



890 SERIES HIGH CRI LINEAR LED LIGHTING SYSTEM



FEATURES

- Rigid unit with high CRI Yuji LED technology
- Minimum 95 CRI
- Uniform light output throughout length of unit
- Warm White versions available
- Cool White versions available
- Available in RGBW with remote control
- Anodised aluminium housing
- Impact resistant
- For indoor use only – Not for use in moisture prone environments such as kitchens, bathrooms etc.

BENEFITS

- High quality, high CRI
- More accurate representation of colours under illumination
- Consistent illumination across long installations
- Warm white creates a soft, relaxing effect
- Cool white appears 'clean' and bright
- Plug and play colour change system
- Attractive and robust housing
- Outstanding reliability
- Perfect for film lighting and high-speed shooting
- Lightweight

PART NUMBERS

To order, create a part number in the following structure:

890-CT-L-EC/LEN

Where

- 890** = Product Series: 890 Series
CT = Colour Temperature: 27 = 2700K, 32 = 3200K, 40 = 4000K, 56 = 5600K, 65 = 6500K, RGBW = (W 3200K / 5600K)
L = Lens type: D = Diffused, C = Clear
EC = End Cap: 50 = No End Cap, 51 = Darvic End Cap
LEN = Length of unit: 300 = 300mm, 400 = 400mm, 500 = 500mm, 600 = 600mm, 700 = 700mm, 800 = 800mm, 900 = 900mm, 1000 = 1000mm.

Example:

- 890-32-D-51/500 = 890 Series 3200K, Diffused, Darvic End Cap, 500mm
 890-65-C-50/1000 = 890 Series 6500K, Clear, No End Cap, 1m
 etc.

Aluminium end caps available on request - please contact Sales for availability.

SPECIFICATIONS

Light Output (Typical)	Max. Power Consumption	Operating Temperature	Storage Temperature	Voltage Input	CRI	Sealing Specification	MTBF
1300lm per metre	18W/lm	-25°C to +55°C	-30°C to +70°C	24Vdc	95 min.	IP33	36,000 hours

MATERIALS

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

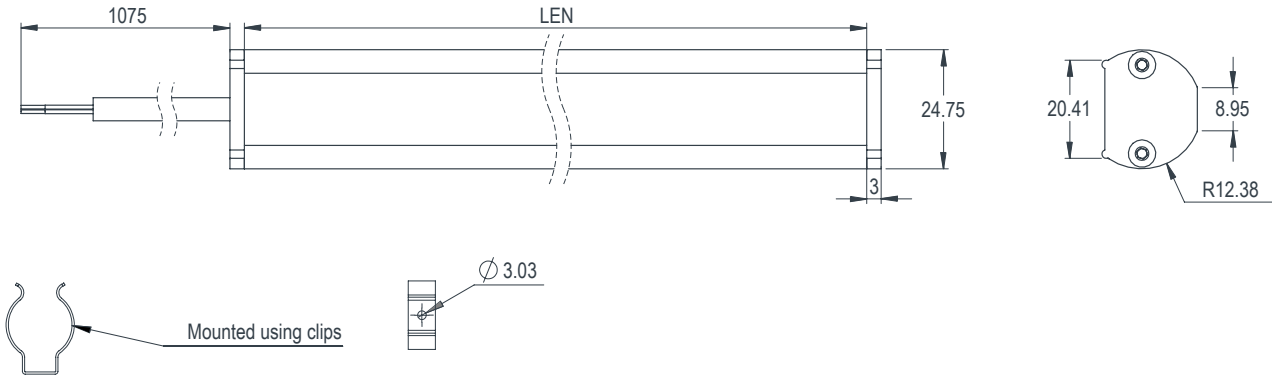
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DRAWING

Dimensions in mm (typical). Not to scale. LEN denotes length of unit as chosen on page 1.
Weight: 171g for 300mm model



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 current BSI guidelines for protection of electronic devices from electrostatic phenomena.

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.

Heat Management

Heatsinking is not necessary if product is used in standard indoor environments where ambient temperatures do not exceed 50°C. Our testing at Ta = 25°C shows LED solder point temperatures stabilising at 68°C. Maximum allowed LED solder point temperature is 105°C.

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