

LEDPRO · CRYSTAL FLEX · 48V

Crystal Flex S20-48V

Transparent, flexible 48V linear LED lighting for long continuous architectural and infrastructure installations. Multiple light outputs, silicone protection and a 20 × 10 mm profile.

Transparante, flexibele 48V LED-verlichting voor lange doorlopende lichtlijnen in architectuur en infrastructuur. Leverbaar in meerdere vermogens, met siliconen bescherming en een profiel van 20 × 10 mm.

48V DC

IP68

20 × 10 mm

Up to 200 m*

2 / 5 / 9 / 12 W/m

Key Advantages

Long continuous runs

Single-end powering up to 200 metres in the 2 W/m configuration, subject to installation design.

Lange doorlopende

lichtlijnen. Voeding vanaf één zijde tot 200 meter bij 2 W/m, afhankelijk van het installatieontwerp.

Transparent flat profile

A compact 20 × 10 mm silicone construction suitable for visible linear effects and recessed applications.

Transparant, vlak profiel.

Compacte siliconen uitvoering van 20 × 10 mm voor zichtbare lichtlijnen en inbouwtoepassingen.

Flexible mounting options

Compatible with factory-moulded terminations and dedicated suspension or stainless-steel mounting accessories.

Flexibele montage.

Met fabrieksmatig aangegoten aansluitingen en optionele ophang- en roestvaststalen montageaccessoires.

Product Overview



Architectural bridge lighting application

Technical Specifications

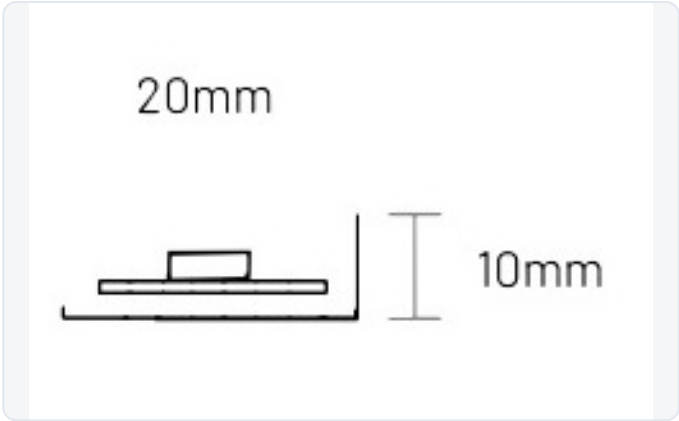
48 V DC Operating voltage	IP68 Protection rating (factory configuration)	CRI >80 Colour rendering index	285 g/m Approx. weight
20 × 10 mm Cross section	Ø 300 mm Minimum bend diameter	~102.1° Average beam angle (documented example)	48 V · 4 powers 2, 5, 9 or 12 W/m

Parameter	Value
Working ambient temperature	−40 to +55 °C
Storage temperature	−40 to +60 °C
Maximum mounting-surface temperature	85 °C
Nominal colour temperatures	2200 / 2700 / 3000 / 3500 / 4000 / 5700 K
Cut increment	250 mm (2 / 5 / 9 W/m); 166.7 mm (12 W/m)
Product family reference	S20-48V (LEDPRO)

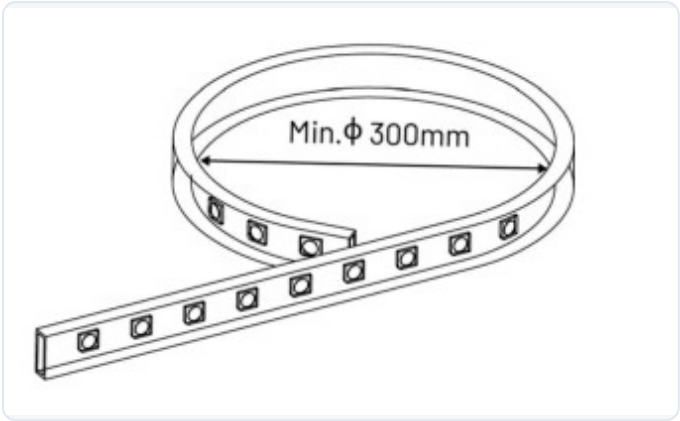


Crystal Flex S20-48V · transparent surface, unlit and illuminated

Dimensions and Bend Radius



Cross-section · 20 × 10 mm



Minimum bending diameter · Ø 300 mm

Bend only in the designated bending plane and never below the specified minimum diameter.

Maximum Single-End Feed Length and Connected Load

Power	Maximum documented feed length	Calculated load at maximum length
2 W/m	200 m	400 W
5 W/m	180 m	900 W
9 W/m	120 m	1,080 W
12 W/m	100 m	1,200 W

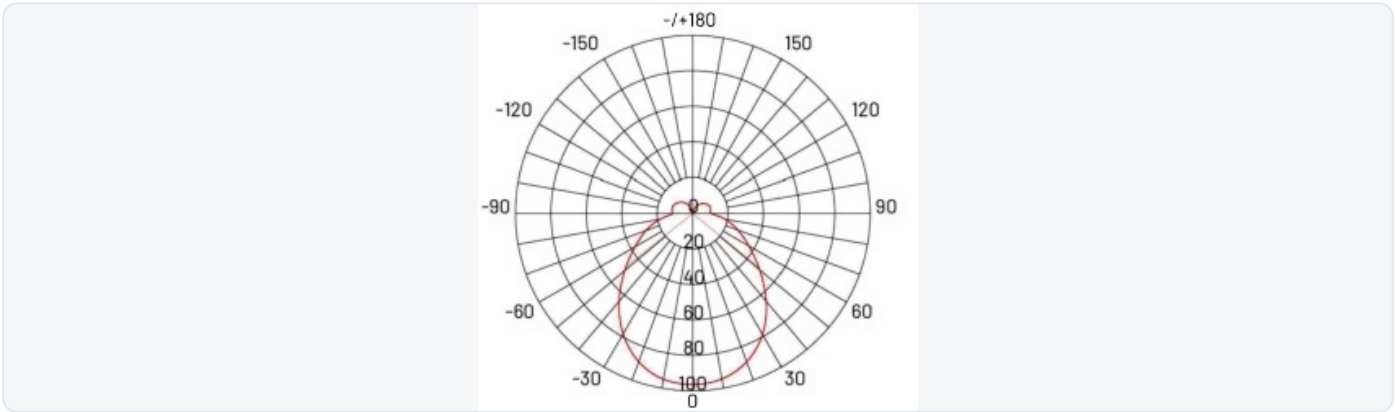
The wattages shown are arithmetic totals (metres × W/m), not a driver selection. They do not imply that lines must be divided into equal 20 m sections. Actual connection design, cable size, voltage drop and power supply capacity must be checked per project.

Light Output

Power	2200K	2700K	3000K	3500K	4000K	5700K
2 W/m	>170	>170	>170	>180	>180	>180
5 W/m	>400	>400	>400	>420	>420	>420
9 W/m	>670	>670	>670	>700	>700	>700
12 W/m	>910	>910	>910	>950	>950	>950

Minimum luminous flux in lm/m, as specified in the factory data; 2200–5700 K variants. Light output differs by selected CCT and power.

Photometric Curve



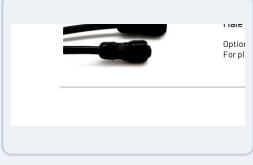
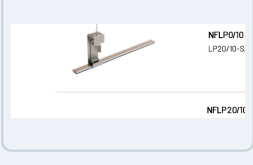
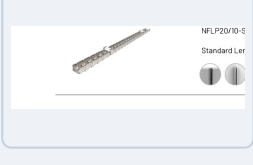
Factory reference distribution · average beam angle about 102.1°

Available Configurations

LEDPRO product family	Power	Available CCTs	Cut increment
Crystal Flex S20-48V	2 W/m	2200 / 2700 / 3000 / 3500 / 4000 / 5700 K	250 mm
Crystal Flex S20-48V	5 W/m	2200 / 2700 / 3000 / 3500 / 4000 / 5700 K	250 mm
Crystal Flex S20-48V	9 W/m	2200 / 2700 / 3000 / 3500 / 4000 / 5700 K	250 mm
Crystal Flex S20-48V	12 W/m	2200 / 2700 / 3000 / 3500 / 4000 / 5700 K	166.7 mm

For available order codes and application-specific configurations, contact LEDPRO.

Accessories & Mounting Profiles

Image	Accessory / profile	Description	Reference
	Factory-moulded End Feed	IP68 injection-moulded power entry at the end of the strip	Factory finish
	Factory-moulded Endcap	Pre-installed termination; not a loose cap	Factory finish
	Anti-wicking Ferrule	Helps prevent ingress along cable conductors; must remain fitted	Integrated protection
	Male / Female Connector	Optional plug-and-play power junction, subject to specified connector IP rating	Optional
	Suspension Kit	Wire-rope hanging and adjustable mounting arrangement	S20-48V-S/KT*
	Stainless Steel Mounting Profile	Corrosion-resistant mounting profile; nominal length 500 mm	S20-48V-S/ PL-500MM-SSL*

Factory-moulded connectors and endcaps form part of the finished strip and are not separate loose components. *Accessory references are indicative; confirm the ordering reference with LEDPRO.

Technical advice and project configuration

Contact LEDPRO for specifications and project support.

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