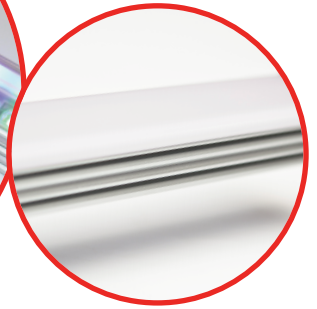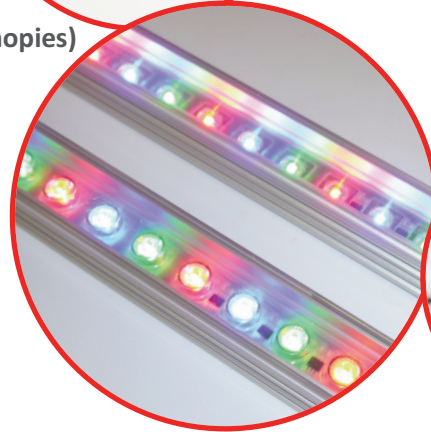# KXM Series (23W/m)

IP-rated, Compact Mid Power Linear Luminaire, 50 LEDs per metre

- **Suitable for indoor/outdoor use (e.g. beneath canopies)**
- **High output, low profile**
- **Compact 32mm x 25mm (cross section)**
- **50 x Mid Power LEDs per metre**
- **Simple parallel wiring for ease of installation**
- **Low power consumption, low heat**
- **360mm increments (P820 PCB)**
- **Long life - 50,000hrs typical**

Description

Attractive, compact linear luminaire, made from an aluminium extrusion (32mm x 25mm cross section). The KXM Series luminaire is fitted with 50 x mid power Osram LEDs per metre with wide angle **(WA)**, very wide optics **(VWO)** or elliptical optics **(EL)**, a clear polycarbonate filter and moulded endplates. Each luminaire is terminated with a 1 metre, 4-core flying lead (other lengths available) via a cable gland at the rear of the extrusion. The circuit boards are fitted with on board "linear regulation", allowing *parallel* wiring for ease of installation. Supplied with custom designed mounting brackets to allow for adjustment. *Connect to 24VDC constant voltage njo control boxes or power supplies. Fitting lengths and electrical details are shown on page 2.*

Characteristics

Optical

Number of LEDs = 50 x mid power LEDs per metre
Optics:
Very Wide Optics **(VWO)** = Ledil Siri Dome
Elliptical Optics **(EL)** = Carclo IP-rated optics
Wide Optics **(WA)** = Carclo IP-rated optics

Colour	Wavelength	Output/metre
Red	*625nm*	*270lm*
Green	*528nm*	*445lm*
Blue	*470nm*	*130lm*

Note: Lumen output accounts for an 90% optic efficiency.

Electrical

Operating Voltage Range = 23.0-25.0VDC (24VDC typ.)
Typical Current = 0.95A per metre (Configured in 3 strings of 6 LEDs, each string running at 113mA)
Power Consumption = 23W max. per metre
Above data is for njo P820 PCB
Luminaire Classification = Class III (In accordance with BS EN 60598-1:2008)

Mechanical

Housing = Powder-coated aluminium
Filter = Extruded clear polycarbonate
End Plates = Injection moulded polycarbonate
Mounting Brackets = Stainless steel
Termination = 4-core PUR cable, 0.34mm² CSA, 4.5mm O.D. (njo ref. W413), length 1 metre
IP Rating = IP66
Resin = Partial fill with electronics-grade silicone
Product Weight = 0.9kg per metre

Selection Guide

KXM1520	PS-	RGB-	WA-	C-	24-	2M
Product Series	**Housing**	**LED Colour**	**Output Angle**	**Filter**	**Voltage**	**Cable**
KXM = Compact Linear LED Luminaire **1520** = Length in mm	**PS** = Powder-coated Silver (RAL9006) **PW** = Powder-coated White (RAL9010)	**R** = Red **A** = Amber **G** = Green **B** = Blue **CW** = Cool White **MW** = Mid White **WW** = Warm White **RGB** = Colour Change **RGBW** = Red, Green, Blue & White	**WA** = 40° **EL** = 45° x 16° **VWO** = 120° (Other optic angles available, please ask)	**C** = Clear	**24** = 24VDC	**2M** = Metre Cable **5M** = Metre Cable (if a 1 metre cable is fitted, no code needs to be added)

Example KXM1520-PS-RGB-WA-C-24 (KXM 1520mm, Powder-coated Silver, Red, Green & Blue LEDs, Wide Angle Optics, Clear Filter, 24VDC, 1 Metre Cable)
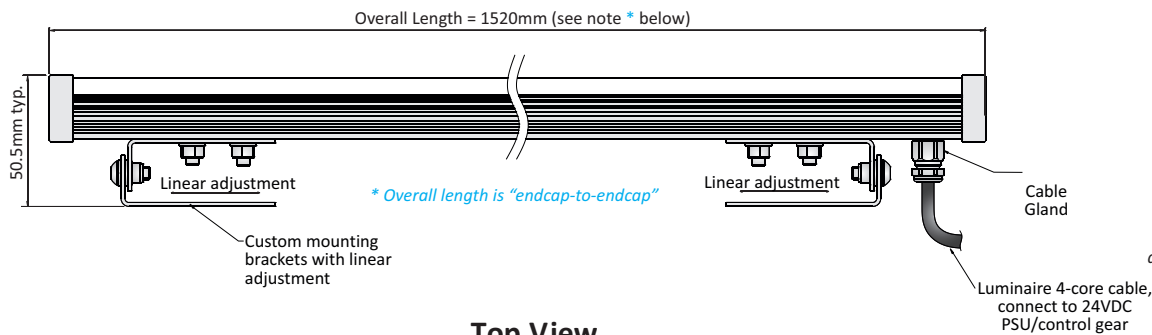
KXM Series (23W/m)
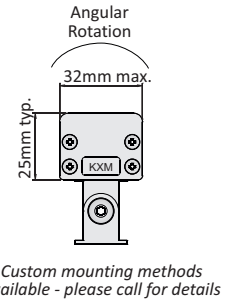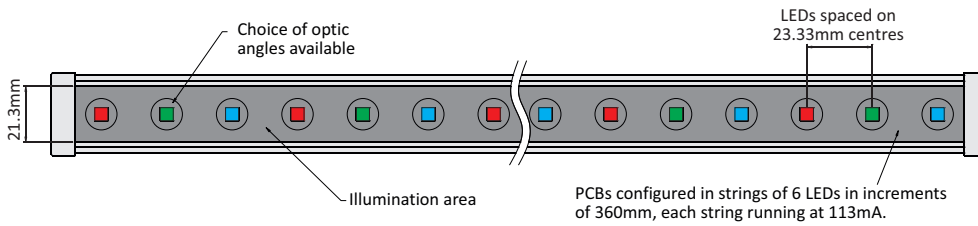IP-rated, Compact Mid Power Linear Luminaire, 50 LEDs per metre

njo creative leds

Mechanical Details

Side View

Overall Length = 1520mm (see note * below)

50.5mm typ.

Linear adjustment

Linear adjustment

Cable Gland

Overall length is "endcap-to-endcap"

Custom mounting brackets with linear adjustment

Luminaire 4-core cable, connect to 24VDC PSU/control gear

End View

Angular Rotation

32mm max.

25mm typ.

KXM

Custom mounting methods available - please call for details

Top View

21.3mm

Choice of optic angles available

LEDs spaced on 23.33mm centres

Illumination area

PCBs configured in strings of 6 LEDs in increments of 360mm, each string running at 113mA.
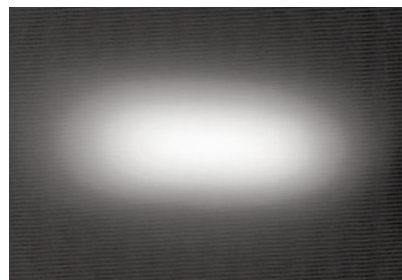
Standard Lengths
(project specific lengths available)

Part Number (Type)	Overall Length (mm)	Number of LEDs	Max. Current	Max. Wattage
KXM800	1520	36	0.68A	17W
KXM1160	1160	54	1.02A	25W
KXM1520	1520	72	1.36A	33W
KXM1880	1880	90	1.70A	41W

Photometric Information *(Elliptical optic)*

Spot Image

Cross Section Diagram

Min = 7.16 (Cd)
Max = 466 (Cd)
Average = 231.8 (Cd)

50 %
Full Angle = 45.54 Degrees

Luminous Intensity - Candela

Degrees
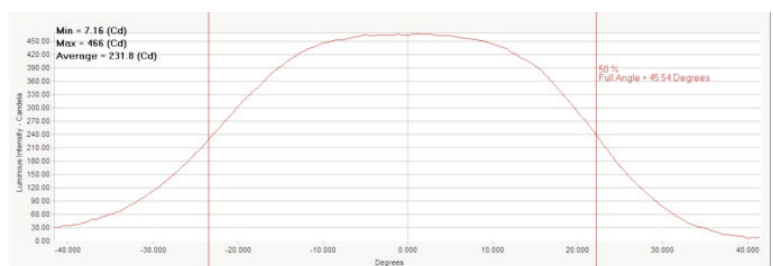
The appearance and specifications of the product may be modified for improvement without notice.

www.njoleds.co.uk   *Datasheet Ref: KXM-50-02*