

Last information update: February 2025

Product configuration: EA13

EA13: Side-Bend 10mm version - Warm white Led - 24Vdc - L=504mm

**Product code**

EA13: Side-Bend 10mm version - Warm white Led - 24Vdc - L=504mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=504mm. 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 low aluminium profiles with a double slot (L=500) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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)

0.09

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).

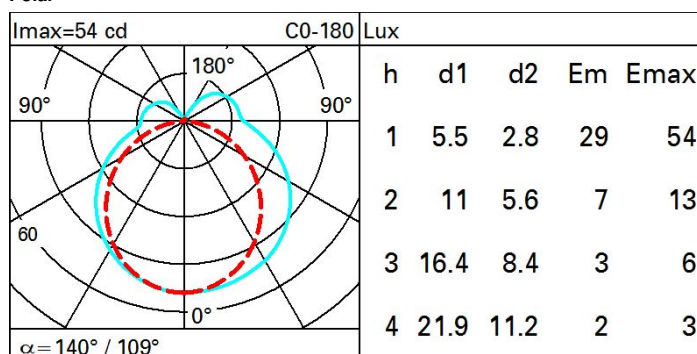
Notes

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 ± 4 mm compared to the nominal length.

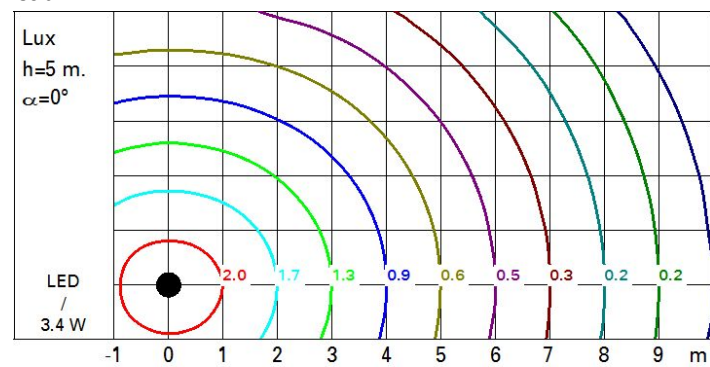
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	225	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	3.4	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	66.3	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	41	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallio temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar

Isolux



Product configuration: E578

Product code

Technical description

Installation

Colour

Weight (Kg)

0.09

Mounting

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 \times 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 +/- 4mm compared to the nominal length.

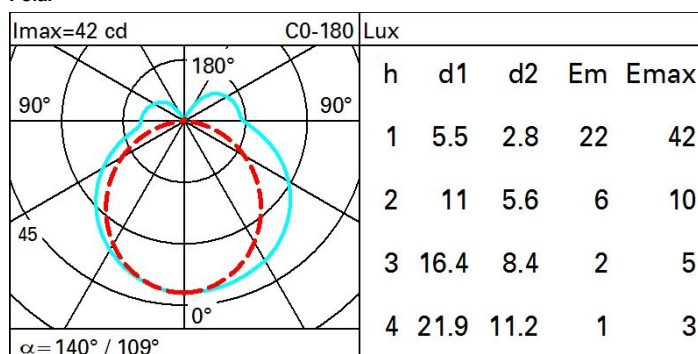
Complies with EN60598-1 and pertinent regulations



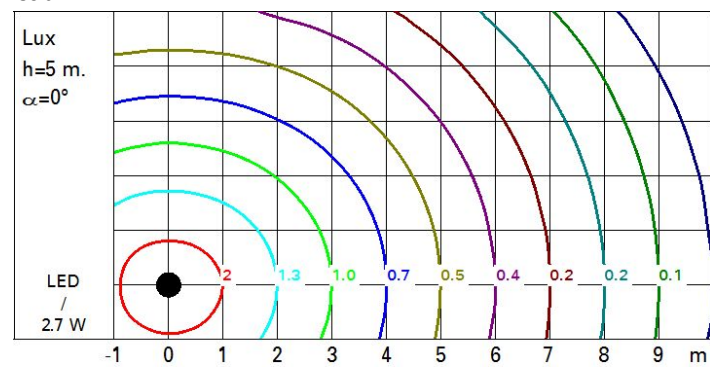
Technical data

Im system:	175	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	2.7	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	64.9	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	32	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	2900	Control:	PWM
MacAdam Step:	3		

Polar

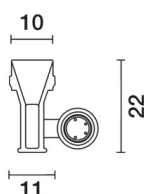


Isolux



Product configuration: E604

E604: Side-Bend 10mm version - Neutral white Led - 24Vdc - L=654mm



Product code

E604: Side-Bend 10mm version - Neutral white Led - 24Vdc - L=654mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – on a 24Vdc flexible white circuit, length L=654mm. 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 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.

Colour
White (01)

Weight (Kg)
0.19

Mounting

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 +/- 4mm compared to the nominal length.

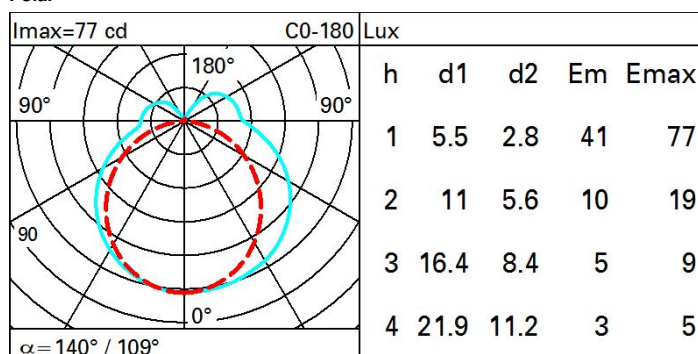
Complies with EN60598-1 and pertinent regulations



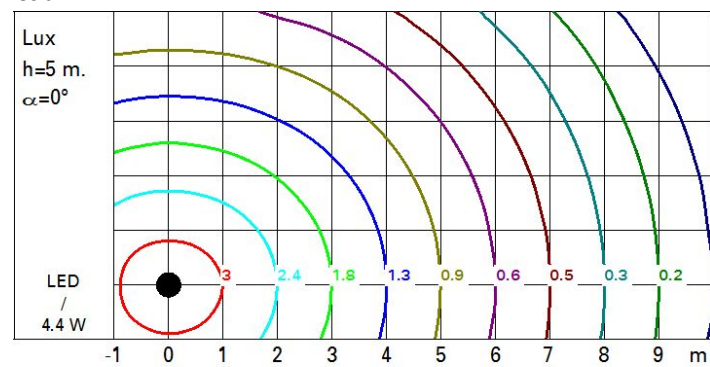
Technical data

Im system:	320	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	4.4	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	72.8	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	58	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	3700	Control:	PWM
MacAdam Step:	3		

Polar

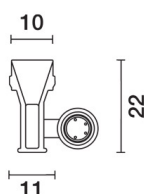


Isolux



Product configuration: E616

E616: Side-Bend 10mm version - Neutral white Led - 24Vdc - L=7004mm



Product code

E616: Side-Bend 10mm version - Neutral white Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – on a 24Vdc flexible white circuit, length L=7004mm. 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=998-1790-1998mm) that are used to secure the linear UnderScore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 316 stainless steel low clips (L=40mm) ideal for curved sections are available.

Colour	Weight (Kg)
White (01)	1.33

Mounting

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 +/- 4mm compared to the nominal length.

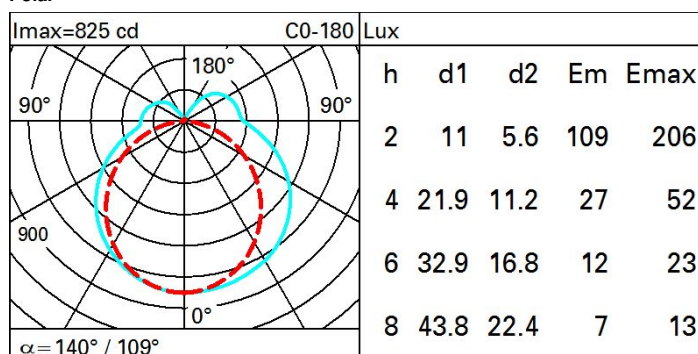
Complies with EN60598-1 and pertinent regulations



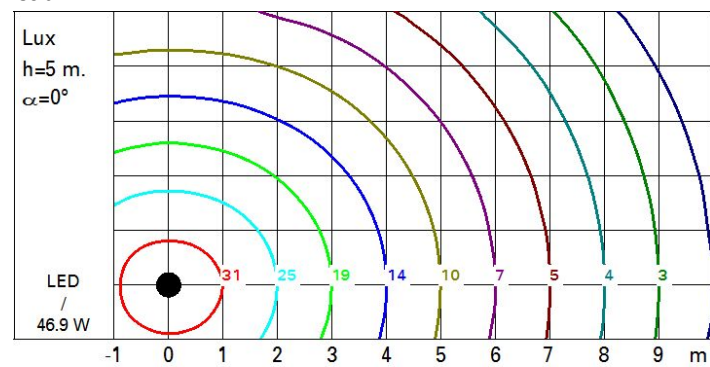
Technical data

Im system:	3448	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	46.9	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	73.5	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	625	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	3700	Control:	PWM
MacAdam Step:	3		

Polar



Isolux



Last information update: February 2025

Product configuration: E617

E617: Side-Bend 10mm version - Cool white Led - 24Vdc - L=254mm

**Product code**

E617: Side-Bend 10mm version - Cool white Led - 24Vdc - L=254mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – on a 24Vdc flexible white circuit, length L=254mm. 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 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 low aluminium profiles with a double slot (L=250) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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)

0.07

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 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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

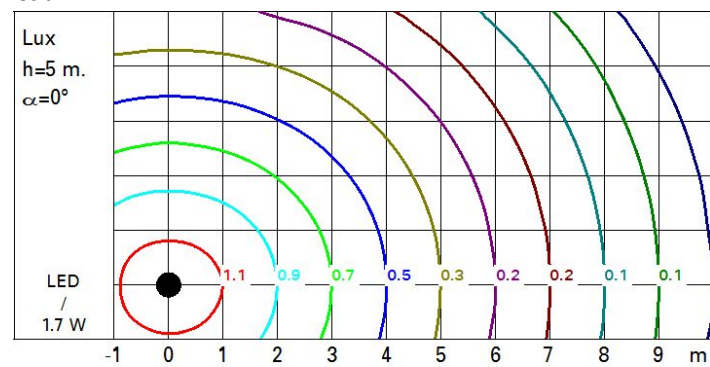
**Technical data**

Im system:	118	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	1.7	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, 69.1 real value):		Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	21	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallio temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	4600	Control:	PWM
MacAdam Step:	3		

Polar

Imax=28 cd		C0-180		Lux	
h	d1	d2	Em	Emax	
90°	1	5.5	2.8	15	28
30°	2	11	5.6	4	7
0°	3	16.4	8.4	2	3
$\alpha = 140^\circ / 109^\circ$	4	21.9	11.2	0.9	2

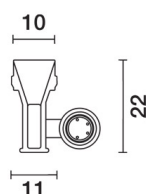
Isolux



Last information update: February 2025

Product configuration: E637

E637: Side-Bend 10mm version - Cool white Led - 24Vdc - L=7004mm

**Product code**

E637: Side-Bend 10mm version - Cool white Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – on a 24Vdc flexible white circuit, length L=7004mm. 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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 316 stainless steel low clips (L=40mm) ideal for curved sections are available.

Colour
White (01)

Weight (Kg)
1.33

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations



IK10

IP68

**Technical data**

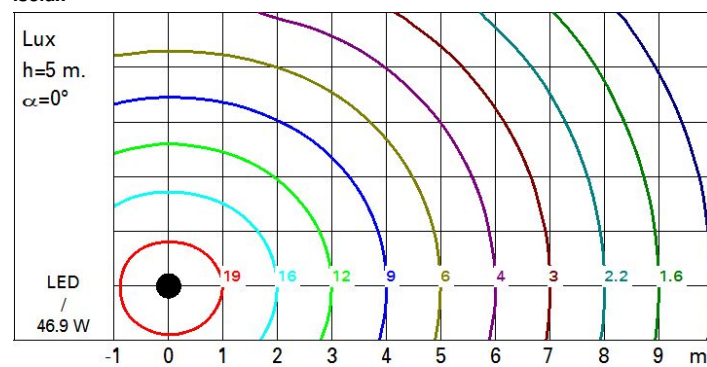
Im system:	3448	Colour temperature [K]:	3700
W system:	46.9	MacAdam Step:	3
Im source:	-	Lamp code:	LED
W source:	-	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	73.5	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	625	Intervallo temperatura ambiente:	from -30°C to 45°C.
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	14
CRI (minimum):	80	Control:	PWM

Polar

Imax=503 cd		C0-180		Lux	
h	d1	d2	Em	Emax	
2	11	5.6	67	126	
4	21.9	11.2	17	31	
6	32.9	16.8	7	14	
8	43.8	22.4	4	8	

 $\alpha = 140^\circ / 109^\circ$

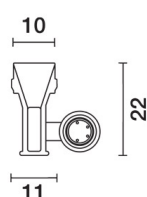
Isolux



Last information update: February 2025

Product configuration: E647

E647: Side-Bend 10mm version Led - 24Vdc - L=704mm

**Product code**

E647: Side-Bend 10mm version Led - 24Vdc - L=704mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGB Led – on a 24Vdc flexible white circuit, length L=704mm. 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 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.

Colour

White (01)

Weight (Kg)

0.19

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/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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

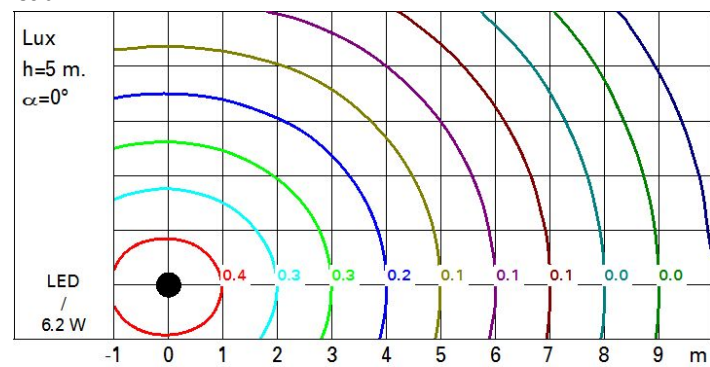
**Technical data**

Im system:	47	Life Time LED 2:	35,000h - L70 - B20 (Ta 40°C)
W system:	6.2	Voltage [Vin]:	24
Im source:	46.9	Lamp code:	LED
W source:	6.2	Number of lamps for optical 1 assembly:	
Luminous efficiency (Im/W, real value):	7.6	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	8	Intervallo temperatura ambiente:	from -30°C to 45°C.
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	5
Colour temperature [K]:	RGB	Control:	PWM
Life Time LED 1:	65,000h - L70 - B20 (Ta 25°C)		

Polar

Imax=11 cd		C25-205		Lux	
h	d1	d2	Em	Emax	
1	5.8	2.9	6	11	
2	11.6	5.7	1	3	
3	17.4	8.6	0.6	1	
4	23.2	11.4	0.4	0.7	

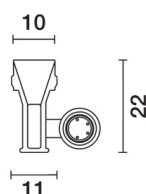
Isolux



Last information update: February 2025

Product configuration: E638

E638: Side-Bend 10mm version Led - 24Vdc - L=254mm

**Product code**

E638: Side-Bend 10mm version Led - 24Vdc - L=254mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGB Led – on a 24Vdc flexible white circuit, length L=254mm. 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 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 low aluminium profiles with a double slot (L=250) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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)

0.07

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/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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

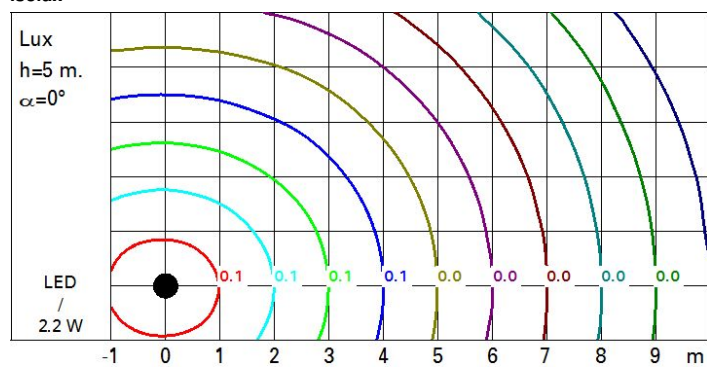
Im system:	17	Life Time LED 2:	35,000h - L70 - B20 (Ta 40°C)
W system:	2.2	Voltage [Vin]:	24
Im source:	16.8	Lamp code:	LED
W source:	2.2	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	7.6	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	3	Intervallo temperatura ambiente:	from -30°C to 45°C.
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	5
Colour temperature [K]:	RGB	Control:	PWM
Life Time LED 1:	65,000h - L70 - B20 (Ta 25°C)		

Polar

Imax=4 cd		C25-205		Lux	
h	d1	d2	Em	Emax	
1	5.8	2.9	2	4	
2	11.6	5.7	0.5	1.0	
3	17.4	8.6	0.2	0.4	
4	23.2	11.4	0.1	0.2	

$\alpha = 142^\circ / 110^\circ$

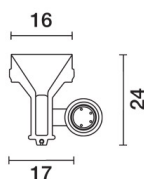
Isolux



Product configuration: EA29

Product code

EA29: Side-Bend 16mm version - Warm white Led - 24Vdc - L=254mm



Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=254mm. 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 low aluminium profiles with a double slot (L=250) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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 or AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

Colour
White (01)

Weight (Kg)	0.07
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Mounting

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 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 +/- 4mm compared to the nominal length.

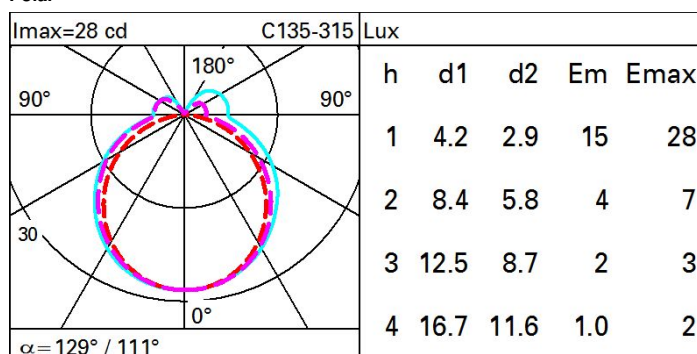
Complies with EN60598-1 and pertinent regulations



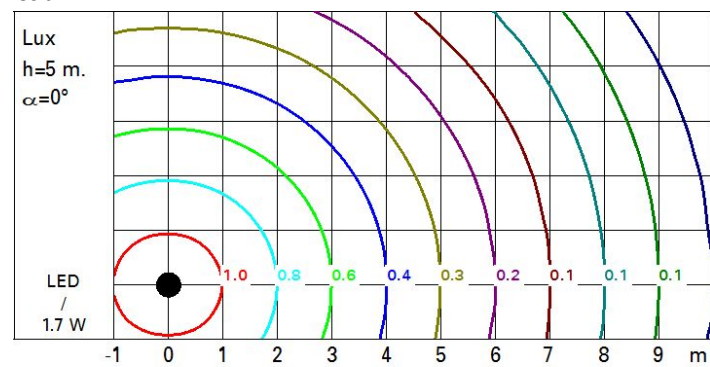
Technical data

Im system:	109	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	1.7	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	64.1	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	18	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar



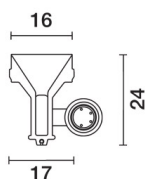
Isolux



Last information update: February 2025

Product configuration: EA49

EA49: Side-Bend 16mm version - Warm white Led - 24Vdc - L=7004mm

**Product code**

EA49: Side-Bend 16mm version - Warm white Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=7004mm. 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 technical characteristics of the luminaires comply with EN 60598-1 standards and details.

Installation

Surface-mounting (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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 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)

1.82

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

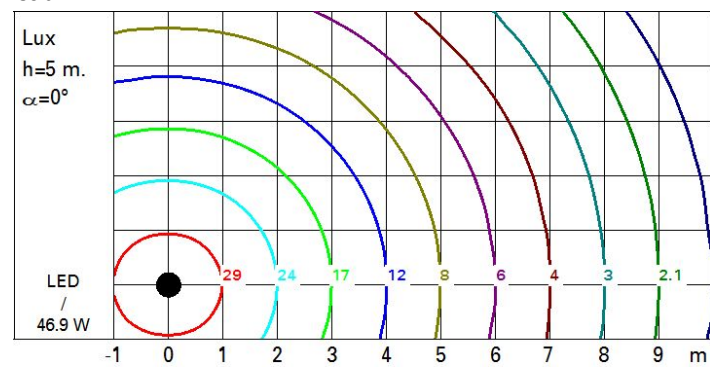
Im system:	3065	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	46.9	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	65.4	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	503	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar

Imax=793 cd		C135-315		Lux	
h	d1	d2	Em	Emax	
2	8.4	5.8	109	198	
4	16.7	11.6	27	50	
6	25.1	17.5	12	22	
8	33.5	23.3	7	12	

$\alpha = 129^\circ / 111^\circ$

Isolux



Product configuration: E491

Product code

Technical description

Installation

Colour

White (01)

Weight (Kg)

0.07

Mounting

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 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 +/- 4mm compared to the nominal length.

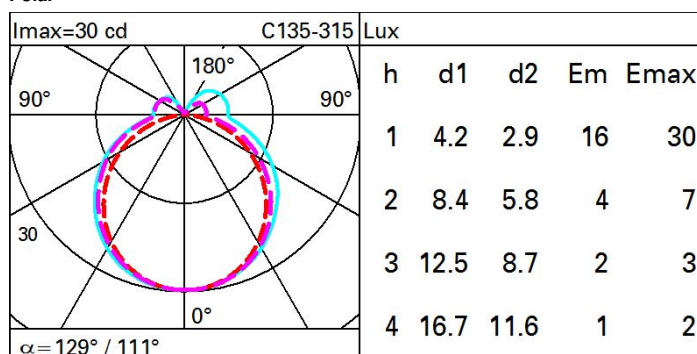
Complies with EN60598-1 and pertinent regulations



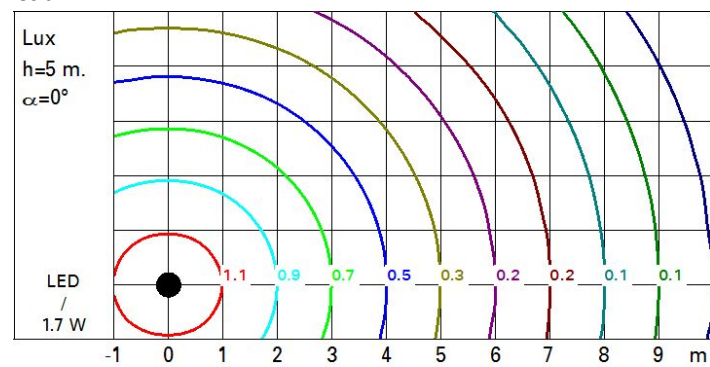
Technical data

Im system:	115	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	1.7	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	67.6	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	19	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	2900	Control:	PWM
MacAdam Step:	3		

Polar



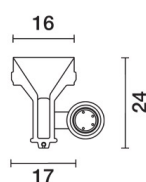
Isolux



Last information update: February 2025

Product configuration: E513

E513: Side-Bend 16mm version - Neutral white Led - 24Vdc - L=304mm

**Product code**

E513: Side-Bend 16mm version - Neutral white Led - 24Vdc - L=304mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – on a 24Vdc flexible white circuit, length L=304mm. 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

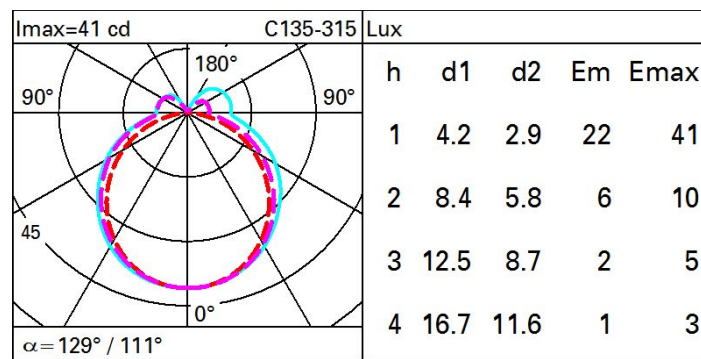
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

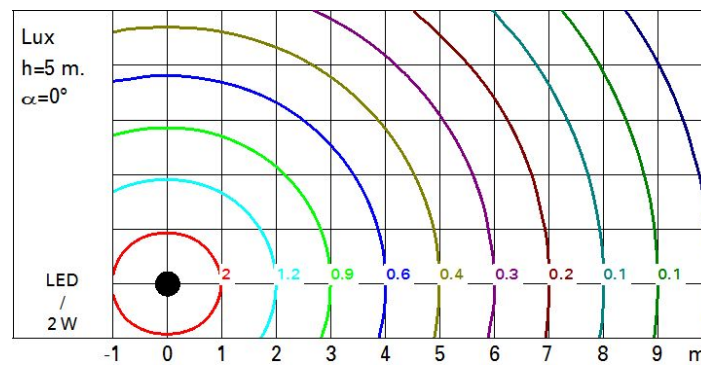
**Technical data**

Im system:	158	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	2	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	79	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	26	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	3700	Control:	PWM
MacAdam Step:	3		

Polar



Isolux



Last information update: February 2025

Product configuration: E275

E275: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 7004mm

**Product code**

E275: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGBW (PIXEL) LED (4000K - CRI 80 white LEDs) – on a 24Vdc flexible white circuit, length L=7004mm. The LED circuit is completely IP68 encapsulated with a high-performance polymer sheath that has a white (outside) and milky finish (emission surface): the material allows the device to be installed and used even at extreme temperatures: -30°C +45°C. Underscore InOut TOP-BEND can be used to create straight lines on flat and curved 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 a male connector (input cable) and a female connector (output cable) for a single direction IP68 connection, fitted with an anti-detachment locknut. The product is also supplied with stainless steel wires 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 250mm for 16mm TOP-BEND versions.

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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 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)

2.1

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. Gateway Art-Nets/SPIs are available for checking and operating the strips. The ballasts/Gateway Art-Nets/SPIs and LED strips are connected via cables with IP68 female connectors (L=115-1500-3000-5000mm) or IP68 male connectors (L=115-1500mm) to be ordered separately.

Notes

Product complete with LED lamp. Ten standard lengths are available (337-504-671-837-1004-2004-3004-4004-5004-7004mm). The Underscore InOut PIXEL can be connected in a 24Vdc sequence up to a maximum length of L=7004mm. Depending on the type of ballast Underscore connections can be made in parallel, each with a max length of L=7004mm, that can also be installed in a continuous line (see instruction sheet). For the sequenced SPI check connection refer to the instruction sheet. IP68 rating on both the product and the continuous line system that uses IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Life Time only LED White on: 100,000h - L90 - B50 (Ta 25°C) Life Time n.1 Color LED on: 34,000h - L70 - B50 (Ta 25°C) Life Time n.3 Color LEDs on: 19,000h - L70 - B50 (Ta 25°C) Life Time only LED White on: 46,000h - L80 - B50 (Ta 40°C) Life Time n.1 Color LED on: 19,000h - L70 - B50 (Ta 40°C) Life Time n.3 Color LEDs on: 11,000h - L70 - B50 (Ta 40°C)

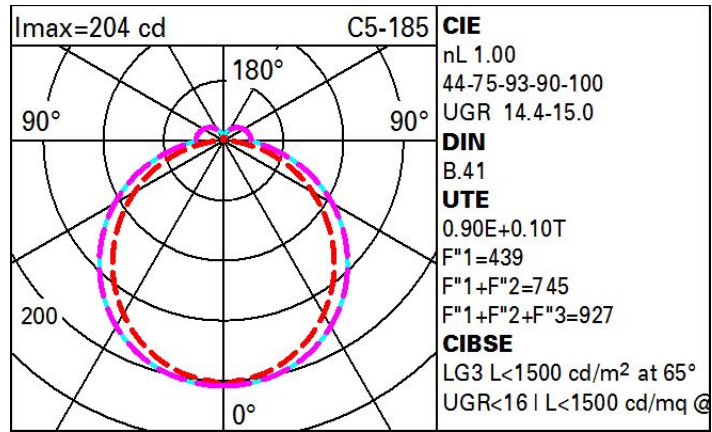
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	704	Voltage [Vin]:	24
W system:	57.6	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	12.2	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
Total light flux at or above an angle of 90° [Lm]:	73	LED current [mA]:	4
Light Output Ratio (L.O.R.) [%]:	100	Control:	SPI
Colour temperature [K]:	RGBW		

* Preliminary data

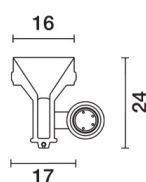
Polar



Last information update: February 2025

Product configuration: E532

E532: Side-Bend 16mm version - Neutral white Led - 24Vdc - L=7004mm

**Product code**

E532: Side-Bend 16mm version - Neutral white Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – on a 24Vdc flexible white circuit, length L=7004mm. 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 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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 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)

1.82

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

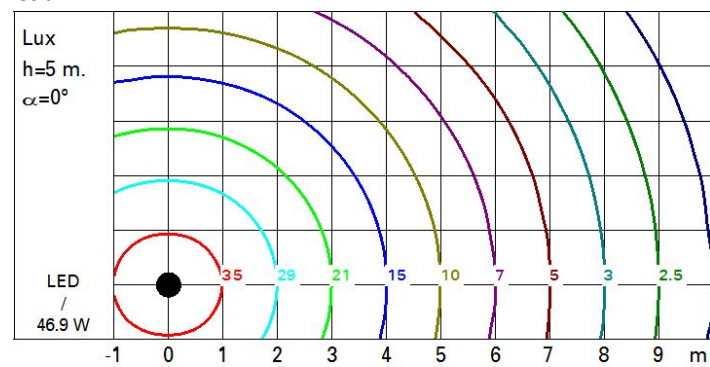
Im system:	3690	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	46.9	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	78.7	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	606	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	3700	Control:	PWM
MacAdam Step:	3		

Polar

Imax=954 cd		C135-315		Lux	
h	d1	d2	Em	Emax	
2	8.4	5.8	131	238	
4	16.7	11.6	33	60	
6	25.1	17.5	15	26	
8	33.5	23.3	8	15	

$\alpha = 129^\circ / 111^\circ$

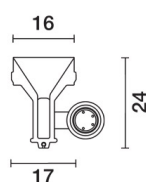
Isolux



Last information update: February 2025

Product configuration: E534

E534: Side-Bend 16mm version - Cool white Led - 24Vdc - L=304mm

**Product code**

E534: Side-Bend 16mm version - Cool white Led - 24Vdc - L=304mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – on a 24Vdc flexible white circuit, length L=304mm. 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

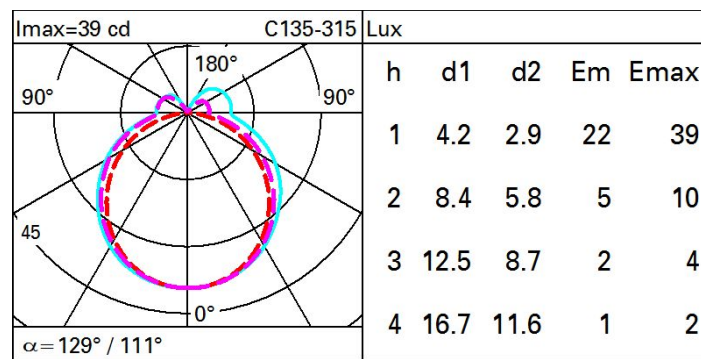
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

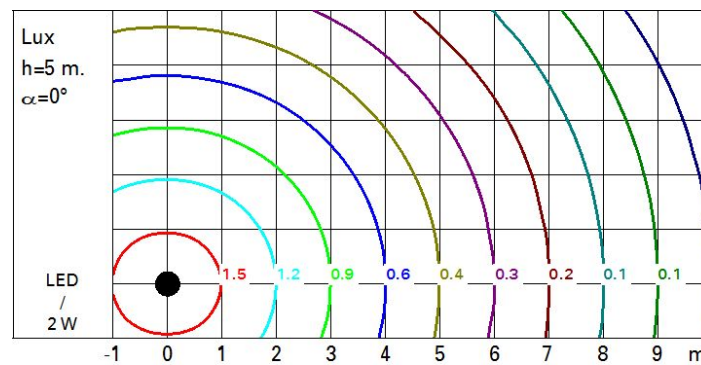
**Technical data**

Im system:	152	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	2	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	76	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	25	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	4600	Control:	PWM
MacAdam Step:	3		

Polar



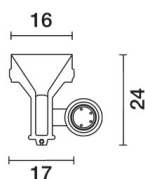
Isolux



Last information update: February 2025

Product configuration: E553

E553: Side-Bend 16mm version - Cool white Led - 24Vdc - L=7004mm

**Product code**

E553: Side-Bend 16mm version - Cool white Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – on a 24Vdc flexible white circuit, length L=7004mm. 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 technical characteristics of the luminaires comply with EN 60598-1 standards and details.

Installation

Surface-mounting (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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 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)

1.82

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

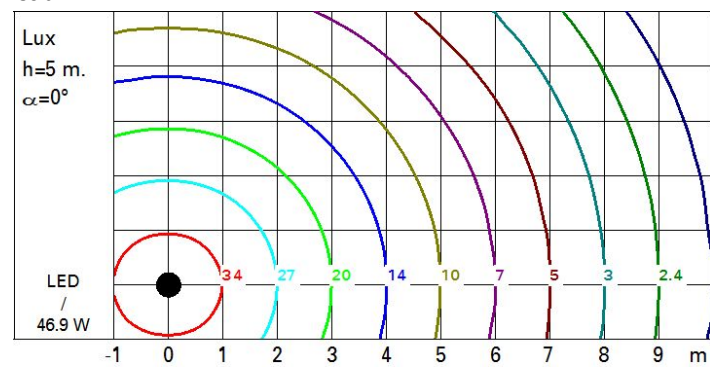
Im system:	3539	Life Time LED 1:	69,000h - L70 - B10 (Ta 25°C)
W system:	46.9	Life Time LED 2:	69,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	75.5	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	581	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	14
Colour temperature [K]:	4600	Control:	PWM
MacAdam Step:	3		

Polar

Imax=915 cd		C135-315		Lux	
h	d1	d2	Em	Emax	
2	8.4	5.8	125	229	
4	16.7	11.6	31	57	
6	25.1	17.5	14	25	
8	33.5	23.3	8	14	

$\alpha = 129^\circ / 111^\circ$

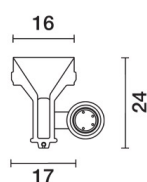
Isolux



Last information update: February 2025

Product configuration: EA71

EA71: Side-Bend 16mm version - Led - 24Vdc - L=254mm

**Product code**

EA71: Side-Bend 16mm version - Led - 24Vdc - L=254mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with Tunable White 2500÷4600K Led – on a 24Vdc flexible white circuit, length L=254mm. 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 low aluminium profiles with a double slot (L=250) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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 or AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

Colour

White (01)

Weight (Kg)

0.07

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/DMX/1-10V 12-48Vdc 4-channel dimming interface available with 6A per channel, (code no. 9639) suitable for RGB, Tunable White and monochromatic 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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

**Technical data**

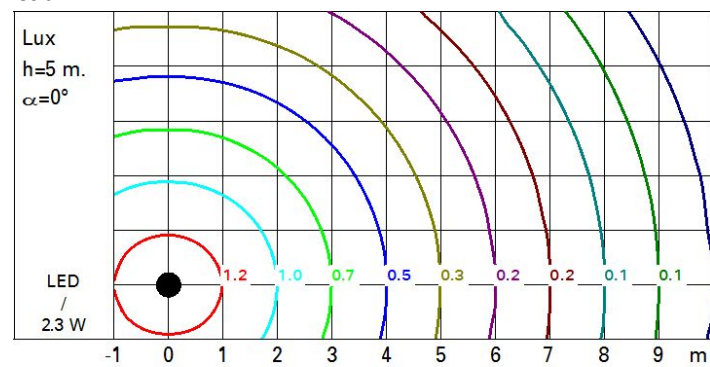
Im system:	120	Life Time LED 1:	70,000h - L70 - B10 (Ta 25°C)
W system:	2.3	Life Time LED 2:	70,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, 52.2 real value):		Number of lamps for optical 1 assembly:	
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	15	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	Tunable white 2700 - 5000	Control:	PWM

Polar

Imax=33 cd		C5-185		Lux	
h	d1	d2	Em	Emax	
1	3.7	2.9	18	33	
2	7.4	5.7	5	8	
3	11.2	8.6	2	4	
4	14.9	11.4	1	2	

$\alpha = 124^\circ / 110^\circ$

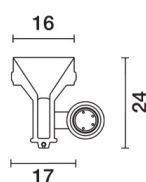
Isolux



Last information update: February 2025

Product configuration: EA91

EA91: Side-Bend 16mm version - Led - 24Vdc - L=7004mm

**Product code**

EA91: Side-Bend 16mm version - Led - 24Vdc - L=7004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with Tunable White 2500÷4600K Led – on a 24Vdc flexible white circuit, length L=7004mm. 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 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=998-1790-1998mm) that are used to secure the linear Underscore InOut, with its side exit for the cable with connector. Aluminium low clips (L=40mm) and 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)

1.82

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/DMX/1-10V 12÷48Vdc 4-channel dimming interface available with 6A per channel, (code no. 9639) suitable for RGB, Tunable White and monochromatic 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).

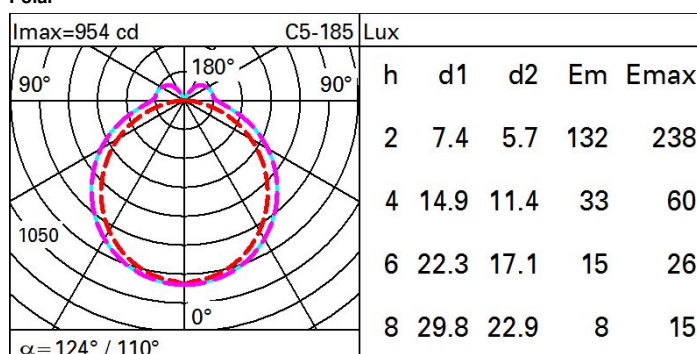
Notes

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 ± 4 mm compared to the nominal length.

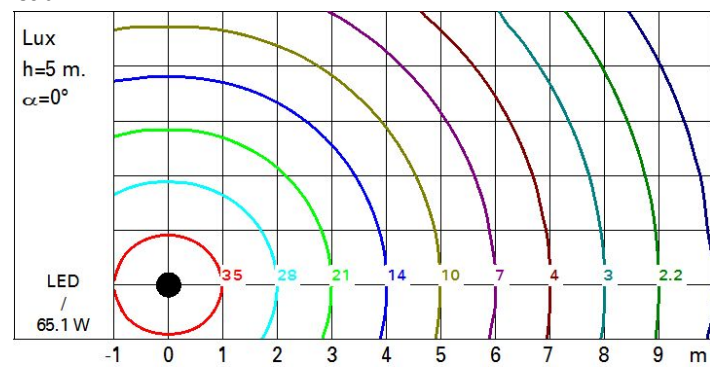
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	3425	Life Time LED 1:	70,000h - L70 - B10 (Ta 25°C)
W system:	65.1	Life Time LED 2:	70,000h - L70 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	52.6	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	441	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	Tunable white 2700 - 5000	Control:	PWM

Polar

Isolux



Underscore InOut

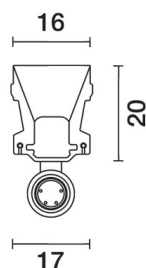
Design iGuzzini

iGuzzini

Last information update: February 2025

Product configuration: EB86

EB86: Top-Bend 16mm version - Cool white Led - High output - 24Vdc - L=754mm



Product code

EB86: Top-Bend 16mm version - Cool white Led - High output - 24Vdc - L=754mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – High output - on a 24Vdc flexible white circuit, length L=754mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations



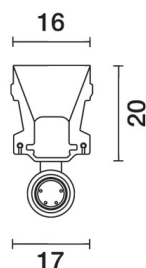
Technical data

Im system:	680.0	MacAdam Step:	3
W system:	8.1	Life Time LED 1:	100,000h - L80 - B10 (Ta 25C)
Im source:	680	Life Time LED 2:	100,000h - L90 - B10 (Ta 40C)
W source:	8.1	Voltage [Vin]:	24
Luminous efficiency (Im/W, real value):	83.95	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]:	55.35	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	100	Number of optical assemblies:	1
Beam angle [°]:	122° / 112°	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI:	80	LED current [mA]:	0.025
Colour temperature [K]:	4700	Control:	PWM

Last information update: February 2025

Product configuration: EB67

EB67: Top-Bend 16mm version - Neutral white Led - High output - 24Vdc - L=854mm

**Product code**

EB67: Top-Bend 16mm version - Neutral white Led - High output - 24Vdc - L=854mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – High output - on a 24Vdc flexible white circuit, length L=854mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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

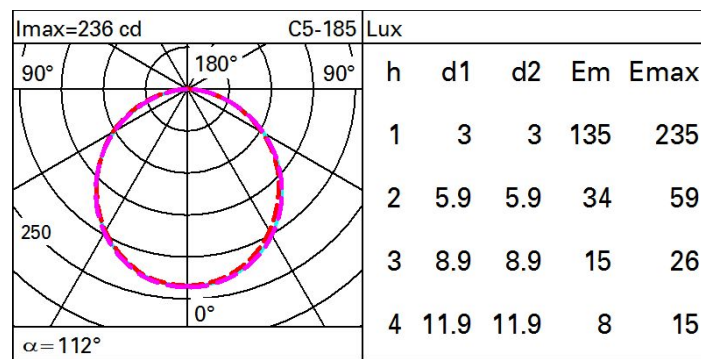
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

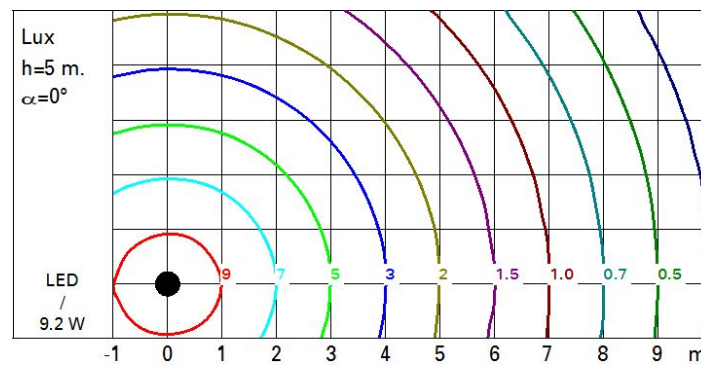
**Technical data**

Im system:	678	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	9.2	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	73.7	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	10	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	88	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	25
Colour temperature [K]:	3800	Control:	PWM
MacAdam Step:	3		

Polar



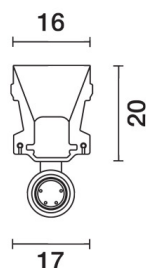
Isolux



Last information update: February 2025

Product configuration: EB42

EB42: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=654mm

**Product code**

EB42: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=654mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – High output - on a 24Vdc flexible white circuit, length L=654mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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

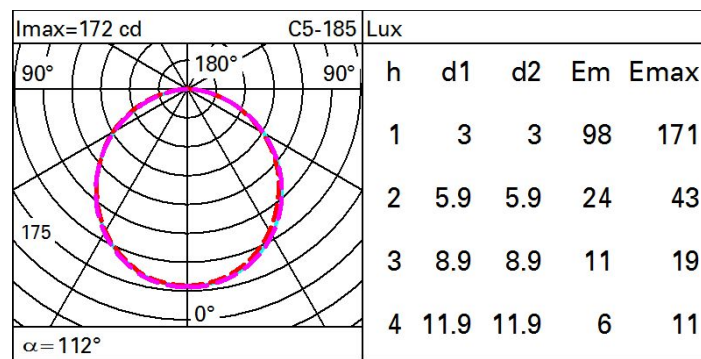
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

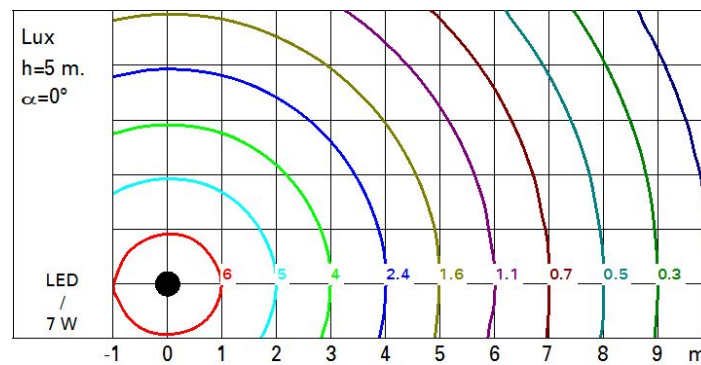
**Technical data**

Im system:	493	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	7	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	70.4	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	7	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	88	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	25
Colour temperature [K]:	2900	Control:	PWM
MacAdam Step:	3		

Polar



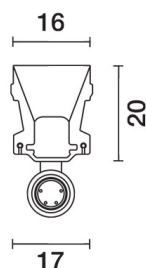
Isolux



Last information update: February 2025

Product configuration: EB23

EB23: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=754mm

**Product code**

EB23: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=754mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds - High output – on a 24Vdc flexible white circuit, length L=754mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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

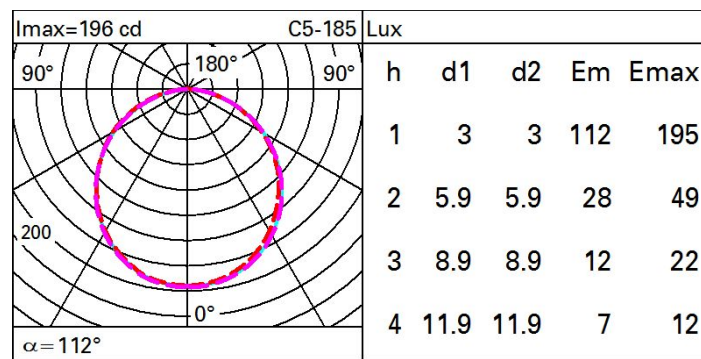
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

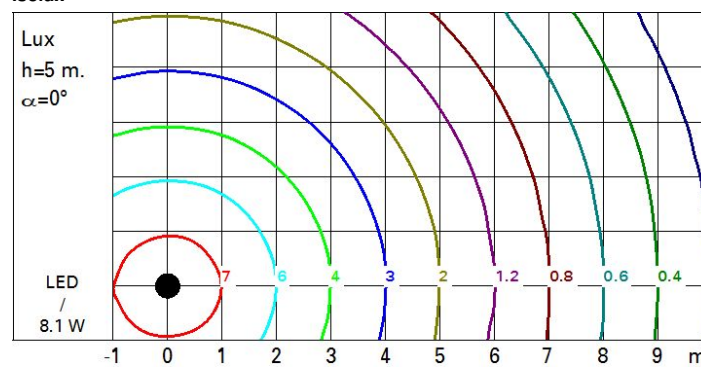
**Technical data**

Im system:	563	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	8.1	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	69.5	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	8	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	88	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	25
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar



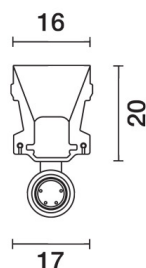
Isolux



Last information update: February 2025

Product configuration: EB03

EB03: Top-Bend 16mm version - Led - 24Vdc - L=804mm

**Product code**

EB03: Top-Bend 16mm version - Led - 24Vdc - L=804mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with Tunable White 2500÷4500K Led – on a 24Vdc flexible white circuit, length L=804mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-BEND versions.

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)

0.3

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/DMX/1-10V 12÷48Vdc 4-channel dimming interface available with 6A per channel, (code no. 9639) suitable for RGB, Tunable White, 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).

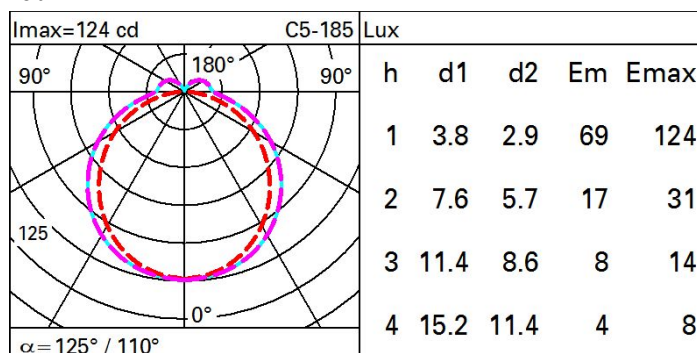
Notes

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 ± 4 mm compared to the nominal length.

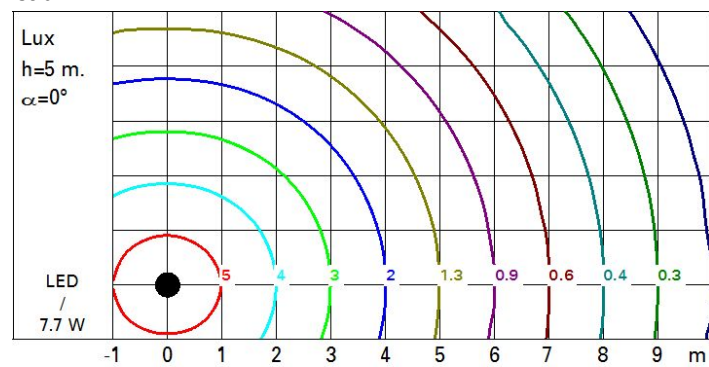
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	440	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	7.7	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	57.1	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	47	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	Tunable white 2700 - 5000	Control:	PWM

Polar

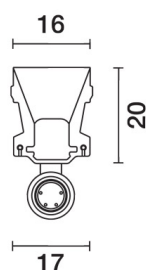
Isolux



Last information update: February 2025

Product configuration: E472

E472: Top-Bend 16mm version Led - 24Vdc - L=354mm

**Product code**

E472: Top-Bend 16mm version Led - 24Vdc - L=354mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGB Led – 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-BEND versions.

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/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

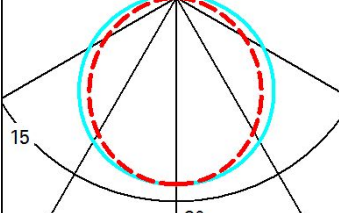
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

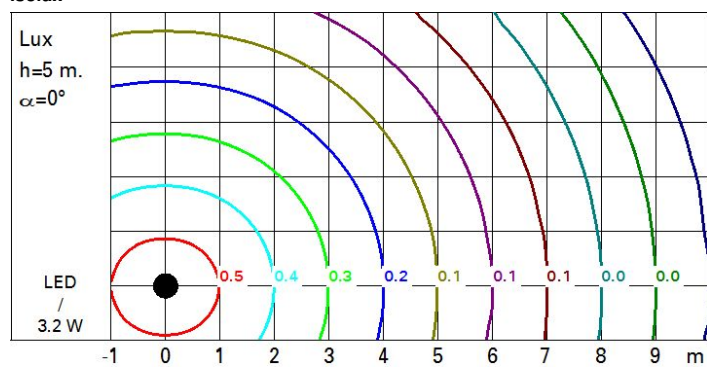
**Technical data**

Im system:	49	Voltage [Vin]:	24
W system:	3.2	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	15.3	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -30°C to 45°C.
Total light flux at or above an angle of 90° [Lm]:	6	LED current [mA]:	5
Light Output Ratio (L.O.R.) [%]:	100	Control:	PWM
Colour temperature [K]:	RGB		

Polar

Imax=14 cd			C0-180		Lux				
90°	180°	90°	h	d1	d2	Em	Emax		
			1	3.9	2.9	8	14		
			2	7.7	5.7	2	3		
			3	11.6	8.6	0.9	2		
			4	15.4	11.4	0.5	0.9		
α=125° / 110°									

Isolux



Underscore InOut

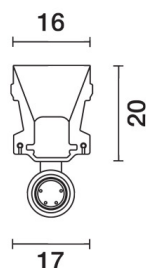
Design iGuzzini

iGuzzini

Last information update: February 2025

Product configuration: E453

E453: Top-Bend 16mm version - Cool white Led - 24Vdc - L=454mm



Product code

E453: Top-Bend 16mm version - Cool white Led - 24Vdc - L=454mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool white monochrome Leds – on a 24Vdc flexible white circuit, length L=454mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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 ± 4 mm compared to the nominal length.

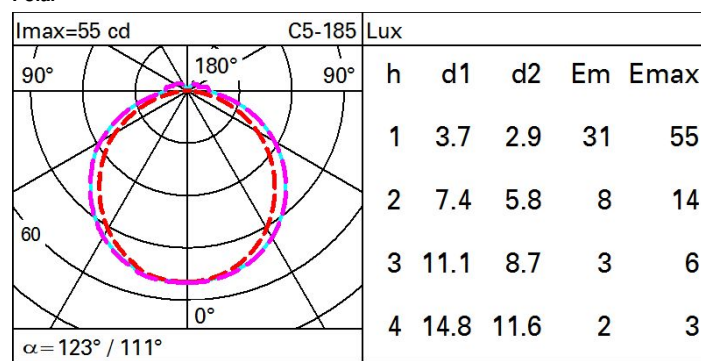
Complies with EN60598-1 and pertinent regulations



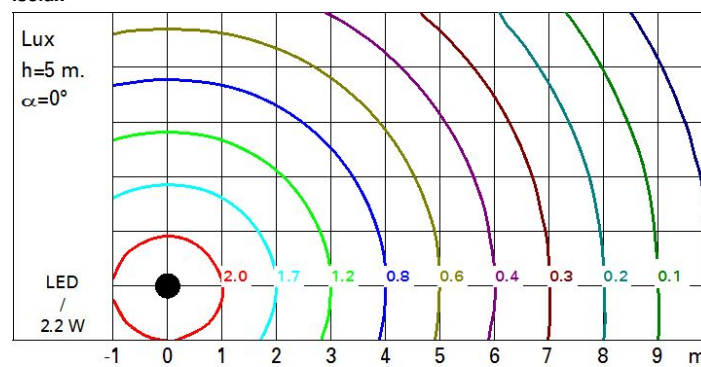
Technical data

Im system:	185	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	2.2	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	84.1	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	14	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	4700	Control:	PWM
MacAdam Step:	3		

Polar



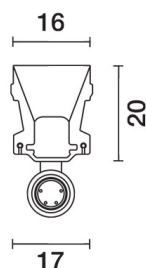
Isolux



Last information update: February 2025

Product configuration: E428

E428: Top-Bend 16mm version - Neutral white Led - 24Vdc - L=254mm

**Product code**

E428: Top-Bend 16mm version - Neutral white Led - 24Vdc - L=254mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with neutral white monochrome Leds – on a 24Vdc flexible white circuit, length L=254mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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 low aluminium profiles with a double slot (L=250) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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 or AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

Colour

White (01)

Weight (Kg)

0.07

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 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

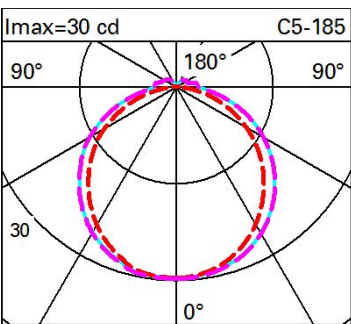
Underscore InOut can be powered in series up to a maximum length of L=7004mm. The product is not suitable for installation in swimming pools and fountains. The lengths indicated can have a tolerance of ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations

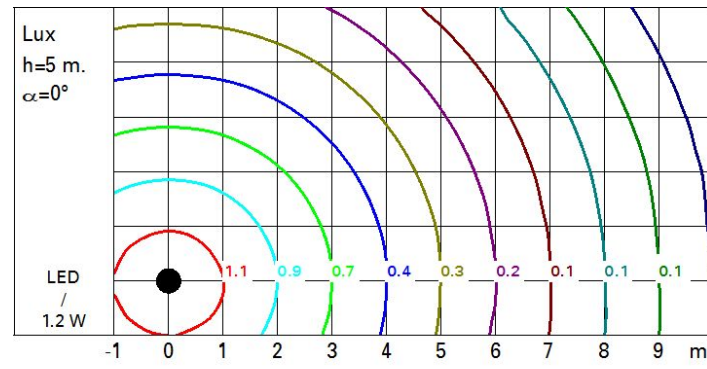
**Technical data**

Im system:	100	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	1.2	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, 83.3 real value):		Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	8	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	3800	Control:	PWM
MacAdam Step:	3		

Polar

Imax=30 cd		C5-185		Lux				
90°	180°	90°		h	d1	d2	Em	Emax
				1	3.7	2.9	17	30
				2	7.4	5.8	4	7
				3	11.1	8.7	2	3
				4	14.8	11.6	1	2
$\alpha = 123^\circ / 111^\circ$								

Isolux



Underscore InOut

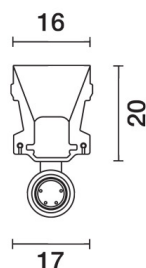
Design iGuzzini

iGuzzini

Last information update: February 2025

Product configuration: E416

E416: Top-Bend 16mm version - Warm white Led - 24Vdc - L=704mm



Product code

E416: Top-Bend 16mm version - Warm white Led - 24Vdc - L=704mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=704mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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 ± 4 mm compared to the nominal length.

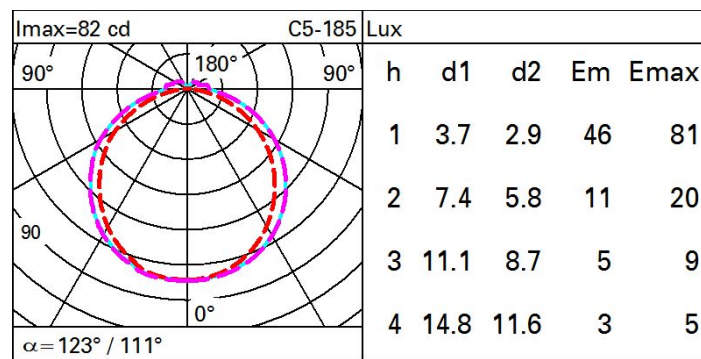
Complies with EN60598-1 and pertinent regulations



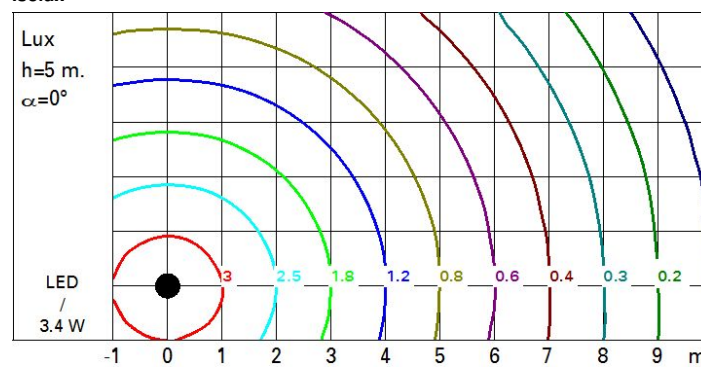
Technical data

Im system:	275	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	3.4	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	80.9	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	21	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI (minimum):	80	LED current [mA]:	10
Colour temperature [K]:	2900	Control:	PWM
MacAdam Step:	3		

Polar



Isolux



Underscore InOut

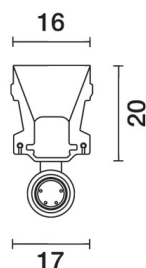
Design iGuzzini

iGuzzini

Last information update: February 2025

Product configuration: EA61

EA61: Top-Bend 16mm version - Warm white Led - 24Vdc - L=804mm



Product code

EA61: Top-Bend 16mm version - Warm white Led - 24Vdc - L=804mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=804mm. 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 TOP-BEND can be used to create straight lines on flat and curved 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 stainless steel wires 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 250mm for 16mm TOP-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)

0.3

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 ± 4 mm compared to the nominal length.

Complies with EN60598-1 and pertinent regulations



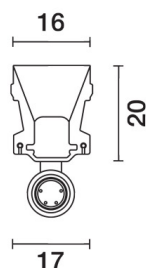
Technical data

Im system:	305.0	MacAdam Step:	3
W system:	3.9	Life Time LED 1:	100,000h - L80 - B10 (Ta 25C)
Im source:	305	Life Time LED 2:	100,000h - L80 - B10 (Ta 40C)
W source:	3.9	Voltage [Vin]:	24
Luminous efficiency (Im/W, real value):	78.21	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]:	23.64	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	100	Number of optical assemblies:	1
Beam angle [°]:	123° / 111°	Intervallo temperatura ambiente:	from -30°C to 45°C.
CRI:	80	LED current [mA]:	0.01
Colour temperature [K]:	2600	Control:	PWM

Last information update: February 2025

Product configuration: E259

E259: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm

**Product code**

E259: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 337mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGBW (PIXEL) LED (4000K - CRI 80 white LEDs) – on a 24Vdc flexible white circuit, length L=337mm. The LED strip can be controlled via a SPI protocol with addressing every 83.3mm (pixel step). The LED circuit is completely IP68 encapsulated with a high-performance polymer sheath that has a white (outside) and milky finish (emission surface): the material allows the device to be installed and used even at extreme temperatures: -30°C +45°C. Underscore InOut TOP-BEND can be used to create straight lines on flat and curved 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 a male connector (input cable) and a female connector (output cable) for a single direction IP68 connection, fitted with an anti-detachment locknut. The product is also supplied with stainless steel wires 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 250mm for 16mm TOP-BEND versions.

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. Gateway Art-Nets/SPIs are available for checking and operating the strips. The ballast/Gateway Art-Net/SPI and LED strips are connected via cables with IP68 female connectors (L=115-1500-3000-5000mm) or IP68 male connectors (L=115-1500mm) to be ordered separately.

Notes

Product complete with LED lamp. Ten standard lengths are available (337-504-671-837-1004-2004-3004-4004-5004-7004mm). The Underscore InOut PIXEL can be connected in a 24Vdc sequence up to a maximum length of L=7004mm. Depending on the type of ballast Underscore connections can be made in parallel, each with a max length of L=7004mm, that can also be installed in a continuous line (see instruction sheet). For the sequenced SPI check connection refer to the instruction sheet. IP68 rating on both the product and the continuous line system that uses IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Life Time only LED White on: 100,000h - L90 - B50 (Ta 25°C) Life Time n.1 Color LED on: 34,000h - L70 - B50 (Ta 25°C) Life Time n.3 Color LEDs on: 19,000h - L70 - B50 (Ta 25°C) Life Time only LED White on: 46,000h - L80 - B50 (Ta 40°C) Life Time n.1 Color LED on: 19,000h - L70 - B50 (Ta 40°C) Life Time n.3 Color LEDs on: 11,000h - L70 - B50 (Ta 40°C)

Complies with EN60598-1 and pertinent regulations



IK10

IP68

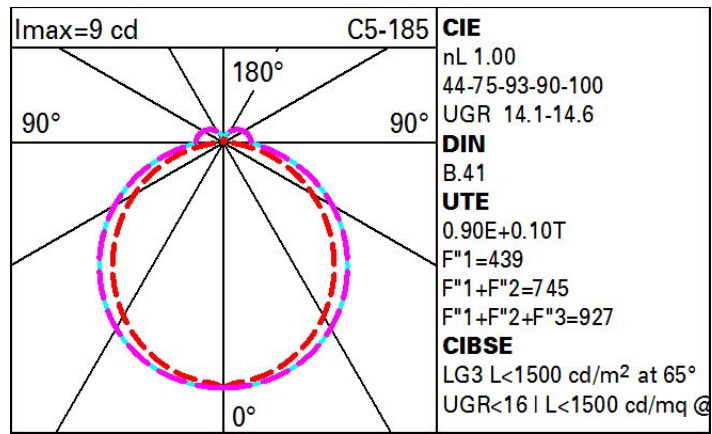
**Technical data**

Im system:	32
W system:	2.7
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	11.9
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	3
Light Output Ratio (L.O.R.) [%]:	100
Colour temperature [K]:	RGBW

Voltage [Vin]:	24
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
LED current [mA]:	4
Control:	SPI

* Preliminary data

Polar



Last information update: February 2025

Product configuration: E267

E267: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 504mm

**Product code**

E267: PIXEL version - Top-Bend 16mm - LED - 24Vdc - L= 504mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGBW (PIXEL) LED (4000K - CRI 80 white LEDs) – on a 24Vdc flexible white circuit, length L=504mm. The LED strip can be controlled via a SPI protocol with addressing every 83.3mm (pixel step). The LED circuit is completely IP68 encapsulated with a high-performance polymer sheath that has a white (outside) and milky finish (emission surface): the material allows the device to be installed and used even at extreme temperatures: -30°C +45°C. Underscore InOut TOP-BEND can be used to create straight lines on flat and curved 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 a male connector (input cable) and a female connector (output cable) for a single direction IP68 connection, fitted with an anti-detachment locknut. The product is also supplied with stainless steel wires 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 250mm for 16mm TOP-BEND versions.

Installation

Surface-mounted (ceiling and wall) using accessories to be ordered separately. The installation accessories available include low aluminium profiles with a double slot (L=500) that are used to secure the linear Underscore InOut, with a side exit for cables with connectors. 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 or AISI 316 stainless steel clips (L=40mm) that hide the cables with the connectors in the bottom part.

Colour

White (01)

Weight (Kg)

0.18

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. Gateway Art-Nets/SPIs are available for checking and operating the strips. The ballasts/Gateway Art-Nets/SPIs and LED strips are connected via cables with IP68 female connectors (L=115-1500-3000-5000mm) or IP68 male connectors (L=115-1500mm) to be ordered separately.

Notes

Product complete with LED lamp. Ten standard lengths are available (337-504-671-837-1004-2004-3004-4004-5004-7004mm). The Underscore InOut PIXEL can be connected in a 24Vdc sequence up to a maximum length of L=7004mm. Depending on the type of ballast Underscore connections can be made in parallel, each with a max length of L=7004mm, that can also be installed in a continuous line (see instruction sheet). For the sequenced SPI check connection refer to the instruction sheet. IP68 rating on both the product and the continuous line system that uses IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Life Time only LED White on: 100,000h - L90 - B50 (Ta 25°C) Life Time n.1 Color LED on: 34,000h - L70 - B50 (Ta 25°C) Life Time n.3 Color LEDs on: 19,000h - L70 - B50 (Ta 25°C) Life Time only LED White on: 46,000h - L80 - B50 (Ta 40°C) Life Time n.1 Color LED on: 19,000h - L70 - B50 (Ta 40°C) Life Time n.3 Color LEDs on: 11,000h - L70 - B50 (Ta 40°C)

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	52	Voltage [Vin]:	24
W system:	4.1	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	12.7	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
Total light flux at or above an angle of 90° [Lm]:	5	LED current [mA]:	4
Light Output Ratio (L.O.R.) [%]:	100	Control:	SPI
Colour temperature [K]:	RGBW		

* Preliminary data

Polar

