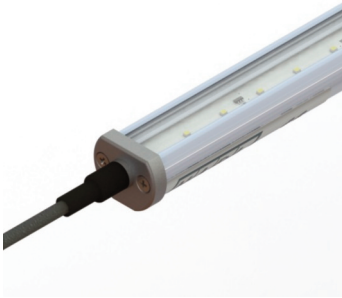




ORION LS2 LINEAR LIGHTING SYSTEM



FEATURES

- Uniform light output throughout length of unit
- Warm White versions available
- Cool White versions available
- Minimum 80 CRI
- Anodised aluminium housing
- Impact resistant
- For indoor use only (not potted, IP50 max)
Not for use in moisture prone environments such as kitchens, bathrooms etc.

BENEFITS

- Consistent illumination across long installations
- Warm white creates a soft, relaxing effect
- Cool white appears 'clean' and bright
- More accurate representation of colours under illumination
- Attractive and robust housing
- Outstanding reliability
- Lightweight

Marl Part Number	LED Colour (CCT)	Length	Typical Voltage DC Vopr	Typical Current Iopr	Typical Luminous Flux	Operating Temp Topr *	Storage Temp Tstg
LS2-300-3K-21	Warm White (3000K)	300	12	340	270	-20 to +75	-20 to +75
LS2-300-5K-21	Cool White (5000K)	300	12	340	270	-20 to +75	-20 to +75
LS2-300-3K-22	Warm White (3000K)	300	24	170	270	-20 to +75	-20 to +75
LS2-300-5K-22	Cool White (5000K)	300	24	170	270	-20 to +75	-20 to +75
LS2-600-3K-21	Warm White (3000K)	600	12	700	540	-20 to +75	-20 to +75
LS2-600-5K-21	Cool White (5000K)	600	12	700	540	-20 to +75	-20 to +75
LS2-600-3K-22	Warm White (3000K)	600	24	345	540	-20 to +75	-20 to +75
LS2-600-5K-22	Cool White (5000K)	600	24	345	540	-20 to +75	-20 to +75
LS2-1200-3K-21	Warm White (3000K)	1200	12	1400	1080	-20 to +75	-20 to +75
LS2-1200-5K-21	Cool White (5000K)	1200	12	1400	1080	-20 to +75	-20 to +75
LS2-1200-3K-22	Warm White (3000K)	1200	24	700	1080	-20 to +75	-20 to +75
LS2-1200-5K-22	Cool White (5000K)	1200	24	700	1080	-20 to +75	-20 to +75
		mm	V	mA	lm	°C	°C

RECOMMENDED POWER SUPPLIES

Any standard constant 12V or 24V can be utilised. The unit is supplied with flying leads only, which the customer will terminate according to their PSU.

Marl can supply the following recommended PSUs:

Manufacturer	Part Number	Application
Magtech	LP1020-12	12V Non-Dimmable
Magtech	LP1020-24	24V Non-Dimmable
Magtech	Q22-U12-XP	12V Dimmable
Magtech	Q22-U24-XP	24V Dimmable

NOTES

Intensities (lv) and colour shades of white may vary between LEDs within a batch. Additional LED Colours, Voltage Options and Flying Lead lengths available for semi-custom projects. Please contact our Sales Team. All LED components are supplied in anti-static packaging.

* Characteristics at Ta = 25°C. For operating temperature derating graphs, please refer to sheet 2.

To order please contact us on +44 (0) 1229 582 430

F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk

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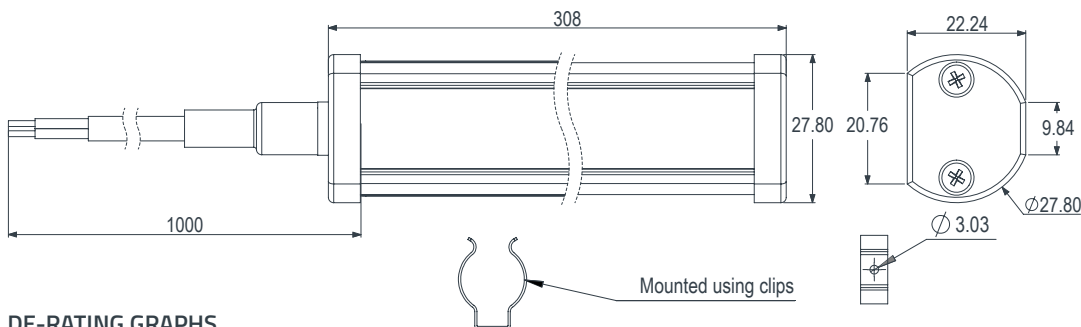
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TECHNICAL CHARACTERISTICS

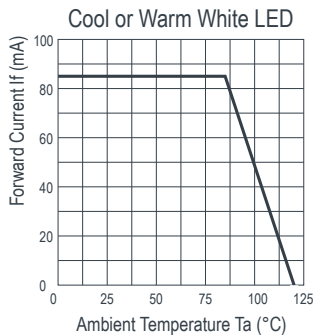
Series	Max. Power Dissipation
Orion LS2	3.5 per 300mm
	W

TECHNICAL DRAWING

Weight (g): 185 (300mm version), 321 (600mm version), 582 (1200mm version) - all including flying leads
 Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free.



DE-RATING GRAPHS



MATERIALS

Extrusion	Anodised Aluminium
End Caps	Anodised Aluminium
Cable insulation	Plasticised PVC
Lens	Polycarbonate
Screws	Stainless Steel
Heatshrink	Adhesive Lined Dual Wall 3:1 polyolefin

DESIGN CONSIDERATIONS

Electro-Static Discharge (ESD)

Build up of electro-static discharge occurs in many situations involving people moving and handling products. The range of possible situations is very diverse but voltage levels as high as several thousand volts can and do arise in many individual situations. When an operator charged up to these levels handles a static sensitive device, there is a very probable likelihood that the device will be irreversibly damaged. It is essential that precautions are taken at all stages during manufacture and assembly of these products. Although LEDs were never considered to be static sensitive

devices, changes in manufacturing technology and materials used to produce higher intensity products over a large range of the wavelength spectrum have changed this. Marl has an approved system of ESD control from goods in, through production and into final packing and despatch. Marl recommend all users of LED based products follow the guidelines of BS 100015.

Voltage, Current and Temperature

The forward voltage / current value of an LED is dependent upon the ambient temperature of the environment in which

it is operated. Therefore, care must be taken to operate the LED at the correct voltage / current values, depending upon the ambient temperature.

Marl should be contacted if the device is to be operated outside the temperature range specified. Marl accept no liability for any product that is operated outside the stated voltage or temperature range.

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