



# Cree XP-E led

cree XP-E led



## Technical Specification

Beam Angle: 160 degrees  
 Voltage: 24v  
 Power: 2.5 - 3w  
 Working temp: -40 to +60°C  
 IP Rating: IP65

Colour: Colour Temp/  
Wavelength  
 Pure White: 5700-6300

### Applications

Suitable for all types of signage, boxes, backlighting etc. 10 - 20cms deep. (More suited to illumination of large areas)

### Features

High output CREE XP-E LED can reach up to 180-200 lumens

4800mm string length with 18 modules per string

160 degree viewing angle

2.5 - 3w per module

Waterproof IP65 with ABS housing - Injection moulded

Made to CE and ROHS standards

Working temperature -40°C to +60)C

### Installation

Heat conductive adhesive tape to back. Fix to a thermal conductive material such as aluminium (essential for heat dispersion) then fix with screws.

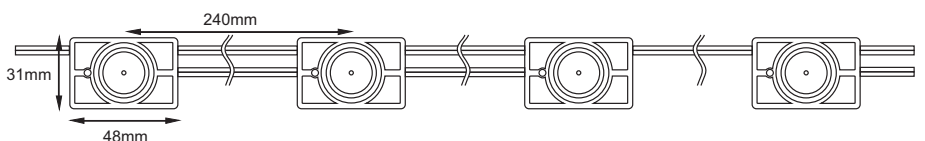
Can be cut every third module.

LEDs total wattage output should not exceed 70% of transformer

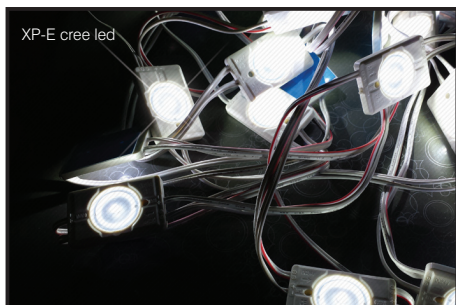
### Warranty

2 year warranty from date of purchase

### Dimensions



Can be cut every 3rd module



## Technical Helpline

02380 253290 / 07879 454457





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## halo**leds**

### Safety

As the LEDs are only 24v it is a relatively safe procedure to undertake. It is however preferable to have a little understanding of basic electrics before starting any work.

However it is paramount that you get a qualified electrician to wire into the mains and to check once complete.

### IP Rating

IP65 means that the modules are fully enclosed to the ingress of dust and they can withstand short jets of occasional water.

This means that they are pretty much waterproof.

### Applications

Our 'Cree XP-E' module can be used for a wide variety of applications and we have seen being used for:

- Backlighting Signage
- Inside of Lettering

### Transformers

For co-efficiency the transformers should only be used up to 70% of their capacity. Otherwise --The lifespan will decrease rapidly as will the LEDs

**Formula:** Transformer Wattage (ie 100w) x 0.70 / Module Wattage (ie 3w)  
 $100 \times 0.7 \div 3 = 23$  modules

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### Connectors

Caution and care need to be taken when connecting your wires, sometimes you may think you have a good connection only for it to fail after some time. Which ever connector you use, double check your work. We find small terminal blocks work well.

### Wiring

To compensate for voltage drop we always recommend wiring 18 at a time from the transformer. If you need to wire 34 for example:

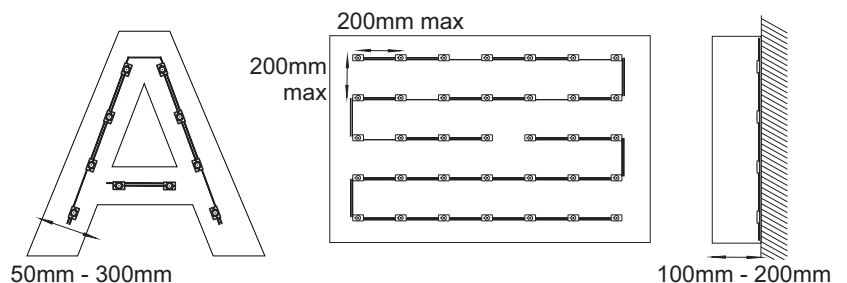


It is always required to keep the Transformer as close to the LEDs as possible

### Minimum Distances

As LEDs are mini spotlights there are minimum distances that the light needs to be from the surface to create an even light distribution. For the XP-E CREE LED module a minimum depth of 100mm is required and a maximum of 200mm is recommended.

When using to back light an area (ie lightbox) the maximum distance required is 200mm x 200mm between modules.



**Caution:**  
It is critical that these LEDs are fed from correct end.