



# Dyode

Product Data Sheet



[www.orbik.co.uk](http://www.orbik.co.uk)

# Dyode

## Unique fully recessed LED luminaire



Mains Luminaire



Emergency Luminaire



LED Luminaire

At just 50mm in diameter, **Dyode** is one of the smallest recessed LED based emergency luminaires currently available. The superbly designed refractor lens assembly is incorporated into a high quality injection moulded housing offering an IP20 protection rating which accentuates the virtues of the high power white LED light source.

By utilising a specially developed LED driver and advanced thermal engineering techniques to dramatically reduce the LED operating temperature, the light output level from the LED is guaranteed throughout the full emergency duration, ensuring the life of the LED exceeds 50,000 hours.

Two versions of the advanced lens designs are available. One specifically for corridor lighting (CR) offers an elongated distribution pattern to efficiently illuminate the centre line of escape route corridors and extends the spacing distance between luminaires. The second offers a more traditional cone distribution pattern for use in open areas (OA) or for specific task lighting. These unique features allow the emergency lighting scheme designer the option of incorporating the **Dyode** into an existing mains only luminaire, to create an unobtrusive, low maintenance, integrated emergency luminaire. Alternatively, they can be used in stand alone applications for emergency lighting.

The control circuitry is housed in a robust metal assembly and along with the Nickel Metal Halide battery pack is contained within a high quality flexible silicone sleeve which can easily pass through the 40mm cut out required for Dyode when mounted independently in a ceiling void. All **Dyode** products are available with a self-test facility as an option.



Standard **Dyode** luminaire

### Catalogue Numbers

#### Mains Luminaires

Cat No	Lamp & Mode	Mains Lumens	Weight
DY/LED/230A/OA	LED mains open area version	85	0.10Kg
DY/LED/230A/OA/H	LED mains open area high output version	140	0.10Kg

#### Emergency Luminaires

Cat No	Lamp & Mode	Emergency Lumens	Weight
DY/LED/NM3/OA	LED NM3 open area version	85	0.10Kg
DY/LED/M3/OA	LED M3 open area version	85	0.10Kg
DY/LED/NM3/OA/H	LED NM3 open area high output version	140	0.10Kg
DY/LED/M3/OA/H	LED M3 open area high output version	140	0.10Kg



Dyode emergency pack

#### Slave Luminaires

Cat No	Lamp & Mode	Emergency Lumens	Weight
DY/LED/#D/OA	LED slave open area version	85	0.10Kg

Replace # with AC/DC system Voltage **110** or **230** Volts

### Options

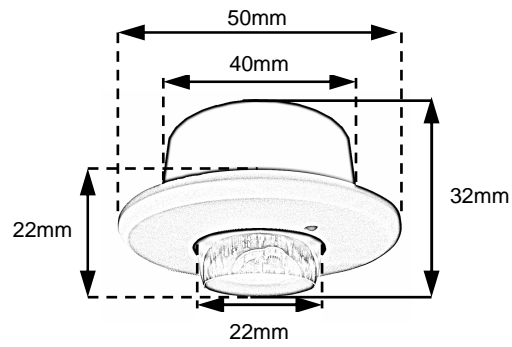
#### Suffix:

/AD	Intelligent addressable luminaire
/CR	Corridor version
/ST	Digital self-test luminaire

### Specification

Body/Diffuser:	850°C hot wire compliant polycarbonate
Charger LED:	Constant current with green LED for mains healthy and connected battery
LEDs:	3 Watt high lumen/Watt LEDs
Sleeving:	Silicone coated woven glass fibre (temperature range -60°C to +250°C)

## Dimensions



Mains Pack: Ø 75mm x 190mm Length  
Emergency Pack: Ø 75mm x 190mm Length  
Cut-Out Dimension: Ø 40mm

## Technical Information

Luminaire data files are available for inclusion into lighting design software packages. Photometric data is available at [www.relux.biz](http://www.relux.biz) and further lighting design information is available from our catalogue or [www.orbik.co.uk](http://www.orbik.co.uk).

## Installation Instructions

- Connect the mains cable(s), which should be a maximum of 1mm<sup>2</sup> solid core.
- The supply for a non-maintained emergency circuit must be unswitched and is connected to the unswitched input.
- The supply to a non-emergency circuit can be switched and is connected to the switched input.
- If a single unswitched supply is used for both emergency and normal use a link should be connected between the unswitched supply and switched supply terminals.
- Mark the battery pack with date of installation and connect the battery to the module.
- For testing purposes a fused spur or keyswitch should be included in the unswitched supply.