

Last information update: April 2025

**Product configuration: E493**

E493: Side-Bend 16mm version - Warm white Led - 24Vdc - L=354mm

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**Technical description**

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=354mm. The led circuit is completely IP68 encapsulated with a white (outside) and milky finish (over light emission) high performance polymer sheath: this material allows the device to be installed and used even at extreme temperatures: -30°C +45°C. Underscore InOut SIDE-BEND can be used to create straight or curved lines on flat surfaces. Even, spotfree lighting is guaranteed along the entire strip profile up to the end parts. On both ends (not the head), the product is supplied with a cable L=80mm with IP68 male and female connectors fitted with an anti-detachment locknut. The product is supplied with a stainless steel wire to stop the body from misshaping as this may damage the led circuit. Easy to install and a robust design for difficult environments (for example, it is salt water, UV and solvent resistant). Minimum curving radius 150mm for 16mm SIDE-BEND versions. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

**Installation**

Surface-mounted (ceiling and wall) using accessories to be ordered separately. The installation accessories available include end-low aluminium profiles with slots (L=104mm) and intermediate-low aluminium profiles with no slots (L=998mm to be cut to size) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and AISI 316 stainless steel low clips (L=40mm) ideal for curved sections are available. High linear aluminium profiles (L=1000-2000mm) are available and high aluminium and AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

**Colour**

White (01)

**Weight (Kg)**

0.15

**Mounting**

wall arm|wall surface|ceiling surface

**Wiring**

24Vdc  $\pm 5\%$  LED circuit. Constant voltage ballasts to be ordered separately, both IP20 and IP67 are available and suitable for outdoor installation. DALI 120W 24V dimming interface available (code no. MWP3) or DALI/DMX/1-10V 12÷48Vdc 4-channel dimming interface available with 6A per channel, (code no. 9639) suitable for both RGB Led and white Led versions. The ballast and led strip are connected via cables with IP68 female connectors (L=115-1550-3050-5050mm) or IP68 male connectors (L=115-1500mm).

**Notes**

Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of  $\pm 4$ mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	161.0	MacAdam Step:	3
W system:	2.3	Life Time LED 1:	69,000h - L70 - B10 (Ta 25C)
Im source:	161	Life Time LED 2:	69,000h - L70 - B10 (Ta 40C)
W source:	2.3	Voltage [Vin]:	24
Luminous efficiency (Im/W, real value):	70.0	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	26.44	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	100	Number of optical assemblies:	1
Beam angle [°]:	129° / 111°	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI:	80	LED current [mA]:	0.014
Colour temperature [K]:	2900	Control:	PWM