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Endura Panel

- 48 W LED modular fixture suitable for recess mounting in grid ceiling
- Complete with HF driver
- High lumen output of 1900 lumen
- 200 lux on working plane at 2.0mtr. mounting light



Endura DL 16W

- 16 W LED downlighter in off white finish
- Complete with HF driver suitable for leading edge phase dimming
- Wide operating temperature of (-20 deg C) to (+45 deg C)
- Ultra cool colour temperature of 7K
- Suitable for recess mounting in false ceiling
- Milky white diffuser for wide light dispersal on working planes
- Long lasting (50,000 Hrs.) LED chips from CREE

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Endura S60

- Pressure die-cast aluminium alloy LM24 for housing and gear.
- extruded aluminium lamp housing heat sink
- High efficiency long life CREE LED chip in modules of 30W each (6x5 array)
- Epoxy powder coated siemens grey after phosphochromate treatment.
- Spread - (Beam angle along the driveway) - 120°, Throw - (Beam angle across the driveway) - 60°, Beam pattern - Asymmetrical batwing
- Replaceable integral electronic driver with APFC.
- Available in 30/ 60/120/ 180W for outdoor application



CMI Lamps

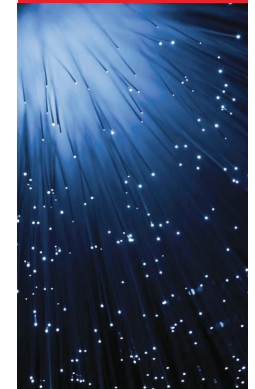
- New family of compact metal halide lamp with ceramic arc tube
- Superior performance, colour consistency and stability
- High luminous efficacy of metal halide
- Choice of Single ended (G9.5/ G12) base & double ended (RX7s/ RX7s-24)
- In house developed and patented discharge tube design
- Wide Range of complementing lighting fixture designs available for all applications
- Dedicated HF control gear for longer lamp life & stable operations
- Choice of 3K & 4K colour temperatures
- Wide range of 35 W / 70 W / 150 W available
- First time manufacturing of high end metal halide lamp in India

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Endura Lite & HID Lamps



Lighting Trends



LED : Light Emitting Diode

LEDs are miniature Light Sources made of solid state semiconductor material. They work on the basic principle of a p-n junction diode. When appropriate DC voltage is applied to it, the diode is forward biased (on), the electrons are able to recombine with holes and energy is released in the form of light.

This effect is called electroluminescence and color of light is determined by the energy gap of the semiconductor.

LED Lamp:

A LED lamp (also called LED bar or illuminator) is a type of solid state lighting (SSL) that uses light-emitting diodes (LEDs) as the source of light. They usually comprise clusters of LEDs in a suitable housing.

LEDs by nature emit light in a very small focused wavelength range that is characteristic to the energy band gap of the semiconductor. In order to overcome this, two primary methods of creating white light from LEDs are being used, Red-Green-Blue LEDs and phosphor converted LEDs.

Why LED:

Lower Energy Consumption
Longer Lifetime
Improved Robustness
Smaller Size

Cycling: LEDs are ideal for use in applications that are subject to frequent on-off cycling, unlike fluorescent lamps that burn out more quickly when cycled frequently or HID lamps that require a long time before restarting.

Environment Friendly - Does not Contain Mercury.

Solid package of LED can be designed to focus its light. Incandescent and Fluorescent sources require external reflector for the same.

LEDs are shock resistant being solid state components. Slow failure- LEDs mostly fail by reduction in light output over time rather than abrupt burn out. LEDs are easily dimmable.

Applications:

- Low energy indicators
- Signage
- General lighting
- Automotive Lighting
- Traffic Lights
- Text and Video Displays.
- Street Lights
- LCD Television
- Communication
- Sensors
- Light Matter Interaction

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Endura plate 2x3W

- Recess mounted Al. plate with frosted silver finish
- Suitable for 2x3W LED Endura lamp module

Endura plate 4x3W

- Recess mounted Al. plate with frosted silver finish
- Suitable for 4x3W LED Endura lamp module

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Endura lite SQ 4x3W

- Recess mount Al. plate in frosted silver finish in square profile
- Complete with 4x3W LED lamp module
- Extruded Al. heat sink for efficient heat dissipation
- Separate replaceable HF electronic driver

Endura lite RD 4x3W

- Recess mounted Al. plate in frosted silver finish in round profile
- Complete with 4x3W LED lamp module
- Extruded Al. heat Sink for efficient heat dissipation
- Separate replaceable HF electronic driver

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Endura lite

- Exclusive range of LED recessed spotlights in silver finish
- Choice of 3x1W & 1x3W lamp configurations
- Direct replacement for MR16 cutout size
- Range of LED recessed spotlight in silver finish
- Wide range of operating voltage (110V-240 V AC)
- Long lasting (50,000 hrs) LED chips from CREE
- Choice of 3K and 6K colour
- Separate replaceable HF electronic driver
- Flexibility of 360 deg Swivel

Endura rope

- Endura Lite rope
- Flexible strip in IP 65 construction
- Standard length of 1 mt. & 5 mts.
- Complete with 24V DC adaptor
- Long lasting (60,000 hrs) LED chips from CREE
- Colour temp of 7K for ultra cool effect, good for cove lighting
- Approx 5W/mtr. Consumption
- Very wide viewing angle of 120 deg for good light dispersal
- Linkable and easy to install with chips

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