

Last information update: April 2025

**Product configuration: E593**

E593: Side-Bend 10mm version - Warm white Led - 24Vdc - L=4004mm

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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=4004mm. 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 10mm SIDE-BEND versions. The technical characteristics of the luminaires comply with EN 60598-1 standards and details.

**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=1790-1998mm) 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.

**Colour**  
White (01)

**Weight (Kg)**  
0.76

**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 $\pm$ 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:   | 1751.4      | MacAdam Step:                         | 3                            |
| W system:  | 26.8        | Life Time LED 1:                      | 69,000h - L70 - B10 (Ta 25C) |
| Im source:   | 1751.4      | Life Time LED 2:                      | 69,000h - L70 - B10 (Ta 40C) |
| W source:  | 26.8        | Voltage [Vin]:                        | 24                           |
| Luminous efficiency (Im/W, real value):            | 65.35       | 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]: | 317.35      | ZVEI Code:                            | LED                          |
| Light Output Ratio (L.O.R.) [%]:                   | 100         | Number of optical assemblies:         | 1                            |
| Beam angle [°]:                                    | 140° / 109° | Intervallo temperatura ambiente:      | from -30°C to 45°C.          |
| CRI:   | 80          | LED current [mA]:                     | 0.014                        |
| Colour temperature [K]:                            | 2900        | Control:                              | PWM                          |