

# LED DOWNLIGHTS & MODULES

## The feature review on LED Downlights

### Soleriq E LED for downlights with high performance requirements

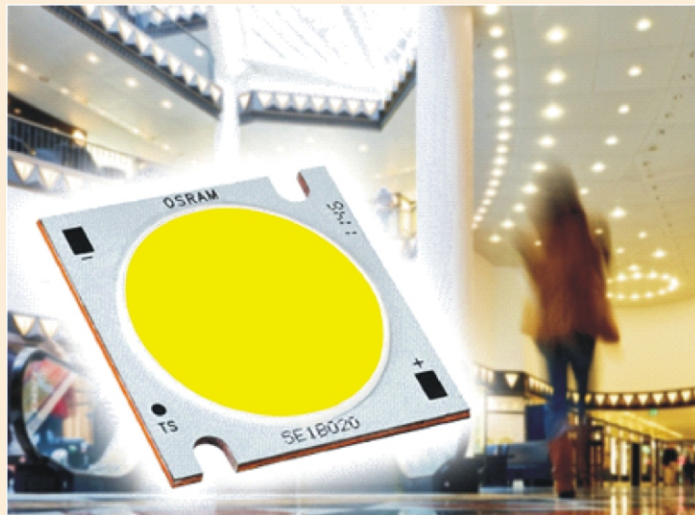
Downlights provide high-quality background lighting in professional applications. They are widely used in shopping malls, offices, industrial buildings and high-end residential premises, and with a special lighting requirement with a high luminous flux for their light to have the right effect. This is precisely what the new Soleriq LED series provides, the first chip-on-board LED from OSRAM Opto Semiconductors. Even at high application temperatures they create the basis for highly efficient luminaires with a luminous flux of 1500 lm to 4500 lm. Only one Soleriq-E-LED is needed to give a luminaire enough light. This makes designing luminaires much easier because only one component has to be integrated instead of lots of LEDs. The individual chips are all under the conversion layer (chip-on-board), giving the impression of a homogeneous light emitting surface. This ensures a uniform color and light appearance in the luminaire and even coupling into external light-guiding optics is very simple. The light generated can be used with much lower optical losses, which in turn makes the LED lamps and luminaires more efficient. Typical LED benefits such as high energy efficiency and long lifetime have an excellent impact in the downlights. Wide variety of applications

The Soleriq E is available in two versions, covering the entire color spectrum from 2700 to 6500 K. Even at a temperature of

85°C, which corresponds closely to the temperature in the application, the two LEDs offer an impressive efficiency of 103 lm/W at 4000 K. At this temperature the larger Soleriq E 45 achieves a typical brightness of 4000 lm (rated current 880 mA); the smaller Soleriq E 30 produces a lumen output of 2700 lm (at 600 mA). Good color homogeneity is achieved by the narrow white grouping of the Soleriq E, corresponding to a range of 4-step MacAdam ellipses. For solutions that need a particularly high level of color homogeneity, grouping based on 2-step MacAdam ellipses is also available.

Technical data:

Visit: [www.osram.com](http://www.osram.com)



Large lumen packages for use in downlights – the new chip-on-board LED Soleriq E.

Dimensions	30 mm x 30 mm x 1.7 mm (E 30) 36 mm x 36 mm x 1.7 mm (E 45)
Beam angle	120°
Lamp life	> 50,000 hours
Thermal resistance	0,38 K/W (E 30) 0,25 K/W (E 45)
Typical brightness at 4000 K (substrate temperature Ts at 85°C)	2700 lm (E 30, 600 mA) 4000 lm (E 45, 880 mA)
Other	Metal core board

## Polypack LED Downlights

POLYPACK is the flagship brand of Nav Shikha Polypack Industries (P) Ltd and is a brand which is synonymous with quality. POLYPACK is 33 year company that manufactures uPVC pipes. It has started manufacturing LED lights under the brand Aatapaha. dectris is a family of LED based downlights. It comes in three models - dectris table (15w), dectris surround (15w) and dectris mini (10w). dectris is based on LED module DEC1.1. This is why it is called 'THE INTEGRATED DOWNLIGHT'.

dectris offers a range of advantages over conventional lighting sources and CFL based downlights:

1. No mercury (environment friendly)
2. Long life (18 month warranty)
3. Energy saving (50% energy saving over CFL)
4. High energy efficiency (greater than 80%)
5. High power factor (greater than 0.9)

Apart from these benefits individually the various models of dectris give a great amount of flexibility to the lighting designer, thereby allowing him to save further.

dectris surround is the perfect general light, and is therefore fit for all downlighting applications, with a good light spread from wall to floor.

dectris table gives a more focused light beam making it the apt choice for offices, conference rooms, study rooms, kitchens. Thereby reducing light pollution completely.

dectris mini is a smaller sized downlight with an excellent light spread. It can be used as a standalone light and also as a complementary light to dectris table or dectris surround.

Nav Shikha Polypack Industries Private Limited  
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dectris surround



dectris table



dectris mini

## Agate LED Downlight Modules

Agate & Agate Marketing Resources offers variety of LED Modules for range of LED Lighting applications. LED Modules can be used to build , down lights , bulbs, panel lights etc.

These modules are available in different diameters & different lumens output to suit various applications. These modules demonstrates very high optical luminaire efficiency, comfortable, pleasant light without heat or UV

Options range from 300 lm to 3000 lm at a system efficiency of up to 75lm/W, with color temperatures of 3000K or 4000K.

All these modules are manufactured using state of art machinery

The company also offers Testing services for LED Luminaires using integrating spheres and Goniophotometer.

For Further details, please contact on:




Agate & Agate Marketing Resources (I) Pvt. Ltd

Email: [agate@ledindia.net](mailto:agate@ledindia.net) Web: [www.ledindia.net](http://www.ledindia.net)



## REIZ LED Downlights

REIZ Electrocontrols Pvt. Ltd. is the pioneer of LED luminaires in India having a 22 years track record. All REIZ manufactures the ethic luminaires as well as its components thereby ensuring the highest quality. As result REIZ is the only company giving a 5 year warranty on all its products. Given above below are the range of

Ghost Series	Orion Series	Trapeze Series
		
8W, 6500K 12W, 2700K	10W, 6500K 15W, 6500K 21W, 6500K	40W, 6500K 40W, 4000K
<i>Usage : As spot light for showroom, home, farmhouses, hotels, hospital, banks etc.</i>	<i>Usage : As diffused downlight for showroom, home, farmhouses, hotels, hospital, banks etc.</i>	<i>Usage : As diffused downlights in offices, banks, hospital etc.</i>
<ul style="list-style-type: none"> <li>• Recessed directional/fixe d down lighting flat trim round/oval aperture swiveling up to 35°</li> <li>• Construction in die-cast aluminium flat trim</li> <li>• Polyester powder coated with high U.V. &amp; corrosion resistance</li> <li>• Two parts mounting for easy installation and maintenance</li> <li>• Lamp and fixture holding system using stainless steel-304 fastening wing</li> <li>• Lamp holder carrier in extruded aluminium for better heatsink of LED</li> <li>• Strain relief cable clamp with terminal block</li> <li>• Ceiling thickness 12 to 30mm</li> <li>• Wire for mains supply cable 2c×1.5mm<sup>2</sup></li> <li>• Quick connect LED harness</li> <li>• Electronic control gear integrated, THD&lt;15%, PF&gt;0.95%</li> </ul>	<ul style="list-style-type: none"> <li>• Low glare deep recessed downlighter for soft downlighting</li> <li>• Construction in die-cast aluminium frame</li> <li>• Diffuser sheet microlinear frosted</li> <li>• Polyester powder coated with high U.V. &amp; corrosion resistance</li> <li>• Reflector aluminium 99.9% silver bright anodized</li> <li>• Lamp &amp; fixture holding system using stainless steel-304 fastening springs/wing</li> <li>• Lamp holder carrier in extruded aluminium for better heatsink of LED</li> <li>• Ceiling thickness 12 to 30mm</li> <li>• Strain relief cable clamp with terminal block</li> <li>• Wire for mains supply cable 2c×1.5mm<sup>2</sup></li> <li>• Quick connect LED harness</li> <li>• Electronic control gear integrated, THD&lt;15%, PF&gt;0.95%</li> </ul>	<ul style="list-style-type: none"> <li>• Recessed luminaire to provide indirect soft lighting</li> <li>• Pressed metal trim with mitered edges</li> <li>• Polyester powder coated with high U.V. &amp; corrosion resistance</li> <li>• White reflector with high total reflectance for maximum light output</li> <li>• Provision for hanging from ceiling</li> <li>• Lamp holder carrier in extruded aluminium for better heatsink of LED</li> <li>• Ceiling thickness 3 to 30mm</li> <li>• Strain relief cable clamp with terminal block</li> <li>• Wire for mains supply cable 3c×1.5mm<sup>2</sup></li> <li>• Quick connect LED harness</li> <li>• Dimension is 595×595×110mm</li> <li>• Electronic control gear integrated, THD&lt;15%, PF&gt;0.95%</li> </ul>

downlighters.

Contact : REIZ Electrocontrols Pvt. Ltd. 497, Udyog Vihar, Phase III, Gurgaon - 122 016.India.

Tel: 91-124-4006161 Fax: 91-124-4006162

e-mail: coordinator@reizindia.com; reiz@vsnl.com Website : www.reizindia.com, Skype : reiz93

## Liberty LED Downlights

Liberty Lighting is one of the pioneers in the field of Eco-Friendly Energy Saving LED lighting Products. They have more than two decades of experience in manufacturing of all type of lighting products. The manufacturing units are certified with ISO 9001:2008 and D&B GLOBAL DATA BASE company. The company offers an extensive range of Light Fittings and Luminaries for a variety of applications encompassing a range from domestic lighting to illumination of open areas, industrial complexes, offices, showrooms and hospitals, Malls, Educational Institutions, Hotels etc.



### LED Downlight Technical Specifications

INPUT VOLTAGE.....	AC85V~285V
FREQUENCY RANGE.....	40 HZ~60HZ
POWER FACTOR.....	>0.9
POWER EFFICIENCY.....	>87%
LIGHT OUTPUT.....	160°
LED.....	OSRAM GD PLUS
LED LUMINOUS EFFICIENCY.....	100~120LM/W
COLOUR TEMP. ....	6500K/5500K/4000K/3000K
LAMP EFFICIENCY.....	>87%
ELECTRICAL GEAR INTEGRAL.....	HF ELECTRONIC DRIVER WITH APFC
DRIVER PROTECTION.....	OUTPUT SHORT CIRCUIT & OVERLOAD (FOLD BACK)
SEARCH PROTECTION.....	1.5KV
JUNCTION TEMPERATURE.....	<70°C
WORKING TEMPERATURE.....	-25°C ~ +70°C
STORAGE TEMPERATURE.....	-40°C ~ +70°C
HOUSING.....	ALUMINIUM SHEET FOR BETTER HEAT TRANSMISSION.
IP STANDARD.....	IP20
ILLUMINANCE AREA-60°C	
HEIGHT 8 feet.....	8 * 8 feet
HEIGHT 10 feet.....	10 * 10 feet
HEIGHT 12 feet.....	12 * 12 feet
COLOR TEMPERATURE	
WW.....	2700K ~3000K
PW.....	3500K~5500K
CW.....	5500K~7000K
COLOR RENDERING INDEX	
WW.....	RA>68
PW,CW.....	RA>75

Contact:

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## energyGREEN LED Downlights

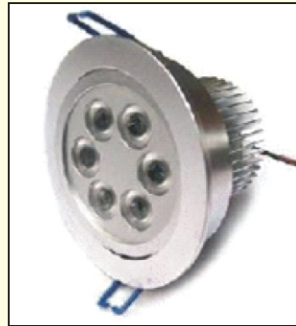
energyGREEN Pvt Ltd, LED solutions provider established in July 2011 and registered under MSME- DIC, Bhopal. Downlights designed with LEDs Opt Semiconductors take ambient lighting to a whole new dimension. They are Compact, powerful LEDs offer an instant on solution, dynamic color tuning, directional light, and environmentally friendly energy efficiency.

### Electrical Data

Input Voltage	110V-270V AC OR 12V-24V DC
Power Factor	> 0.95
Driver Efficiency	> 0.85

### Photometric Characteristics

Model No	EG-BL-03/05/07/12/15
Power Consumption	Upto 15W
LED Make	OSRAM
Luminous Efficacy	120 Lumen/Watt
Life Span	Approx.50,000hrs



Contact: Energy Green

Email:narendra@energygreen.co.in, Website:www.energygreen.co.in

## GlacialLight LED Downlights

GlacialLight LED Downlight series has four type sizes such as DL04, DL06, DL08 and DL10 to satisfy all demands. LED Downlight series is an ideal choice for almost all indoor commercial and residential applications, including office, hotel, restaurant, shopping mall, and households. GlacialLight LED DownLight series is available in three color temperatures, 3000K, 4000K, and 6000K. Users can choose from three color variants to suit their application's requirements. All LED Down Light models take an universal AC 100-240V power source, and contains no hazardous chemical such as mercury, and does not emit harmful UV or IR rays, making it more eco-friendly than traditional lighting fixtures.

### Features

Indoor use

High power efficiency > 80%

High luminous efficiency LEDs

No UV or IR radiation

Cool light minimizes rise in ambient temperature Energy saving and environmentally friendly Slim, compact and fashionable design CE and FCC certifications

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