



# Steel profile | 24VDC | CRI 90

### Description

L110X is a linear, curved IP67-rated LED luminaire, made in AISI 316L stainless steel, for flush installation on floors in indoor or outdoor areas. It is available with custom curvatures to follow every project. No end caps needed to ensure continuity of light. Driveover. The LED light source, with diffused light distribution, is composed of 408 LEDs/ m (3.3 ft) and a IRC >90 with a nominal efficiency of 80 lm/W. The protection degree is IP67. The power supply driver is not supplied and must be ordered separately. The total absorbed power by the device is 22 W/m (3.3 ft), available with various color temperatures, tunable white or RGBW. The power cable (2x0.5mm²) 39.4" (100cm) length and installation channel included are included.





Technical data		
Product type	Linear or curved profile	
Installation position	Floor	
Fixture Dimensions	1.97" x 1.06" h (various curvatures)	
IP rating	IP67	
Impact Resistance	IK10	
Working Temperature	-22° F / +131° F	
LED Life / Failure Ratio	L80 B10 >50.000h	
Driver included	NO	
Orientability	NO	
Walkability	Yes	
Driveover	Yes	
Cable included	Yes - <b>39.37"</b> (100cm) 2x0.5mm <sup>2</sup>	
Electrical data		
I ED have a	SMD 3014 SHINEON	
LED type	SMD 5050 PROLIGHT - rgbw	
	22 W/3.3 ft (1m) - monochromatic	
Consumption / 3.3 ft (1m)	24 W/3.3 ft (1m) - tunable white	
	36W/3.3 ft (1m) - rgbw	
Voltage	24	
Color Temperature	See table	
Chroma Rendering Index	>90 Ra	
Optic	Diffused	
Dimmable	Yes	

Body material and finish			
Material	AISI 316L stainless steel		
Finish	Steel		
Diffuser material and finish			
Material	Polyurethane resin		
Finish	Opal		

The product belongs to F class refer to Energy Efficiency Class, referred to Regulation (EU) 2019/2015.

Code	CCT (K)	Luminous Flux** lm/3.3 ft (1m)
L110X-2x10. <b>V8</b> .24.67.F	2200	
L110X-2x10. <b>V2</b> .24.67.F	2500	•
L110X-2x10. <b>V5</b> .24.67.F	2700	1560
L110X-2x10. <b>V</b> .24.67.F	3000	•
L110X-2x10. <b>W5</b> .24.67.F	<u>4000</u>	
L110X-2x <b>TW8</b> .24.67.F	2700-6000	1900
L110X-2x <b>RGB4W</b> .24.67.F	RGBW	1600

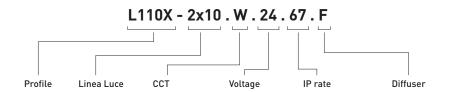
components, values for light output and electrical power can vary up to 5%. Binning: 3 MacAdam. .LDT e .IES files available on the site or on demand.





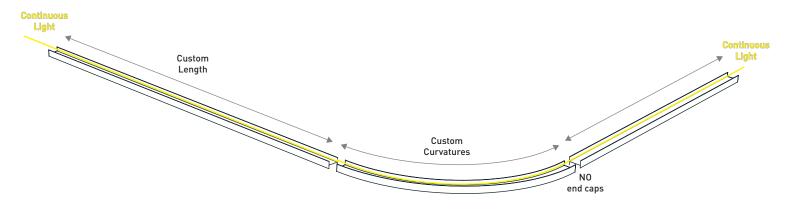
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## Code composition example



Cable type		Description	Code
39.4 in*	<u>IP68</u>	Water immersion and outdoor FEP R5F power cable with thermoplastic polyurethane sheath. Black. IP68. 2x0.50mm2+ n. 2 Kevlar wires (maximum tensile stress 3.31 lbs - CEI EN 50565-1 : 2015-02). External Ø 0.21".	SP-CA-68-2-1
**************************************	IP68	Water immersion and outdoor FEP R5F power cable with thermoplastic polyurethane sheath. Black. IP68. 4x0.50mm2+ n. 2 Kevlar wires (maximum tensile stress 3.31 lbs - CEI EN 50565-1 : 2015-02). External Ø 0.23".	SP-CA-68-4-1
8 B + 39.4 in*	IP68	Water immersion and outdoor FEP R5F power cable with thermoplastic polyurethane sheath. Black. IP68. 5x0.50mm2+ n. 2 Kevlar wires (maximum tensile stress 3.31 lbs - CEI EN 50565-1 : 2015-02). External Ø 0.24".	SP-CA-68-5-1

<sup>\*</sup>Standard cable length 39.4". Longer cable lengths can be ordered, considering extra cable not included in the price.























# DRIVE LINE / L110X





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### Certifications

#### 100% MADE IN ITALY

The model is entirely manufactured in Italy, factory is located in Carmagnola (TO) Italy. Both PCB manufacture, LEDS soldering, resin processing are made with automated lines under our internal specifications. The product is compliant to EUR1 rules.

LED ITALY is applicant to ISO 9001-2015.

LED ITALY is applicant to ISO 14001-2015.

LED ITALY is applicant to 100% Made in Italy

#### WARRANTY

The product is guaranteed for 5 years from the purchasing data. The guarantee covers against all the manufacturing defects. The guarantee is valid only when the product is used under its specifications and without any pilfering, breaking, alterations, modifications and uses according to wrong technical directions or set up in inadequate mechanical parts. LED ITALY has the right to verify technically the product to validate the guarantee.

#### REFERENCE STANDARDS

LED ITALY products comply with the following International standards:

- LED modules for general lighting Safety specifications: IEC EN 62031:2008+A1:2013+A2:2015;
- Low voltage directive: 2006/95 / CEE EMC- EN5008-1-1.2004 / 108 / CE, EC 61140, EN 62471, ERP 98 / 1EC, 92 / 75EEC EN55022, EN5008 -2 Directive EMC: 93/68 / CFF 89/336 CFF
- Annex 2006/95 / CE / 2004/108 / CE: EN 60598-1, EN 60598-2-1 EN 61347-2-12, EN61347-2-13, EN62031, EN632384, EN 55015, EN 61000-3-2, EN 61000-3-3 EN 61547.

Note: All strips are low voltage operating on 12-24VDC. Without direct connection to the mains supply, products are therefore inherently Ae as they operate from less than 75Vdc as specified in the Low Voltage Directive 72/23/EEC.

The product belongs to G class refer to Energy Efficiency Class, referred to Regulation (EU) 2019/2015.

#### Warnings and Maintenance

#### WARNINGS

- The degree of protection offered by the system is only guaranteed if the installation is completed correctly;
- The cable cannot be replaced; if it is damaged, you must replace the product;
- Best temperature for assembly is between +18 °C and +45 °C;
- Best temperature for storage is between -30° C and +85 ° C;
- Keep the product switched on for at least 30 minutes in the place of installation, before unrolling it;
- The installation surface must be dry and clean, free of dust, grease, oil or separating agents.

#### MAINTENANCE

- Attention: previously cut off the mains supply and allow system to cool down;.
- Clean the appliance regularly with a smooth damp cloth. Use only water and neutral soap.
- Avoiding the use of chemical solvents and/or abrasive cloths.
- Detergents must have a low solid content for easy removal.
- It is important to make sure that the detergents that are used for cleaning must be removed once the washing is finished, either
- manually or by simple evaporation;
- Check that there are no cleaning products in contact with the luminaires for a long time;
- Do NOT use pressure washers. The pressure of the water jet can damage the surface of the the luminaires.

### CHEMICAL SUBSTANCES INCOMPATIBLE WITH POLYURETHANE RESIN

List of chemical substances that can interact with two-component polyurethane resins, causing deterioration and cracking of the structure:

- Methylene chloride
- Toluene, Xylene, Benzene, Diesel in general
- **Turpentine**
- Hydrochloric acid
- Sulfuric acid
- Nitric acid
- Caustic soda or potash
- Some anti-algae or anti-fungus products on the market
- Non-neutral soaps or detergents

In general, the combination of a strong jet of pressurized water, at temperatures greater than or equal to 40°C, with the addition of one of these substances significantly increases the possibility that the polyurethane will be degraded in just 6 months.

They do not attack polyurethane, chlorine in various forms and bleach (sodium hypochlorite), neutral soaps, weak acids and bases and polar protic solvents, methanol, ethanol, propanol, butanol.

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# Test Report

The materials used on LED ITALY products have been subjected to the following tests:

Transparent (VT 3402 KK NV)

Type of support: PVC

Opal (VT3402	Opal)		
DESCRIPTION	NORM	ESECUTION	RESULTS
Gloss at 60°	UNI EN ISO 2813	Gloss value at 60°	Compliant
Neutral salt spray	ISO 7253	Exposition 1500 h, purity degree of salt 99,5% NaCl in solution with demineralized water; Electric conducibility < 20 $\mu$ S/cm, concentration of test solution 50 $\pm$ 5 g/l	Checked cracking, blistering or water absorption. <b>Compliant</b>
Humidity chamber	UNI EN ISO 6270	Exposition 1500 h, at 50°C RH>95% in constant saturated atmosphere	No cracks, blistering, softening of the resin layer, no gloss variation or water adsorption <b>Compliant</b>
Resistance against immersion of the f	ollowing fluids:		
Swimming pool	N.D.	5 ppm sodium hypochlorite, derived from the hydrolysis of the pool disinfectant (sodium dichloroisocyanurate 56%) approx. pH 7 (obtained with sodium bisulphate hydrolysed in sulfuric acid)	No softening, colour change or deformation of the resin film <b>Compliant</b>
Water	ISO 2812 - part 1 method 1	Exposition 250 h at 25°C	Resin layer unaffected, no changement or softening. <b>Compliant</b>
Hydrochloric Acid	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 8,5% at 20°C	Resin layer unaffected, no changement or softening. <b>Compliant</b>
Sodium hydroxide	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 20% at 20°C	Resin layer unaffected, no changement or softening. <b>Compliant</b>
Isopropyl alcohol	ISO 2812	Exposition 48 h at 20°C	Film slightly modified, no softening, mass alteration (-5-6%)
Stone chipping	ASTM D 3170	Resistance to stone and gravel chipping. ASTM D 3170: <7B	Compliant
QUV test	ISO 16474	Exposition 1000h ΔE check	Compliant
Heat Resistance	MS CG-12	Exposition 500 h at 80°C	Resin layer unaffected, no deformation, colour changement or softening. <b>Compliant</b>
Resistance to high temperatures	GM 6073	Exposition 1 h at 93°C	Resin layer unaffected no deformation, colo changament or softening. <b>Compliant</b>
IK10 Test	IEC 62 262	Impactor regulated 20 joules of energy, radius 50 mm, 5 kg of mass, height of drop 400mm	No breaks. <b>Compliant</b>