic Driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L<sub>70B50</sub>: 50000 hours

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Provision for surface mounting through 4 holes (nos.) of Ø5 mm provided at the back of the fixture.

<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>34 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
</tr>
<tr>
<td>42 W</td>
<td>1195</td>
<td>295</td>
<td>70</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

TECHNICAL DRAWING
APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

**Polar Diagram**

**Technical Data**

<table>
<thead>
<tr>
<th>Description</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>PLUTOSURFACE4X1PLS34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3240</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>PLUTOSURFACE4X1PLS34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3410</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>PLUTOSURFACE4X1PLS42WLED840S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>3800</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>PLUTOSURFACE4X1PLS42WLED857S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4000</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

Driver code: LHGDCDCFCQAL036 for 34 W and LHGDVDDFCQAL040 for 42 W.
Aesthetically designed 2x2 LED flat panels for surface mounting which provides soft-light and glare-free symmetrical illumination.

PLUTO SURFACE 2X2

PRODUCT SPECIFICATIONS

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

Housing & Finish
CRCA powder coated white after phosphochromate treatment.

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

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

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

Mounting
Provision for surface mounting through 4 holes (nos.) of Ø5 mm provided at the back of the fixture.

<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>34 W</td>
<td>595</td>
<td>595</td>
<td>70</td>
</tr>
<tr>
<td>42 W</td>
<td>595</td>
<td>595</td>
<td>70</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

TECHNICAL DRAWING
APPLICATIONS
- Conference Room
- Meeting Room
- Work stations
- Airport lounges
- Banks
- Hospital
- Hotel Lobbies

**POLAR DIAGRAM**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>PLUTOSURFACE2X2PLS34WLED840S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3260</td>
<td>4000 K</td>
<td>≥96</td>
</tr>
<tr>
<td>PLUTOSURFACE2X2PLS34WLED857S</td>
<td>34 W</td>
<td>240</td>
<td>≥80</td>
<td>3450</td>
<td>5700 K</td>
<td>≥101</td>
</tr>
<tr>
<td>PLUTOSURFACE2X2PLS42WLED840S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>3800</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>PLUTOSURFACE2X2PLS42WLED857S</td>
<td>42 W</td>
<td>240</td>
<td>≥80</td>
<td>4000</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

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

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in low ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperature
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140 V - 270 V
- Average LED life \( L_{70B50} \): 50000 hours

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

**Light source**
High efficiency long life SMD LED mounted on MOPCB with high LED efficacy of \( \geq 140 \text{ lm/W} \) used to enhance the lumen output.

**Optics**
High quality polycarbonate frosted diffuser for glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

**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.

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in 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
APPLICAITONS

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

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>ORBITDLR5WLED830S</td>
<td>5 W</td>
<td>240</td>
<td>≥80</td>
<td>370</td>
<td>3000 K</td>
<td>≥74</td>
</tr>
<tr>
<td>ORBITDLR5WLED840S</td>
<td>5 W</td>
<td>240</td>
<td>≥80</td>
<td>380</td>
<td>4000 K</td>
<td>≥76</td>
</tr>
<tr>
<td>ORBITDLR5WLED857S</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: LSCELDO000065.
INTEGRA NEO

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life $L_{70B50}$: 50000 hours

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

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

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

Optics
High quality polycarbonate opal concave diffuser to enhance the aesthetics of the fixture and to provide glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

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.

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in 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>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

Recess mounted downlighter with pressure die-cast aluminium heat sink & PC diffuser in white powder coated finish with integrated driver.
APPLICATIONS
• Residences
• Restaurants
• Hotel lobbies / Waiting areas
• Modern gyms / Spa
• Corporate offices

POLAR DIAGRAM

Accessories - Ring
CRCA powder coated rings to suit ceiling cut out to replace conventional luminaries with LED range with SS spring clips.

Ordering Code | Compatible with | ØxH (in mm) | Cutout Size (in mm)
---|---|---|---
LSCRFLOX100 | 10 W | 190 x 23.5 | 170
LSCRFLOX101 | 12 W | 190 x 23.5 | 170
LSCRFLOX102 | 15 W | 190 x 23.5 | 170
LSCRFLOX103 | 24 W | 240 x 23.5 | 220
LSCRFLOX102 | 24 W | 240 x 23.5 | 220

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>INTEGRANEODLR10WLED830S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>810</td>
<td>3000 K</td>
<td>≥81</td>
</tr>
<tr>
<td>INTEGRANEODLR10WLED840S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>850</td>
<td>4000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRANEODLR10WLED857S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>1000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRANEODLR12WLED840S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>900</td>
<td>4000 K</td>
<td>≥75</td>
</tr>
<tr>
<td>INTEGRANEODLR12WLED857S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>1000</td>
<td>5700 K</td>
<td>≥83</td>
</tr>
<tr>
<td>INTEGRANEODLR15WLED830S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1125</td>
<td>3000 K</td>
<td>≥75</td>
</tr>
<tr>
<td>INTEGRANEODLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1215</td>
<td>4000 K</td>
<td>≥81</td>
</tr>
<tr>
<td>INTEGRANEODLR15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRANEODLR18WLED840S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1530</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRANEODLR18WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1620</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>INTEGRANEODLR18WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRANEODLR24WLED830S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>1920</td>
<td>3000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>INTEGRANEODLR24WLED840S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>2040</td>
<td>4000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRANEODLR24WLED857S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>2400</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRANEODLR15WLED840MOD*</td>
<td>15 W Dali</td>
<td>75-85</td>
<td>≥80</td>
<td>1350</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>INTEGRANEODLR15WLED857MOD*</td>
<td>15 W Dali</td>
<td>75-85</td>
<td>≥80</td>
<td>1425</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

* FOR DALI PRODUCTS, DRIVER TO BE ORDERED SEPARATELY, DALI Driver 15 W- DALI DRIVERFACT15 WD

Driver code: LSSCRX2090 for 10 W, LSSCRX2026 for 12 W, LSSCRX2026 for 15 W, LSSCRX2484 for 18 W LSSLNX0213 for 24 W
PRODUCT SPECIFICATIONS

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

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

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

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

Optics
High quality polycarbonate opal concave diffuser to enhance the aesthetics of the fixture and to provide glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

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.

TECHNICAL DRAWING

All dimensions are in mm
Tolerance: ± 5 mm
POLAR DIAGRAM

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

**LED | 10 W / 15 W | 50000 hours | High Efficiency**

<table>
<thead>
<tr>
<th>Description</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>INTEGRAGRANDDLR10WLED830S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>900</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR10WLED840S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>940</td>
<td>4000 K</td>
<td>≥94</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR10WLED857S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>1000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR15WLED830S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1280</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1350</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRAGRANDDLR15WLED840MOD*</td>
<td>15 W DALI 75-85</td>
<td>≥80</td>
<td>1350</td>
<td>4000 K</td>
<td>≥90</td>
<td></td>
</tr>
<tr>
<td>INTEGRAGRANDDLR15WLED857MOD*</td>
<td>15 W DALI 75-85</td>
<td>≥80</td>
<td>1425</td>
<td>5700 K</td>
<td>≥95</td>
<td></td>
</tr>
</tbody>
</table>

* FOR DALI PRODUCTS, DRIVER TO BE ORDERED SEPARATELY, DALI Driver 15 W- DALIDRIVERFACT15 WD

Driver code: LSSCRX2090 for 10 W, LSSCRX2026 for 15 W.
Recess mounted pressure die-cast aluminium luminaires in powder coated white finish with drop down PC diffuser with optimized heat sink for efficient heat dissipation and independent electronic driver.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in low ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L_{70B50}: 50000 hours

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

**Light source**
High efficiency long life SMD LED mounted on MPCPB with high LED efficacy of \geq 140 \text{ lm/W} used to enhance the lumen output.

**Optics**
Diffused drop down diffuser for wide and glare-free symmetrical light distribution (For detailed photometric data, please refer LM79 report & IES file).

**Electronic driver**
Powered by an independent, isolated, SELV output electronic driver in white polycarbonate housing, snap fixed on the fixture. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety 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.

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 W</td>
<td>177</td>
<td>55</td>
<td>155</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
- Retail Stores
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>RISEDLR15WLED830S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1020</td>
<td>3000 K</td>
<td>≥65</td>
</tr>
<tr>
<td>RISEDLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1080</td>
<td>4000 K</td>
<td>≥70</td>
</tr>
<tr>
<td>RISEDLR15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1160</td>
<td>5700 K</td>
<td>≥75</td>
</tr>
</tbody>
</table>

Driver code: LSCELDO00065.
Recess mounted pressure die-cast aluminium luminaires in powder coated white finish in round profile with optimized heat sink for efficient heat dissipation and independent electronic LED driver.

ENDURA DL NEO 7 W / 10 W

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140 V - 270 V
- Average LED life L_{70B50}: 50000 hours

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

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

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

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

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

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

<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>7 W</td>
<td>123</td>
<td>53</td>
<td>100</td>
</tr>
<tr>
<td>10 W</td>
<td>123</td>
<td>53</td>
<td>100</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

TECHNICAL DRAWING

Top View
Front View
APPLIcATIONS
- Shopping malls
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>ENDURANEODLR7WLED830S</td>
<td>7 W</td>
<td>240</td>
<td>≥80</td>
<td>505</td>
<td>3000 K</td>
<td>≥72</td>
</tr>
<tr>
<td>ENDURANEODLR7WLED840S</td>
<td>7 W</td>
<td>240</td>
<td>≥80</td>
<td>525</td>
<td>4000 K</td>
<td>≥75</td>
</tr>
<tr>
<td>ENDURANEODLR7WLED857S</td>
<td>7 W</td>
<td>240</td>
<td>≥80</td>
<td>560</td>
<td>5700 K</td>
<td>≥80</td>
</tr>
<tr>
<td>ENDURANEODLR10WLED840S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>800</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>ENDURANEODLR10WLED857S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>850</td>
<td>5700 K</td>
<td>≥85</td>
</tr>
</tbody>
</table>

Driver code: LHGDADBHFRA1007 for 7 W, SCRX1397 for 10 W.
ENDURA DL NEO 12 W / 15 W / 18 W

PRODUCT SPECIFICATIONS

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

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

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

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

Optics
High quality polycarbonate diffuser in opal finish for glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

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

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

TECHNICAL DRAWING

System | Dia Ø (mm) | Height h (mm) | Cutout Size Ø (mm) |
-------|-----------|---------------|--------------------|
12 W   | 177       | 45            | 155                |
15 W   | 177       | 45            | 155                |
18 W   | 177       | 45            | 155                |

All dimensions are in mm
Tolerance: ± 5 mm
### Technical Data

<table>
<thead>
<tr>
<th>Description</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>ENDURANEODLR12WLED830S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>960</td>
<td>3000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>ENDURANEODLR12WLED840S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>1020</td>
<td>4000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>ENDURANEODLR12WLED857S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>1080</td>
<td>5700 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR15WLED830S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1300</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1325</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ENDURANEODLR15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1350</td>
<td>5700 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR18WLED830S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1620</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR18WLED840S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1710</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ENDURANEODLR18WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>5700 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANE01-10VDLR15WLED830MOD</td>
<td>15 W(1-10 V)</td>
<td>30-45</td>
<td>≥80</td>
<td>1275</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>ENDURANE01-10VDLR15WLED840MOD</td>
<td>15 W(1-10 V)</td>
<td>30-45</td>
<td>≥80</td>
<td>1325</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANE01-10VDLR15WLED857MOD</td>
<td>15 W(1-10 V)</td>
<td>30-45</td>
<td>≥80</td>
<td>1350</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ENDURANEODLR15WLED840MOD</td>
<td>15 W DALI</td>
<td>30-45</td>
<td>≥80</td>
<td>1325</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR15WLED857MOD</td>
<td>15 W DALI</td>
<td>30-45</td>
<td>≥80</td>
<td>1350</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

* FOR DALI PRODUCTS, DRIVER TO BE ORDERED SEPARATELY, DALI Driver 15 W - DALIDRIVER15 WD

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

ENDURA DL NEO 21 W / 25 W

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- 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 LED life L_{70,50} = 50000 hours

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

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

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

Optics
High quality polycarbonate diffuser in opal finish for glare free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

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

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

<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>21 W</td>
<td>188</td>
<td>68</td>
<td>180</td>
</tr>
<tr>
<td>25 W</td>
<td>188</td>
<td>68</td>
<td>180</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>ENDURANEODLR21WLED840MOD</td>
<td>21 W</td>
<td>33-48V</td>
<td>≥80</td>
<td>1680</td>
<td>4000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>ENDURANEODLR21WLED857MOD</td>
<td>21 W</td>
<td>33-48V</td>
<td>≥80</td>
<td>1800</td>
<td>5700 K</td>
<td>≥85</td>
</tr>
<tr>
<td>ENDURANEODLR25WLED840MOD</td>
<td>25 W</td>
<td>33-48V</td>
<td>≥80</td>
<td>2280</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR25WLED857MOD</td>
<td>25 W</td>
<td>33-48V</td>
<td>≥80</td>
<td>2400</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ENDURANEODLR25 WLED840MOD*</td>
<td>25 W DALI*</td>
<td>33-48V</td>
<td>≥80</td>
<td>2280</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEODLR25 WLED857MOD*</td>
<td>25 W DALI*</td>
<td>33-48V</td>
<td>≥80</td>
<td>2400</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

* FOR DALI PRODUCTS, DRIVER TO BE ORDERED SEPARATELY, DALI Driver 25 W - DALIDRIVER25 WD


### APPLICATIONS

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

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Best In Class LED with high lumen package
- Highly efficient heat chamber
- Superior quality white reflector technology
- Deep Recessed LED downlight
- Ideal for glare control with high lumen output
- Available in 24 W and 35 W
- No UV & IR radiations
- Environment-friendly as it does not contain mercury
- Operating temperature: -10°C to +45°C
- Average LED life $L_{70B50}$: 50000 hours

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

**Light source**
High efficiency long life SMD LED mounted on MCPB with high LED efficacy of $\geq 140$ lm/W used to enhance the lumen output.

**Optics**
Deep Recessed High quality polycarbonate diffuser along with white reflector for glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

**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. For details refer installation instructions.

**System**
<table>
<thead>
<tr>
<th>Power</th>
<th>Dia $\Omega$ (mm)</th>
<th>Height $h$ (mm)</th>
<th>Cutout Size $\Omega$ (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
**APPLICATIONS**
- Retail stores/Hypermarkets
- Hotel Lobbies/Waiting areas
- Restaurants
- Corporate offices
- Museums
- High End Residences
- Airport Lounges

---

**POLAR DIAGRAM**

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V DC)</th>
<th>CRI</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>ARDORDLR24WLED830MODWHT</td>
<td>24 W</td>
<td>45 ≥80</td>
<td>100°</td>
<td></td>
<td>2300</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ARDORDLR24WLED840MODWHT</td>
<td>24 W</td>
<td>45 ≥80</td>
<td>100°</td>
<td></td>
<td>2350</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ARDORDLR24WLED857MODWHT</td>
<td>24 W</td>
<td>45 ≥80</td>
<td>100°</td>
<td></td>
<td>2400</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ARDORDLR35WLED830MODWHT</td>
<td>35 W</td>
<td>30 ≥80</td>
<td>100°</td>
<td></td>
<td>3400</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ARDORDLR35WLED840MODWHT</td>
<td>35 W</td>
<td>30 ≥80</td>
<td>100°</td>
<td></td>
<td>3450</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>ARDORDLR35WLED857MODWHT</td>
<td>35 W</td>
<td>30 ≥80</td>
<td>100°</td>
<td></td>
<td>3500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER24WS for 24 W, LEDDRIVER35WS for 35 W

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

### PRODUCT SPECIFICATIONS

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

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

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

#### Reflector
Mirror finish anodized reflector with facets for uniform light distribution.

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

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

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

### TECHNICAL DRAWING

<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>12 W</td>
<td>165</td>
<td>45</td>
<td>145</td>
</tr>
<tr>
<td>15 W</td>
<td>195</td>
<td>55</td>
<td>175</td>
</tr>
<tr>
<td>21 W</td>
<td>220</td>
<td>60</td>
<td>205</td>
</tr>
<tr>
<td>25 W</td>
<td>240</td>
<td>65</td>
<td>225</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLIcATIONS

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

POLAR DIAGRAM

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V Dc)</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>ENDURAHODLR12WLED830MOD</td>
<td>12 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1200</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR12WLED840MOD</td>
<td>12 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1200</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR12WLED857MOD</td>
<td>12 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1260</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
<tr>
<td>ENDURAHODLR15WLED830MOD</td>
<td>15 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1500</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR15WLED840MOD</td>
<td>15 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1500</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR15WLED857MOD</td>
<td>15 W</td>
<td>18-45</td>
<td>≥80</td>
<td>1575</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
<tr>
<td>ENDURAHODLR21WLED830MOD</td>
<td>21 W</td>
<td>34-48</td>
<td>≥80</td>
<td>2100</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR21WLED840MOD</td>
<td>21 W</td>
<td>34-48</td>
<td>≥80</td>
<td>2100</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR25WLED830MOD</td>
<td>25 W</td>
<td>34-48</td>
<td>≥80</td>
<td>2205</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
<tr>
<td>ENDURAHODLR25WLED840MOD</td>
<td>25 W</td>
<td>34-48</td>
<td>≥80</td>
<td>2500</td>
<td>3000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURAHODLR25WLED857MOD</td>
<td>25 W</td>
<td>34-48</td>
<td>≥80</td>
<td>2625</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
</tbody>
</table>

Driver code: SCRX1906 for 12 W, SCRX1906 for 15 W, SCRX1880 for 21, SCRX1880 for 25 W

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

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Ideally suitable for office lighting, showrooms, high-end residences
- Energy efficient and low heat dissipation.
- Quick installation, easy to install.
- No UV & IR.
- Working temperature: -10°C to 45°C
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140 V - 270 V
- Average LED life L70B50: 50000 hours

**Housing & Finish**
Round aluminium Powder coated white with Pressure Die cast housing.

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

**Optics**
High transmittance polystyrene opal diffuser for glare-free symmetric light distribution (for detailed photometric data, please refer L79 report & IES file).

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

**Mounting**
Suitable for recessed mounting with Grid & POP ceiling.

**System**

<table>
<thead>
<tr>
<th>Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
<th>Cutout Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 W</td>
<td>120</td>
<td>25</td>
<td>105</td>
</tr>
<tr>
<td>12 W</td>
<td>172</td>
<td>25</td>
<td>160</td>
</tr>
<tr>
<td>15 W</td>
<td>190</td>
<td>25</td>
<td>180</td>
</tr>
<tr>
<td>18 W</td>
<td>225</td>
<td>25</td>
<td>210</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

**TECHNICAL DRAWING**
**APPLICATIONS**
- Residences
- Restaurants
- Hotel lobbies / Waiting areas
- Modern gyms / Spa
- Corporate offices

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</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>EDGEPRORDLR6WLED840S</td>
<td>6 W</td>
<td>240</td>
<td>≥80</td>
<td>≥570</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPRORDLR12WLED840S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1140</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPRORDLR15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1425</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPRORDLR18WLED840S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1710</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

Driver code: LSSLNW0020 for 6 W, LSSLNW0021 for 12 W, LSSLNW0022 for 15 W / 18 W
The Edgepro range of Slim-Fit low profile downlights are engineered to deliver superior light output and uniformity utilising the latest edge-lit LED technology. At only 25mm deep including bracket, they are an ideal solution where ceiling voids are limited but high lumen output is required.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Ideally suitable for office lighting, showrooms, high-end residences
- Energy efficient and low heat dissipation.
- Quick installation, easy to install.
- No UV & IR.
- Working temperature: -10°C to 45°C
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10°C to +45°C
- Operating voltage range: 140 V - 270 V
- Average LED life L₇₀₅₀: 50000 hours

**Housing & Finish**
Square aluminium Powder coated white with Pressure Die cast housing.

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

**Optics**
High transmittance polystyrene opal diffuser for glare-free symmetric light distribution (for detailed photometric data, please refer LM79 report & IES files).

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

**Mounting**
Suitable for recessed mounting with Grid & POP ceiling.

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dimension (lxw)</th>
<th>Height h (mm)</th>
<th>Cutout Size l x w (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 W</td>
<td>120 x 120</td>
<td>25</td>
<td>105 x 105</td>
</tr>
<tr>
<td>12 W</td>
<td>172 x 172</td>
<td>25</td>
<td>160 x 160</td>
</tr>
<tr>
<td>15 W</td>
<td>190 x 190</td>
<td>25</td>
<td>180 x 180</td>
</tr>
<tr>
<td>18 W</td>
<td>225 x 225</td>
<td>25</td>
<td>210 x 210</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>EDGEPROSQDLR6 WLED840S</td>
<td>6 W</td>
<td>240</td>
<td>≥80</td>
<td>≥570</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPROSQDLR6 WLED857S</td>
<td>6 W</td>
<td>240</td>
<td>≥80</td>
<td>≥600</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>EDGEPROSQDLR12 WLED840S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1140</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPROSQDLR12 WLED857S</td>
<td>12 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1200</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>EDGEPROSQDLR15 WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1425</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPROSQDLR15 WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>EDGEPROSQDLR18 WLED840S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1710</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>EDGEPROSQDLR18 WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>≥1800</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: LSSLNW0020 for 6 W, LSSLNW0021 for 12 W, LSSLNW0022 for 15 W / 18 W

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

### POLAR DIAGRAM

![Polar Diagram](image)
Surface mounted downlight with white powder coated polycarbonate housing and pressure die-cast heat sink having high efficiency.

INTEGRA NEO SURFACE

PRODUCT SPECIFICATIONS

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

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

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

Optics
PC diffuser in opal finish for glare-free uniform light distribution alongwith PC reflector in white finish to enhance the lumen output of the fixture. (For detailed photometric data, please refer LM79 report & IES file).

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

Mounting
Back polycarbonate mounting plate is fixed to the wall/ceiling by 2 holes of Ø3.5 mm provided in it at a center distance of 100 mm and then fixture is fit to the mounting plate by rotating in anti-clockwise direction.

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 W</td>
<td>200</td>
<td>68.5</td>
</tr>
<tr>
<td>15 W</td>
<td>200</td>
<td>68.5</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### APPLICATIONS
- Corporate offices
- Banks & ATM outlets
- Software development centers
- Modern work spaces
- Showrooms

### POLAR DIAGRAM

![Polar Diagram](image)

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>INTEGRANEOSURFACE3DLS10WLED830S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>800</td>
<td>3000 K</td>
<td>≥80</td>
</tr>
<tr>
<td>INTEGRANEOSURFACE3DLS10WLED840S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>850</td>
<td>4000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRANEOSURFACE3DLS10WLED857S</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>1000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>INTEGRANEOSURFACE3DLS15WLED830S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1280</td>
<td>3000 K</td>
<td>≥85</td>
</tr>
<tr>
<td>INTEGRANEOSURFACE3DLS15WLED840S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1350</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>INTEGRANEOSURFACE3DLS15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: SCRX2088 for 10 W, LSSCRX2092 for 15 W

---

IS 10322 (Part 5/Sec 1) 2012
ENDURA NEO DL SURFACE

PRODUCT SPECIFICATIONS

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

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

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

Reflector
The circular housing white painted inside also act as reflector.

Optics
High quality methacrylate opal diffuser & CRCA white powder coated outer ring to give glare-free uniform light distribution (For detailed photometric data, please refer LM79 report & IES file).

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

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

<table>
<thead>
<tr>
<th>System Power</th>
<th>Dia (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 W</td>
<td>234</td>
<td>57</td>
</tr>
<tr>
<td>21 W</td>
<td>234</td>
<td>57</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLIcATIONS

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

POLAR DIAGRAM

90º-90º
60º-60º
30º
0º
-30º
C0/C180:
C90/C270:

Driver code: LHGDADFCQA1015 for 15 W, CELDO0049 for 18 W & 21 W

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>ENDURANEOSURFACEDLS15WLED857S</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>1350</td>
<td>5700 K</td>
<td>≥90</td>
</tr>
<tr>
<td>ENDURANEOSURFACEDLS18WLED857S</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>ENDURANEOSURFACEDLS21WLED857S</td>
<td>21 W</td>
<td>240</td>
<td>≥80</td>
<td>2100</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: LHGDADFCQA1015 for 15 W, CELDO0049 for 18 W & 21 W
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 glarefree solution.

**SPIRIT**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Delivers excellent illumination & comfort in low ceiling areas
- 15° elbow lift
- 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
- Driver DC Voltage: 36 V
- Average LED life L70 B 50: 50000 hours

**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 (For detailed Photometric data, please refer LM79 report & IES file).

**Electronic driver**
Powered by an independent electronic driver in white polycarbonate housing. (SMPS based constant current supply) with Output Short Circuit Protection, Surge Voltage Protection and other safety tests as per IS 15885 Part 2/Sec 13.

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

**TECHNICAL DRAWING**

<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>85</td>
<td>85</td>
<td>80</td>
</tr>
<tr>
<td>15 W</td>
<td>105</td>
<td>85</td>
<td>100</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

**PHOTOMETRIC DATA**

- 24°
- 38°
APPLICATIONS
- Hotel lobbies / Waiting areas
- Restaurants
- Corporate Offices
- Museums
- High End Residences
- Airport Lounges

ACCESSORIES

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD-D for 10 W</td>
<td>SPIRITATTACHMENTRD-DL10 WWHT</td>
</tr>
<tr>
<td>RD-Oval for 10 W</td>
<td>SPIRITATTA CHMENTRD-CVALDL10 WWHT</td>
</tr>
<tr>
<td>RD-O for 10 W</td>
<td>SPIRITATTA CHMENTRD-CDL10 WWHT</td>
</tr>
<tr>
<td>RD-SYM for 10 W</td>
<td>SPIRITATTA CHMENTRD-SYMDL10 WWHT</td>
</tr>
<tr>
<td>RD-ASYM for 10 W</td>
<td>SPIRITATTA CHMENTRD-ASYMDL10 WWHT</td>
</tr>
<tr>
<td>SQ-O for 10 W</td>
<td>SPIRITATTA CHMENTSQ-CDL10 WWHT</td>
</tr>
<tr>
<td>RD-D for 15 W</td>
<td>SPIRITATTA CHMENTRD-DL15 WWHT</td>
</tr>
<tr>
<td>RD-Oval for 15 W</td>
<td>SPIRITATTA CHMENTRD-CVALDL15 WWHT</td>
</tr>
<tr>
<td>RD-O for 15 W</td>
<td>SPIRITATTA CHMENTRD-CDL15 WWHT</td>
</tr>
<tr>
<td>RD-SYM for 15 W</td>
<td>SPIRITATTA CHMENTRD-SYMDL15 WWHT</td>
</tr>
<tr>
<td>RD-ASYM for 15 W</td>
<td>SPIRITATTA CHMENTRD-ASYMDL15 WWHT</td>
</tr>
<tr>
<td>SQ-O for 15 W</td>
<td>SPIRITATTA CHMENTSQ-CDL15 WWHT</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V DC)</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>SPIRITLAMPUNITDLR10WLED827MCO24D</td>
<td>10 W</td>
<td>36</td>
<td>24°</td>
<td>800</td>
<td>2700K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR10WLED840MCO24D</td>
<td>10 W</td>
<td>36</td>
<td>24°</td>
<td>850</td>
<td>4000K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR10WLED827MCO38D</td>
<td>10 W</td>
<td>36</td>
<td>40°</td>
<td>800</td>
<td>2700K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR10WLED840MCO38D</td>
<td>10 W</td>
<td>36</td>
<td>40°</td>
<td>850</td>
<td>4000K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR15WLED827MCO24D</td>
<td>15 W</td>
<td>36</td>
<td>24°</td>
<td>975</td>
<td>2700K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR15WLED840MCO24D</td>
<td>15 W</td>
<td>36</td>
<td>24°</td>
<td>1050</td>
<td>4000K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR15WLED827MCO38D</td>
<td>15 W</td>
<td>36</td>
<td>38°</td>
<td>975</td>
<td>2700K</td>
<td>≥80</td>
</tr>
<tr>
<td>SPIRITLAMPUNITDLR15WLED840MCO38D</td>
<td>15 W</td>
<td>36</td>
<td>38°</td>
<td>1050</td>
<td>4000K</td>
<td>≥80</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER10 WS for 10 W and LEDDRIVER15 WS for 15 W. Ordering: Lamp unit + Driver + Attachment
SPARKLE PRO FIXED

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Average LED life L_{70B50}: 35000 hours

Housing & Finish
Grey powder coated, elegantly designed pressure die-cast aluminium housing / heat sink for efficient heat dissipation & white finish PDC ring for holding the diffuser.

Light Source
High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED ≥130 lm/W with viewing angle 120° to ensure better uniformity of light distribution.

Optics
High purity faceted PC metalized glossy reflector to enhance the lumen output of the fixture (For detailed photometric data, please refer LM79 report & IES file).

Diffuser
High quality PMMA diffuser in clear finish for uniform light distribution.

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

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

TECHNICAL DRAWING

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

All dimensions are in mm
Tolerance: ± 5 mm
APPLIICATIONS

• Showrooms
• Restaurants
• Hotel Lobbies
• Offices
• High End Residences
• Airport Lounges

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

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V DC)</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>SPARKLEPROFIXDLR8W830MOD</td>
<td>8 W</td>
<td>20</td>
<td>40</td>
<td>720</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR8W840MOD</td>
<td>8 W</td>
<td>20</td>
<td>40</td>
<td>760</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR8W857MOD</td>
<td>8 W</td>
<td>36</td>
<td>40</td>
<td>800</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR12W830MOD</td>
<td>12 W</td>
<td>36</td>
<td>40</td>
<td>1080</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR12W840MOD</td>
<td>12 W</td>
<td>36</td>
<td>40</td>
<td>1140</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR12W857MOD</td>
<td>12 W</td>
<td>36</td>
<td>40</td>
<td>1200</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR20W830MOD</td>
<td>20 W</td>
<td>36</td>
<td>40</td>
<td>1800</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR20W840MOD</td>
<td>20 W</td>
<td>36</td>
<td>40</td>
<td>1900</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR20W857MOD</td>
<td>20 W</td>
<td>36</td>
<td>40</td>
<td>2000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR30W830MOD</td>
<td>30 W</td>
<td>36</td>
<td>40</td>
<td>2700</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR30W840MOD</td>
<td>30 W</td>
<td>36</td>
<td>40</td>
<td>2850</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR30W857MOD</td>
<td>30 W</td>
<td>36</td>
<td>40</td>
<td>3000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR45W830MOD</td>
<td>45 W</td>
<td>36</td>
<td>60</td>
<td>4050</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR45W840MOD</td>
<td>45 W</td>
<td>36</td>
<td>60</td>
<td>4275</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROFIXDLR45W857MOD</td>
<td>45 W</td>
<td>36</td>
<td>60</td>
<td>4500</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>


Ordering: Module + Driver
SPARKLE PRO ADJUSTABLE

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to + 45° C
- Average LED life L70B50: 35000 hours

Housing & Finish
Grey powder coated, elegantly designed pressure die-cast aluminium housing / heat sink for efficient heat dissipation & white finish PDC ring for holding the diffuser. Swivels 15° Vertical.

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

Optics
High purity faceted PC metalized glossy reflector to enhance the lumen output of the fixture (For detailed photometric data, please refer LM79 report & IES file).

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.

TECHNICAL DRAWING

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

All dimensions are in mm
Tolerance: ± 5 mm
**Applications**
- Showrooms
- Restaurants
- Hotel Lobbies
- Offices
- High End Residences
- Airport Lounges

**Technical Data**

**Description** | **System Power** | **Voltage (V DC)** | **Beam Angle** | **Lumen (lm)** | **Colour Temp. (CCT)** | **System Luminous Efficacy lm/W**
--- | --- | --- | --- | --- | --- | ---
SparkleProAdjDlr8W830Mod40D | 8 W | 20 | 40° | 720 | 3000 K | ≥90
SparkleProAdjDlr8W840Mod40D | 8 W | 20 | 40° | 760 | 4000 K | ≥95
SparkleProAdjDlr8W857Mod40D | 8 W | 20 | 40° | 800 | 6000 K | ≥100
SparkleProAdjDlr12W830Mod40D | 12 W | 36 | 40° | 1080 | 3000 K | ≥90
SparkleProAdjDlr12W840Mod40D | 12 W | 36 | 40° | 1140 | 4000 K | ≥95
SparkleProAdjDlr12W857Mod40D | 12 W | 36 | 40° | 1200 | 6000 K | ≥100
SparkleProAdjDlr20W830Mod40D | 20 W | 36 | 40° | 2000 | 3000 K | ≥100
SparkleProAdjDlr20W840Mod40D | 20 W | 36 | 40° | 2100 | 4000 K | ≥105
SparkleProAdjDlr20W857Mod40D | 20 W | 36 | 40° | 2200 | 6000 K | ≥110
SparkleProAdjDlr30W830Mod40D | 30 W | 36 | 40° | 3000 | 3000 K | ≥100
SparkleProAdjDlr30W840Mod40D | 30 W | 36 | 40° | 3100 | 4000 K | ≥105
SparkleProAdjDlr30W857Mod40D | 30 W | 36 | 40° | 3300 | 6000 K | ≥110

Driver code: LEDDRIVER8 WS for 8 W, LEDDRIVER12 WS for 12 W, LEDDRIVER20 WS for 20 W, LEDDRIVER30 WS for 30 W

24° on request in 24° on request in 20 W / 30 W

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

**SPARKLE PRO SNOOT**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Adjustable LED directional spotlight with high efficiency light output.
- 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
- Instant light with low running temperature
- Average LED life L70B50: 35000 hours

**Housing & Finish**
Grey powder coated, elegantly designed pressure die-cast aluminium housing / heat sink for efficient heat dissipation & white finish PDC ring for holding the diffuser. Swivels 15° Vertical.

**Light Source**
High efficiency long life COB LED mounted on MCPCB. Lumen efficacy of LED >130 lm/W with viewing angle 120° to ensure better uniformity of light distribution.

**Optics**
High purity faceted PC metalized glossy reflector to enhance the lumen output of the fixture (For detailed photometric data, please refer LM79 report & IES file).

**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.

**TECHNICAL DRAWING**

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

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V DC)</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>SPARKLEPROSNOOTDLR20WLED30MOD38D</td>
<td>20 W</td>
<td>36</td>
<td>38°</td>
<td>2000</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROSNOOTDLR20WLED840MOD38D</td>
<td>20 W</td>
<td>36</td>
<td>38°</td>
<td>2050</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROSNOOTDLR20WLED857MOD38D</td>
<td>20 W</td>
<td>36</td>
<td>38°</td>
<td>2100</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
<tr>
<td>SPARKLEPROSNOOTDLR30WLED30MOD38D</td>
<td>30 W</td>
<td>36</td>
<td>38°</td>
<td>2700</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>SPARKLEPROSNOOTDLR30WLED840MOD38D</td>
<td>30 W</td>
<td>36</td>
<td>38°</td>
<td>2850</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>SPARKLEPROSNOOTDLR30WLED857MOD38D</td>
<td>30 W</td>
<td>36</td>
<td>38°</td>
<td>3000</td>
<td>5700 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>

Driver code: LEDDRIVER20 WS for 20 W, LEDDRIVER30 WS for 30 W.
24° on request in 24° on request in 20 W / 30 W.

**Ordering:** Module + Driver

---

**APPLICATIONS**
- Showrooms
- Restaurants
- Hotel Lobbies
- Offices
- High End Residences
- Airport Lounges

**Polar Diagram**

**Technical Details**

- **Voltage (V DC):**
  - 36 V

- **Beam Angle:**
  - 38°

- **Lumen (lm):**
  - 2000 lm

- **Colour Temp. (CCT):**
  - 3000 K

- **System Luminous Efficacy lm/W:**
  - ≥90

**Driver Code:**
- LEDDRIVER20 WS for 20 W, LEDDRIVER30 WS for 30 W.
Battens
LUMILINE

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

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L_70B: 35000 hours

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

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

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

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

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

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length l (mm)</th>
<th>Width w (mm)</th>
<th>Height h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 W</td>
<td>600</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>18 W</td>
<td>1150</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>20 W</td>
<td>1150</td>
<td>25</td>
<td>40</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>LUMILINEBS9WLED830SPCWH</td>
<td>9 W</td>
<td>240</td>
<td>≥80</td>
<td>860</td>
<td>3000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LUMILINEBS9WLED840SPCWH</td>
<td>9 W</td>
<td>240</td>
<td>≥80</td>
<td>910</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LUMILINEBS9WLED865SPCWH</td>
<td>9 W</td>
<td>240</td>
<td>≥80</td>
<td>950</td>
<td>6500 K</td>
<td>≥105</td>
</tr>
<tr>
<td>LUMILINEBS18WLED830SPCWH</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1625</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LUMILINEBS18WLED840SPCWH</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1710</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LUMILINEBS18WLED865SPCWH</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>1810</td>
<td>6500 K</td>
<td>≥100</td>
</tr>
<tr>
<td>LUMILINEBS20WLED830SPCWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>1805</td>
<td>3000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>LUMILINEBS20WLED840SPCWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>1910</td>
<td>4000 K</td>
<td>≥95</td>
</tr>
<tr>
<td>LUMILINEBS20WLED865SPCWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>2010</td>
<td>6500 K</td>
<td>≥100</td>
</tr>
</tbody>
</table>
ENDURA LINEAR NEO

PRODUCT SPECIFICATIONS

Features & Benefits
- Delivers excellent illumination & comfort in high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L₇₀₅₀: 50000 hours

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

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

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

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

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

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

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>Suspension Wire Distance (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 W</td>
<td>581</td>
<td>25</td>
<td>35</td>
<td>At Centre</td>
</tr>
<tr>
<td>20 W</td>
<td>1144</td>
<td>25</td>
<td>35</td>
<td>At Centre</td>
</tr>
<tr>
<td>22 W</td>
<td>1144</td>
<td>25</td>
<td>35</td>
<td>At Centre</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLIED DIAGRAM

APPLICATIONS

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

10 W / 20 W / 22 W  |  Life 35000 hours

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI ≥ 80</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDURALINEARNEOBS10WLED830SPCWH 10 W 240</td>
<td>240</td>
<td>≥80</td>
<td>850</td>
<td>3000 K</td>
<td>&gt;85</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS10WLED840SPCWH 10 W 240</td>
<td>240</td>
<td>≥80</td>
<td>900</td>
<td>4000 K</td>
<td>&gt;90</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS10WLED865SPCWH 10 W 240</td>
<td>240</td>
<td>≥80</td>
<td>950</td>
<td>5700 K</td>
<td>&gt;95</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS20WLED830SPCWH 20 W 240</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>3000 K</td>
<td>&gt;90</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS20WLED840SPCWH 20 W 240</td>
<td>240</td>
<td>≥80</td>
<td>1900</td>
<td>4000 K</td>
<td>&gt;95</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS20WLED865SPCWH 20 W 240</td>
<td>240</td>
<td>≥80</td>
<td>2000</td>
<td>5700 K</td>
<td>&gt;100</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS22WLED830SPCWH 22 W 240</td>
<td>240</td>
<td>≥80</td>
<td>1800</td>
<td>3000 K</td>
<td>&gt;80</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS22WLED840SPCWH 22 W 240</td>
<td>240</td>
<td>≥80</td>
<td>1900</td>
<td>4000 K</td>
<td>&gt;85</td>
<td></td>
</tr>
<tr>
<td>ENDURALINEARNEOBS22WLED865SPCWH 22 W 240</td>
<td>240</td>
<td>≥80</td>
<td>2000</td>
<td>5700 K</td>
<td>&gt;90</td>
<td></td>
</tr>
</tbody>
</table>

Driver code: LSSCRX1762 for 10 W, LSSCRX1763 for 20 W, LSSCRX1763 for 22 W.

Specifications are subject to change without prior notice due to continuous up-gradation of technology.
Stout LED is a complete range of LED battens to replace traditional T8 battens (600mm & 1200mm). The range is perfect for lighting large areas such as corridors, warehouses & general purpose spaces.

**PRODUCT SPECIFICATIONS**

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

**Housing**
Epoxy powder coated white CRCA housing for efficient heat dissipation.

**Light source**
High efficiency long life LED chips with Ra>80 & lumen efficacy of 125lm/W with a viewing angle of 120° to ensure better lumen output. (For detailed photometric data, please refer LM79 report & IES file).

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

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

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

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

**SYSTEM SPECIFICATIONS**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Suspension Wire Distance (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 W</td>
<td>605</td>
<td>65.5</td>
<td>76</td>
<td>At Centre</td>
</tr>
<tr>
<td>40 W</td>
<td>1205</td>
<td>65.5</td>
<td>76</td>
<td>At Centre</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS

- Industries
- Showrooms
- Parking
- Hospital premises
- Educational institutions
- Corridors

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</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>STOUTPLUS600BS20WLED840SPCWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>2000</td>
<td>4000 K</td>
<td>≥100</td>
</tr>
<tr>
<td>STOUTPLUS600BS20WLED857SPCWH</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>2100</td>
<td>5700 K</td>
<td>≥105</td>
</tr>
<tr>
<td>STOUTPLUS1200BS40WLED840SPCWH</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>3800</td>
<td>4000 K</td>
<td>≥90</td>
</tr>
<tr>
<td>STOUTPLUS1200BS40WLED857SPCWH</td>
<td>40 W</td>
<td>240</td>
<td>≥80</td>
<td>4000</td>
<td>5700 K</td>
<td>≥95</td>
</tr>
</tbody>
</table>

Driver code: LSSCRX2303 for 20 W, LSSCRX2308 for 40 W.
General purpose industrial compact batten suitable for single or twin LED Tubelight with integral LED driver, available in single / double side connection options.

REGAL BATTEN LED

PRODUCT SPECIFICATIONS

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

Finish
Epoxy powder coated white after phosphochromate treatment.

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

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

Optics
White power coated CRCA sheet used as Reflector.

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

TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T8</td>
<td>1224</td>
<td>38</td>
<td>68</td>
</tr>
<tr>
<td>T5</td>
<td>1174</td>
<td>38</td>
<td>70</td>
</tr>
</tbody>
</table>
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Voltage (V)</th>
<th>Lamp</th>
<th>Lamp Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGALBATTENT8UPTO1X22WSSBSWH</td>
<td>250</td>
<td>upto 1x22 W LED T8</td>
<td>G 13</td>
</tr>
<tr>
<td>REGALBATTENT8UPTO2X22WSSBSWH</td>
<td>250</td>
<td>upto 2x22 W LED T8</td>
<td>G 13</td>
</tr>
<tr>
<td>REGALBATTENT8UPTO1X22WDSBSWH</td>
<td>250</td>
<td>upto 1x22 W LED T8</td>
<td>G 13</td>
</tr>
<tr>
<td>REGALBATTENT8UPTO2X22WDSBSWH</td>
<td>250</td>
<td>upto 2x22 W LED T8</td>
<td>G 13</td>
</tr>
<tr>
<td>REGALBATTENT5UPTO1X18WDSBSWH</td>
<td>250</td>
<td>upto 1x18 W LED T5</td>
<td>G 13</td>
</tr>
</tbody>
</table>

LED Tube Light supply connection on opposite side
Universal batten for T5 and T8 lamps.

Dimensional Drawing for Tube light

Top View

Side View

7mm Max
Lamps
Ultra bright LED polycarbonate Tubelight with <20% THD with very high efficacy suited for installation in existing T8 tubelight with G13 lamp holders to give glare-free light.

**Product Specifications**

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

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

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

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

**Electronic driver**
Powered by a integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection up to 4kV and other safety test as per IS15885 Part2/Sec13.

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

**System** | **Power** | **Length (mm)** | **Ø (mm)**
---|---|---|---
10 W | 600 | 28.5
13 W | 1200 | 28.5
15 W | 1200 | 28.5
18 W | 1200 | 28.5
20 W | 1200 | 28.5

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

**Technical Drawing**

---

**Side View**

---

**Top View**
**APPLICATIONS**
- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facilities
- Parkings

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI ≥80</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOTONULTRAT8603STL10 WLED865SPC</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1100</td>
<td>6500 K</td>
<td>&gt;110</td>
</tr>
<tr>
<td>PHOTONULTRAT81213STL13 WLED865SPC</td>
<td>13 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1600</td>
<td>6500 K</td>
<td>&gt;120</td>
</tr>
<tr>
<td>PHOTONULTRAT81213STL15 WLED865SPC</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1800</td>
<td>6500 K</td>
<td>&gt;120</td>
</tr>
<tr>
<td>PHOTONULTRAT81213STL18 WLED865SPC</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2100</td>
<td>6500 K</td>
<td>&gt;110</td>
</tr>
<tr>
<td>PHOTONULTRAT81213STL20 WLED865SPC</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2150</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>
Ultra bright LED polycarbonate tubelight with <10% THD with very high efficacy suited for installation in existing T8 tubelight luminaire with G13 lamp holders.

**PRODUCT SPECIFICATIONS**

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

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

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

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

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

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

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 W</td>
<td>600</td>
<td>28.5</td>
</tr>
<tr>
<td>13 W</td>
<td>1200</td>
<td>28.5</td>
</tr>
<tr>
<td>15 W</td>
<td>1200</td>
<td>28.5</td>
</tr>
<tr>
<td>18 W</td>
<td>1200</td>
<td>28.5</td>
</tr>
<tr>
<td>20 W</td>
<td>1200</td>
<td>28.5</td>
</tr>
</tbody>
</table>

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

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

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOTONULTRA+T8603SSTL10WLED865SPC</td>
<td>10 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1100</td>
<td>6500 K</td>
<td>&gt;110</td>
</tr>
<tr>
<td>PHOTONULTRA+T81213SSTL13WLED865SPC</td>
<td>13 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1600</td>
<td>6500 K</td>
<td>&gt;120</td>
</tr>
<tr>
<td>PHOTONULTRA+T81213SSTL15WLED865SPC</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1800</td>
<td>6500 K</td>
<td>&gt;120</td>
</tr>
<tr>
<td>PHOTONULTRA+T81213SSTL18WLED865SPC</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2100</td>
<td>6500 K</td>
<td>&gt;110</td>
</tr>
<tr>
<td>PHOTONULTRA+T81213SSTL20WLED865SPC</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2150</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>
Ultra bright LED Tubelight (opposite side connections) with very high efficacy suited for installation in existing tubelight G13 lamp holders to give glare free light.

### CRYSTAL GLASS LED TUBELIGHT

#### PRODUCT SPECIFICATIONS

**Features & Benefits**
- Excellent efficacy & performance
- 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 LED life L70B50: 50000 hours

**Housing & Finish**
Soda Glass Tube coated with water based silicon adhesive to provide glare free uniform light distribution.

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

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

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

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

#### TECHNICAL DRAWING

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 W /15 W /18 W /20 W</td>
<td>1200</td>
<td>28.5</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
**Applications**
- Corporate offices
- Shopping Malls
- Restaurants
- Hotels
- Educational Facility
- Parkings

**Technical Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTALT81213DSTL13WLED865SGlass</td>
<td>13 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1400</td>
<td>6500 K</td>
<td>&gt;107</td>
</tr>
<tr>
<td>CRYSTALT81213DSTL15WLED865SGlass</td>
<td>15 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1575</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>CRYSTALT81213DSTL18WLED865SGlass</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1900</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>CRYSTALT81213DSTL20WLED865SGlass</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2050</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>
Ultra bright LED Tubelight (opposite side connection with external LED driver) with very high efficacy suited for installation in existing tubelight G5 lamp holders to give glare free light.

**TITANIA SLEEK NEW T5 TUBE LIGHT**

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Excellent efficacy & performance
- Exceptional 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 LED life L70B50: 50000 hours

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>System Power</th>
<th>Length (mm)</th>
<th>Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 W</td>
<td>549</td>
<td>16</td>
</tr>
<tr>
<td>18 W</td>
<td>1149</td>
<td>16</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm
APPLICATIONS
• Corporate offices
• Shopping Malls
• Restaurants
• Hotels
• Educational Facilities
• Parkings

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIASLEET5490STL9WLED865SPC</td>
<td>9 W</td>
<td>240</td>
<td>≥80</td>
<td>G 5</td>
<td>855</td>
<td>6500 K</td>
<td>&gt;95</td>
</tr>
<tr>
<td>TITANIASLEET511490STL18WLED865SPC</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>G 5</td>
<td>1920</td>
<td>6500 K</td>
<td>&gt;106</td>
</tr>
</tbody>
</table>

Driver code: LSSLOX0228 for 9 W, LSSLOX0156 for 18 W.
Ultra bright LED Tubelight (single side connection) with very high efficacy suited for installation in existing tubelight luminaire with G13 lamp holders.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Excellent efficacy & performance
- 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 LED life L70B50: 50000 hours

**Housing & Finish**
Elegantly designed polycarbonate housing in opal finish with integrated AL. heat sink to provide glare free uniform light distribution.

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

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

**Electronic Driver**
Powered by a integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection upto 3kV and other safety test as per IS15885 Part2/Sec13.

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

**System**
<table>
<thead>
<tr>
<th>Power</th>
<th>Length (mm)</th>
<th>Dia Ø (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 W</td>
<td>1200</td>
<td>28</td>
</tr>
<tr>
<td>20 W</td>
<td>1200</td>
<td>28</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

**TECHNICAL DRAWING**

[Technical drawing image]

[Electrical wiring diagram]
APPLICATIONS
• Corporate offices
• Shopping Malls
• Restaurants
• Hotels
• Educational Facility
• Parkings

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder (lm)</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIANEOT81213SSTL18WLED865SPC</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>1900</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
<tr>
<td>TITANIANEOT81213SSTL20WLED865SPC</td>
<td>20 W</td>
<td>240</td>
<td>≥80</td>
<td>G 13</td>
<td>2100</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>
Ultra bright LED Tubelight (opposite side connections) with very high efficacy suited for installation in existing tubelight G5 lamp holders to give glare free light.

**PRODUCT SPECIFICATIONS**

**Features & Benefits**
- Excellent efficacy & performance
- 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 LED life Lₚₐₜₜₜₜ = 35000 hours

**Housing & Finish**
Translucent PC film inside Transparent Glass to provide glare free uniform light distribution.

**Light source**
High efficiency long life SMD LED module is mounted on MCPCB with lumen efficacy of 130 lm/W to enhance the lumen output.

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

**Electronic driver**
Powered by a integral electronic driver (SMPS based constant current supply) with Output Short-Circuit Protection, Surge Voltage Protection upto 2.5kV and other reliability test as per IS15885 Part2/Sec 13.

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

**System**  | **Length** (mm) | **Dia Ø** (mm)
---|---|---
9 W | 549 | 16
18 W | 1149 | 16

All dimensions are in mm  
Tolerance: ± 5 mm

**TECHNICAL DRAWING**

**WIRING DIAGRAM**
APPLIcATIONS

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTAL 549T5DSTL8WLED865SGLASS</td>
<td>8 W</td>
<td>240</td>
<td>≥80</td>
<td>G.5</td>
<td>800</td>
<td>6500 K</td>
<td>&gt;100</td>
</tr>
<tr>
<td>CRYSTAL 1149T5DSTL16WLED865SGLASS</td>
<td>16 W</td>
<td>240</td>
<td>≥80</td>
<td>G.5</td>
<td>1840</td>
<td>6500 K</td>
<td>&gt;115</td>
</tr>
</tbody>
</table>
PHOTON ULTRA PL-L

PRODUCT SPECIFICATIONS

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

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

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

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

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

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

Electrical Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 W</td>
<td>222</td>
<td>44</td>
<td>29</td>
</tr>
<tr>
<td>18 W</td>
<td>419</td>
<td>44</td>
<td>29</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

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

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Lamp Holder</th>
<th>Lumen (lm)</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOTONULTRAPLL227L9WLED865SPC</td>
<td>9 W</td>
<td>240</td>
<td>≥80</td>
<td>2G11</td>
<td>900</td>
<td>6500 K</td>
<td>&gt;100</td>
</tr>
<tr>
<td>PHOTONULTRAPLL197L18WLED865SPC</td>
<td>18 W</td>
<td>240</td>
<td>≥80</td>
<td>2G11</td>
<td>1950</td>
<td>6500 K</td>
<td>&gt;105</td>
</tr>
</tbody>
</table>
Flexible LED strip uses high brightness SMD LED as the light source for indoor application only. It is highly suitable for cove-lighting, decorative lighting, etc.

**Features & Benefits**
- Shape for different requirements
- Light weight
- Long lifespan
- Safety input voltage for LED module
- No harmful UV & IR radiations
- Environment-friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10° C to +45° C
- Operating voltage range: 140 V - 270 V
- Average LED life L70B50: 30000 hours

**Housing**
Flexible PCB, Dual layers, (5000 x 10 x 2) mm
Cable: Dual wires: red and black color single sided tape is used at the back of the strip to mount it

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

**Note:** Recommended only for indoor applications.

**LED FLEXISTRIP - IP20**

**PRODUCT SPECIFICATIONS**

**TECHNICAL DRAWING**

<table>
<thead>
<tr>
<th>System Power</th>
<th>Width h (mm)</th>
<th>Length l (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 W / 55 W</td>
<td>8</td>
<td>5 m</td>
</tr>
</tbody>
</table>

All dimensions are in mm
Tolerance: ± 5 mm

Note: All dimensions are in mm. Tolerance: ± 5 mm.
APPLICATIONS

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>System Power</th>
<th>Voltage (V)</th>
<th>CRI</th>
<th>Colour Temp. (CCT)</th>
<th>System Luminous Efficacy lm/ W</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEXISTRIP205MTR24WLED830S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>3000 K</td>
<td>-</td>
</tr>
<tr>
<td>FLEXISTRIP205MTR24WLED860S</td>
<td>24 W</td>
<td>240</td>
<td>≥80</td>
<td>6500 K</td>
<td>-</td>
</tr>
<tr>
<td>FLEXISTRIP205MTR55WLED830S</td>
<td>55 W</td>
<td>240</td>
<td>≥80</td>
<td>3000 K</td>
<td>-</td>
</tr>
<tr>
<td>FLEXISTRIP205MTR55WLED860S</td>
<td>55 W</td>
<td>240</td>
<td>≥80</td>
<td>6500 K</td>
<td>-</td>
</tr>
</tbody>
</table>

Driver code: LSSLOW0081 FOR 24 W, LSSLOW0083 FOR 55 W
Ballast lumen factor BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

Beam Angle

Indicates how broadly the light is emitted from a reflector lamp. It can be thought of as an imaginary cone whose apex intersects the lamp face, and the breadth of the cone extends outwards to the point where luminous intensity has diminished to 50% of the centre beam value.

Binning

The term binning refers to the variations which occur within a single production batch of LED’s such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED’s were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a “4-step” ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences.

Candela (cd)

The unit of measurement for luminous intensity, which refers to the quantity of light emitted in a particular direction. The symbol is cd.

Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.

Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

The CIE colour rendering index (CRI) is a method to determine how well a light source’s illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.

Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1850K. Therefore higher colour temperatures (5000K more) are called cool colours (blueish white); lower colour temperatures (2700 – 3000 K) are called warm colours (yellowish white through red).
Dimmability
The Havells lamps range includes Dimmable LEDs lamps. Most conventional dimmers have been designed for incandescent lamps and are therefore rated for higher minimum loads (W) than LED lamps consume. There may therefore be some restrictions in terms of functionality of dimmers with individual LEDs – but when more than one lamp is used to increase the total loading, dimming becomes easier. For full list of dimmer compatibility, please consult your local salesforce.

Drivers
Electronic devices that transform the high mains voltage into a constant current lower voltage for operating the LEDs. A miniature electronic driver is contained inside the base of each Havells LED lamp.

Glare
Discomfort glare is due to a high contrast between the source of light and the task. It is for that reason that luminance values are limited for certain tasks.

Heat Sink
A device used to conduct heat away from the LED sources and dissipate it to the surrounding air. The more efficiently an LED is cooled the greater its efficacy, light output and lifetime. Materials having excellent thermal properties and optimised cooling fin geometries are engineered into Havells Havells lamps and luminaires to deliver the pinnacle of performance.

Infrared (IR) Radiation
Comprises electromagnetic waves in the spectral range between visible light and microwaves, which produce a heating effect when absorbed by materials. All lamps and luminaires produce infrared radiation, but the quantity emitted by LEDs is far lower than other technologies and this makes them ideal for reducing air conditioning load, as well as for the illumination of heat-sensitive goods.

Illuminance
This definition determines the amount of light that covers a surface. If Ω is the luminous flux and S is the area of the given surface then the illuminance E is determined by E=Ω/S. The unit of illumination in SI system is lx, and in foot-pound system it is foot-candle. One lx is the illuminance of 1 m² surface area uniformly lighted by 1 lm of luminous flux.

Junction Temperature (Tj)
The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

LED (Light Emitting Diode)
The semiconductor in the LEDs we provide emits blue light. The colour of the light ultimately depends on the phosphors used on the surface of the LED or lens.

Lens
An optical component having two refractive surfaces, at least one of which is either convex or concave. In LED lamps the function of a lens is to focus or disperse the light rays to achieve the desired beam angle or light distribution pattern.

Lifetime
LED lamps can have extremely long lives, however their light output diminishes as they age. They can carry on working until they are emitting less than 10% of their initial light output, but with so little light left they would be practically useless. Havells defines the lifetime of its LED lamps the same way as for other lamps: i.e. the burning hours until the light output has decreased to 70% of the initial value, or when 50% of a group of lamps will have failed – whichever is the soonest. The International Electrotechnical Commission (IEC) is currently preparing an international standard based on similar threshold values.

Light
Light Electromagnetic radiation with a wavelength between 380-780nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light’s is greater than 720nm.

Lighting level
A measure of light falling on a particular point or surface. This unit is measured in lux.

Light output ratio (LOR)
The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

Lumen (lm)
Unit of luminous flux used to describe a quantity of light emitted by a source.

Lumen Maintenance
Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will the percentage, xx, of its initial light output.

* L80 = Time to 80% lumen maintenance, in hours
* L70 = Time to 70% lumen maintenance, in hours

For LED lamps and luminaires, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.
Luminance
The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cd/m²).

Luminous efficacy (lm/W)
Indicates how efficiently a light source converts electrical energy to light.

Luminous flux (lm)
The total light output of a light source measured in lumens.

Luminous intensity (cd)
The power of a source or illuminated surface to emit light in a particular direction, measured in candelas.

Lux (lux)
The unit of illuminance, equal to one lumen per square metre (lm/m²).

Illuminance cone
This shows beam angle and illuminance figures at different heights.

Polar curve
The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. They are absolute values.

Recycling
Havells lamps and luminaires are extremely durable and do not contain any mercury, lead or other toxic metals. However because their drivers contain electronic components they must be disposed of as waste electrical and electronic equipment at the end of their life.

Reflector
An optical component having a reflective surface (the surface could be specular or diffusing depending on the job it is required to do) surface, which captures light rays from the source and bounces them back at a particular angle. Although more commonly used in incandescent and halogen lamps, some Havells LED lamps use reflectors to control their light instead of a lens.

Room index K
An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

\[ K = \frac{a \times b}{h \times (a+b)} \]

where:  
\( a \) = room length  
\( b \) = room width  
\( h \) = height between the luminaire and working surface

Spacing to height ratio (SHR)
Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the distance between the luminaire plane and the horizontal working plane.

Switching Frequency
LED lamps cannot be switched on and off indefinitely, but are rated to tolerate an impressive 60,000 switching cycles or more.

Uniformity ratio of illuminance
This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. It becomes less even as the uniformity decreases. Typically you want 0.7 as a min for most schemes.

Ultra Violet (UV) radiation
Comprises electromagnetic waves in the spectral range between visible light and X-rays, which are invisible to the human eye but essential for all life (delivered via natural sunlight). Small amounts of UV are emitted by many light sources (e.g. Halogen and Discharge) and over time will cause fading of coloured objects being illuminated. Havells lamps and luminaires do not emit any UV radiation.

Utilisation factor
The ratio of the light flux which the reference surface receives to the total luminous flux. This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.
**Ingress protection ratings (IP)**

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers.

The first number indicates the measure of protection against the ingress of solids. For instance:

The second number indicates the measure of protection against the ingress of liquids. For instance:

---

### Ingress Protection (IP) Specification Guide

**Protection against the ingress of solid objects**

<table>
<thead>
<tr>
<th>IP No.</th>
<th>Example</th>
<th>Protection against contact and ingress of objects</th>
<th>Tests</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP 2X</td>
<td><img src="example1.png" alt="Example" /></td>
<td>Protected against solid objects greater than 50mm ø</td>
<td>A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50 mm in diameter.</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example2.png" alt="Example" /></td>
<td>Protected against solid objects greater than 12mm ø</td>
<td>Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in diameter.</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example3.png" alt="Example" /></td>
<td>Protected against solid objects greater than 2.5mm ø</td>
<td>Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example4.png" alt="Example" /></td>
<td>Protected against solid objects greater than 1.0mm ø</td>
<td>Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0 mm in diameter.</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example5.png" alt="Example" /></td>
<td>Dust protected</td>
<td>Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example6.png" alt="Example" /></td>
<td>Dust tight</td>
<td>No ingress of dust.</td>
<td></td>
</tr>
</tbody>
</table>

**Protection against the ingress of water**

<table>
<thead>
<tr>
<th>IP No.</th>
<th>Example</th>
<th>Protection against contact and ingress of water</th>
<th>Tests</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP 2X</td>
<td><img src="example7.png" alt="Example" /></td>
<td>Protected against dripping water</td>
<td>Dripping water (vertically falling drops) shall have no harmful effect</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example8.png" alt="Example" /></td>
<td>Protected against dripping water when tilted up to 15°</td>
<td>Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example9.png" alt="Example" /></td>
<td>Protected against spraying water</td>
<td>Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example10.png" alt="Example" /></td>
<td>Protected against splashing water</td>
<td>Water splashed against the enclosure from any direction shall have no harmful effect</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example11.png" alt="Example" /></td>
<td>Protected against water jets</td>
<td>Water projected by a nozzle against the enclosure from any direction shall have no harmful effect</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example12.png" alt="Example" /></td>
<td>Protected against heavy seas</td>
<td>Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example13.png" alt="Example" /></td>
<td>Protected against the effects of immersion</td>
<td>Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time</td>
<td></td>
</tr>
<tr>
<td>IP 2X</td>
<td><img src="example14.png" alt="Example" /></td>
<td>Protected against submersion</td>
<td>The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer.</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.
IK Ratings

Degree of Impact Protection EN62262.

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Measure of protection – impact energy (joules)</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>IK00</td>
<td>No protection to this standard</td>
<td></td>
</tr>
<tr>
<td>IK01</td>
<td>0.15</td>
<td>0.20 kg impact</td>
</tr>
<tr>
<td>IK02</td>
<td>0.20</td>
<td>0.20 kg impact</td>
</tr>
<tr>
<td>IK03</td>
<td>0.35</td>
<td>0.20 kg impact</td>
</tr>
<tr>
<td>IK04</td>
<td>0.50</td>
<td>0.20 kg impact</td>
</tr>
<tr>
<td>IK05</td>
<td>0.70</td>
<td>0.20 kg impact</td>
</tr>
<tr>
<td>IK06</td>
<td>1.00</td>
<td>0.50 kg impact from 200mm</td>
</tr>
<tr>
<td>IK07</td>
<td>2.00</td>
<td>0.50 kg impact from 400mm</td>
</tr>
<tr>
<td>IK08</td>
<td>5.00</td>
<td>1.70 kg impact from 295mm</td>
</tr>
<tr>
<td>IK09</td>
<td>10.00</td>
<td>5.00 kg impact from 200mm</td>
</tr>
<tr>
<td>IK10</td>
<td>20.00</td>
<td>5.00 kg impact from 400mm</td>
</tr>
</tbody>
</table>

When higher impact energy protection is required 50 joules is recommended.

Guide To Symbols

Electrical protection
EN60598

- Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.
- Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.
- Class III – Luminaire relies on protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated.

- Horizontal rotation
- Vertical tilt
- Ingress protection
- Impact protection
- RoHS compliant
Actual products may vary in colour, design, description and colour combination etc.

Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication. Specifications & performance data are constantly changing.

Current details should therefore be checked with Havells Group.

Copyright Subsists. Imitation of trade dress, graphics and color scheme of this document is a punishable offence.