

Product configuration: EA55

EA55: Top-Bend 16mm version - Warm white Led - 24Vdc - L=504mm



Product code

EA55: Top-Bend 16mm 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 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=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)	0.15
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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 \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.

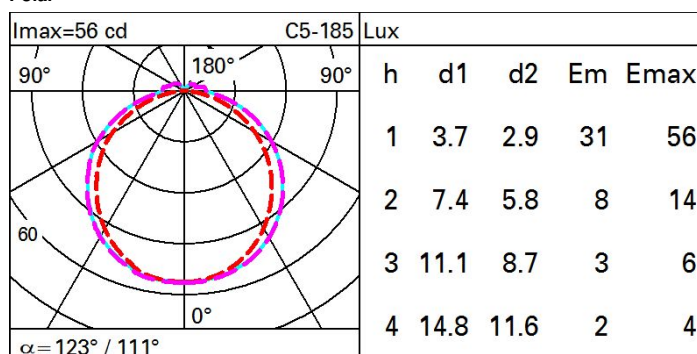
Complies with EN60598-1 and pertinent regulations



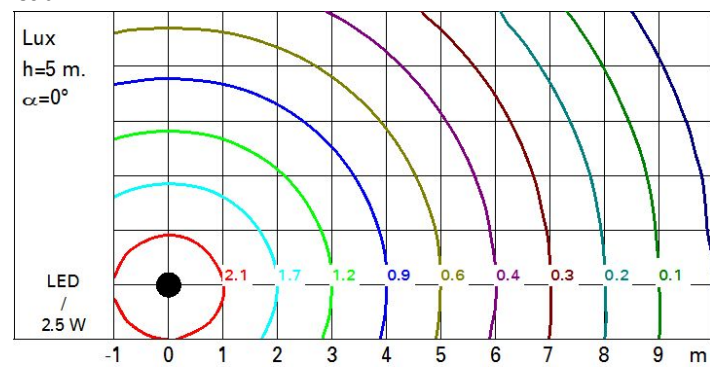
Technical data

Im system:	190	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	2.5	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/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]:	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]:	2600	Control:	PWM
MacAdam Step:	3		

Polar

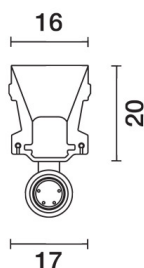


Isolux



Product configuration: E412

E412: Top-Bend 16mm version - Warm white Led - 24Vdc - L=504mm



Product code

E412: Top-Bend 16mm 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 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=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)	0.15
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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 \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.

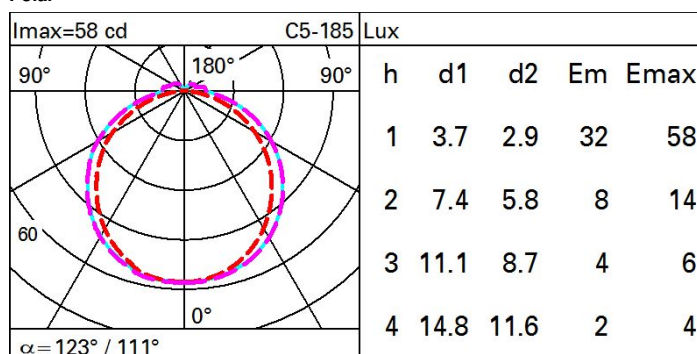
Complies with EN60598-1 and pertinent regulations



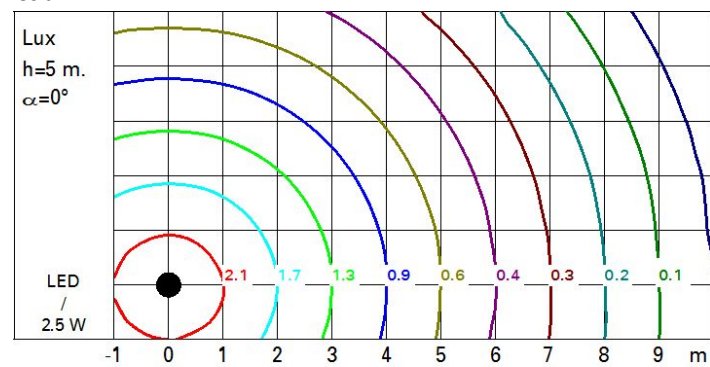
Technical data

Im system:	195	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	2.5	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	78	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]:	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]:	2900	Control:	PWM
MacAdam Step:	3		

Polar

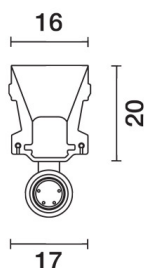


Isolux



Product configuration: E422

E422: Top-Bend 16mm version - Warm white Led - 24Vdc - L=1004mm



Product code

E422: Top-Bend 16mm version - Warm white Led - 24Vdc - L=1004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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.

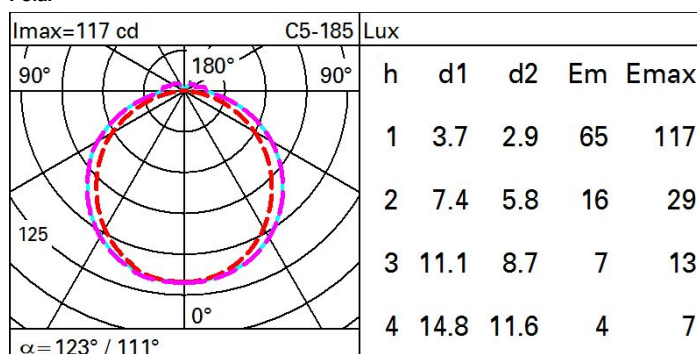
Complies with EN60598-1 and pertinent regulations



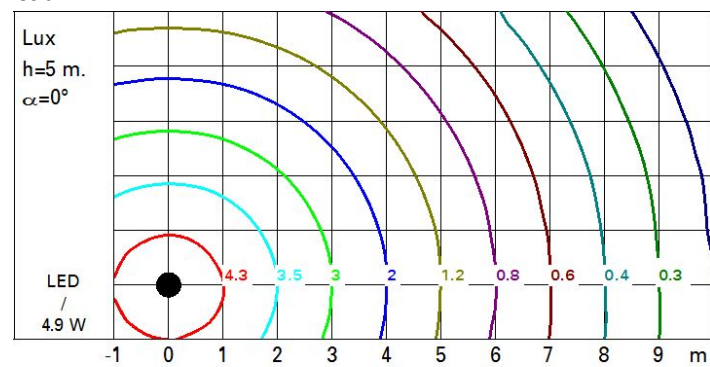
Technical data

Im system:	395	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	4.9	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	80.6	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]:	31	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



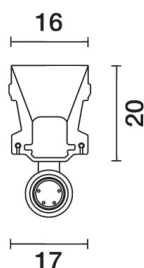
Isolux



Product configuration: E454

Product code

E454: Top-Bend 16mm version - Cool white Led - 24Vdc - L=504mm



Technical description

Luminaire for indoor and outdoor architectural linear lighting – with cool 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 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=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)	0.15
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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 \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.

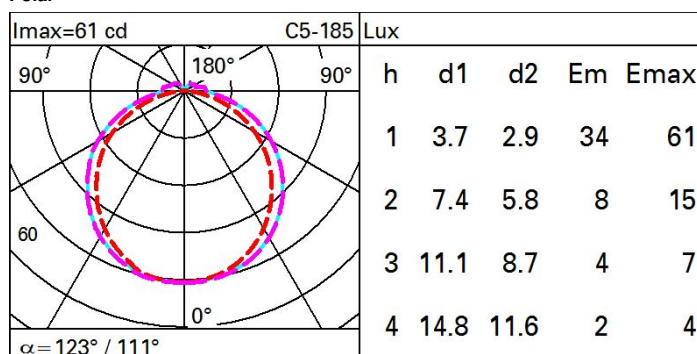
Complies with EN60598-1 and pertinent regulations



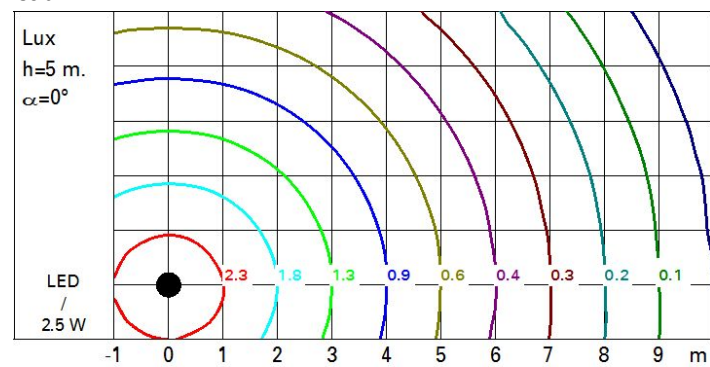
Technical data

Im system:	205	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	2.5	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	82	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]:	16	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



Bollard H=1022 - for Underscore InOut Top-Bend 16 - L = 1004

Design iGuzzini

iGuzzini

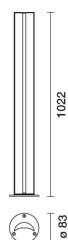
Last information update: April 2024

Product configuration: JYX8.04+E422.01+JYX9.00

JYX8.04: Bollard H=1022for Underscore InOut Top-Bend 16L = 1004Black

E422.01: Top-Bend 16mm version - Warm white Led - 24Vdc - L=1004mm - 4.9W 395lm - 2900K - White

JYX9.00: Counter-plate with anchor bolts - Indeterminate



Product code

JYX8.04: Bollard H=1022for Underscore InOut Top-Bend 16L = 1004Black

Technical description

Outdoor, direct light, pavement-mounted luminaire, designed to use Warm White LED lamps with a single emission, diffusing optic. The product consists of a body, an upper cover, a fixing base, a white screen and a watertight reglette containing the control gear and a led circuit. The cylindrical body is made of extruded aluminium with an upper cover and includes a die-cast aluminium lower base. The painting process includes a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. The inside of the body houses two stainless steel rods fixed to the base that give the product a high level of impact resistance. The product is anchored to the ground by the fixing base made of corrosion-resistant low copper content die-cast aluminium alloy. The diffuser screen is made of opal white anti-UV polycarbonate. The body contains a watertight, satin-finish methacrylate, reglette luminaire, with plastic caps and captive stainless steel screws, a PG9 cable gland and a single output cable. The Warm White Led circuit and the electronic control gear are positioned inside the reglette luminaire. The upper cover is fixed to the body with stainless steel bolts. All accessible parts have a top temperature of 50°C. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation

The device can be applied directly to the pavement using the lower fixing base and screw anchors (Fisher type or similar) or using a fixing plate with Dakromet coated brackets, to further protect against corrosion (to be ordered separately). When ground-installing the device a drainage pipe and a gravel base for drainage should be installed under the pavement and/or concrete to guarantee the required level of protection: for more information see the instruction sheet.

Colour

Black (04)*

Weight (Kg)

4.13

* Colours on request

Mounting

ground surface|ground anchored

Wiring

The 20-240V ac control gear is housed inside the watertight reglette luminaire. Complete with rubber output cable H05RN-F 2x1mm². To make the electrical connections a separate junction well must be dug.

Notes

Product complete with LED lamp.

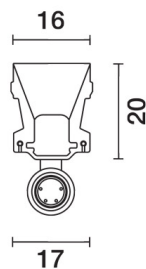
Complies with EN60598-1 and pertinent regulations



IK09

IP66

1m
IP68
if the strip
is uncut



Product code

E422.01: Top-Bend 16mm version - Warm white Led - 24Vdc - L=1004mm - 4.9W 395lm - 2900K - White

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with warm white monochrome Leds – on a 24Vdc flexible white circuit, length L=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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



Accessory code

JYX9.00: Counter-plate with anchor bolts - Indeterminate

Technical description

Counter-plate with anchor bolts

Colour

Indeterminate (00)*

Weight (Kg)

1.05

* Colours on request

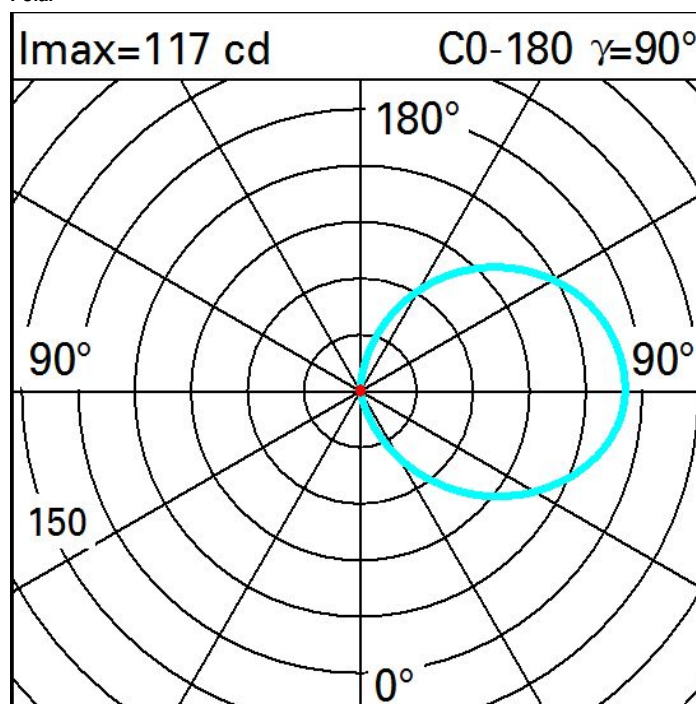
Complies with EN60598-1 and pertinent regulations

Technical data

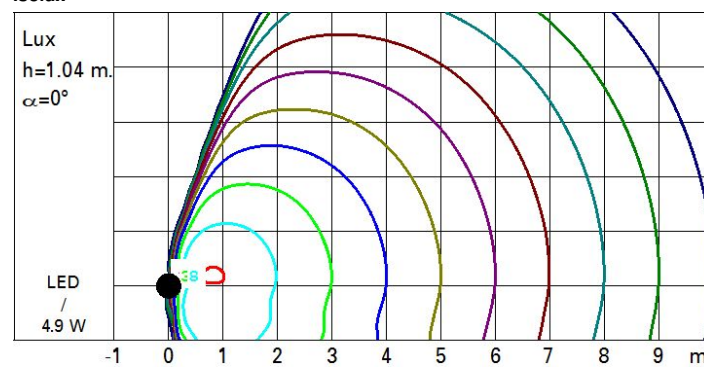
Im system:	320	Colour temperature [K]:	2900
W system:	4.9	MacAdam Step:	3
Im source:	395	Ballast losses [W]:	0
W source:	4.9	Lamp code:	LED
Luminous efficiency (Im/W, real value):	65.3	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	168	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	81	Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
CRI (minimum):	80	LED current [mA]:	10

* Preliminary data

Polar



Isolux



Bollard H=522 - for Underscore InOut Top-Bend 16 - L = 504

Design iGuzzini

iGuzzini

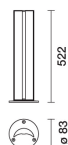
Last information update: April 2024

Product configuration: JYX7.04+E412.01+JYX9.00

JYX7.04: Bollard H=522for Underscore InOut Top-Bend 16L = 504Black

E412.01: Top-Bend 16mm version - Warm white Led - 24Vdc - L=504mm - 2.5W 195lm - 2900K - White

JYX9.00: Counter-plate with anchor bolts - Indeterminate



Product code

JYX7.04: Bollard H=522for Underscore InOut Top-Bend 16L = 504Black

Technical description

Outdoor, direct light, pavement-mounted luminaire, designed to use Warm White LED lamps with a single emission, diffusing optic. The product consists of a body, an upper cover, a fixing base, a white screen and a watertight reglette containing the control gear and a led circuit. The cylindrical body is made of extruded aluminium with an upper cover and includes a die-cast aluminium lower base. The painting process includes a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. The inside of the body houses two stainless steel rods fixed to the base that give the product a high level of impact resistance. The product is anchored to the ground by the fixing base made of corrosion-resistant low copper content die-cast aluminium alloy. The diffuser screen is made of opal white anti-UV polycarbonate. The body contains a watertight, satin-finish methacrylate, reglette luminaire, with plastic caps and captive stainless steel screws, a PG9 cable gland and a single output cable. The Warm White Led circuit and the electronic control gear are positioned inside the reglette luminaire. The upper cover is fixed to the body with stainless steel bolts. All accessible parts have a top temperature of 50°C. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation

The device can be applied directly to the pavement using the lower fixing base and screw anchors (Fisher type or similar) or using a fixing plate with Dakromet coated brackets, to further protect against corrosion (to be ordered separately). When ground-installing the device a drainage pipe and a gravel base for drainage should be installed under the pavement and/or concrete to guarantee the required level of protection: for more information see the instruction sheet.

Colour

Black (04)*

Weight (Kg)

2.48

* Colours on request

Mounting

ground surface|ground anchored

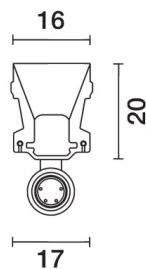
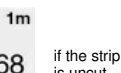
Wiring

The 20-240V ac control gear is housed inside the watertight reglette luminaire. Complete with rubber output cable H05RN-F 2x1mm². To make the electrical connections a separate junction well must be dug.

Notes

Product complete with LED lamp.

Complies with EN60598-1 and pertinent regulations



Product code

E412.01: Top-Bend 16mm version - Warm white Led - 24Vdc - L=504mm - 2.5W 195lm - 2900K - White

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 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=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)

0.15

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



Accessory code

JYX9.00: Counter-plate with anchor bolts - Indeterminate

Technical description

Counter-plate with anchor bolts

Colour

Indeterminate (00)*

Weight (Kg)

1.05

* Colours on request

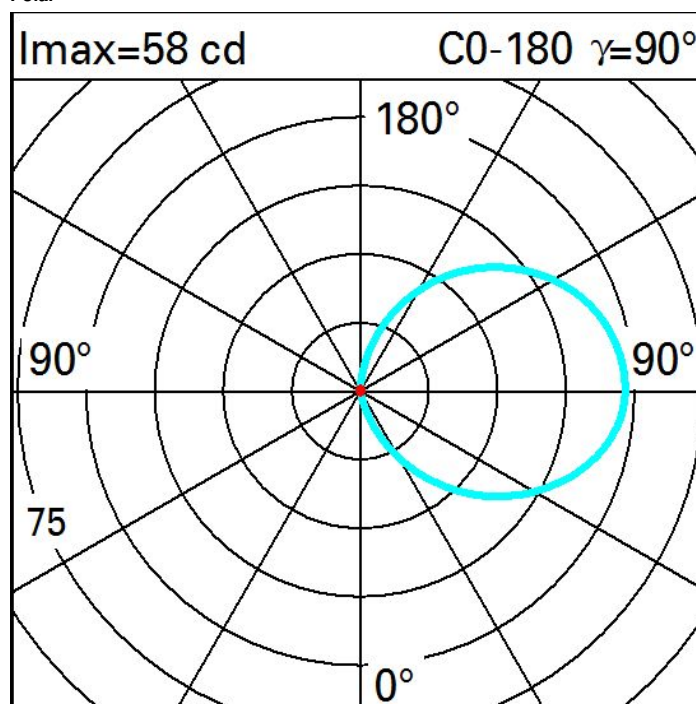
Complies with EN60598-1 and pertinent regulations

Technical data

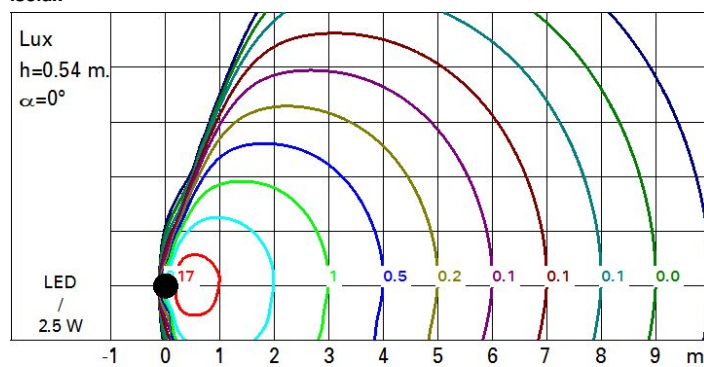
Im system:	158	Colour temperature [K]:	2900
W system:	2.5	MacAdam Step:	3
Im source:	195	Ballast losses [W]:	0
W source:	2.5	Lamp code:	LED
Luminous efficiency (Im/W, real value):	63.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	83	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	81	Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
CRI (minimum):	80	LED current [mA]:	10

* Preliminary data

Polar



Isolux



Product configuration: EB18

Product code

Technical description

Installation

Colour

Weight (Kg)

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.

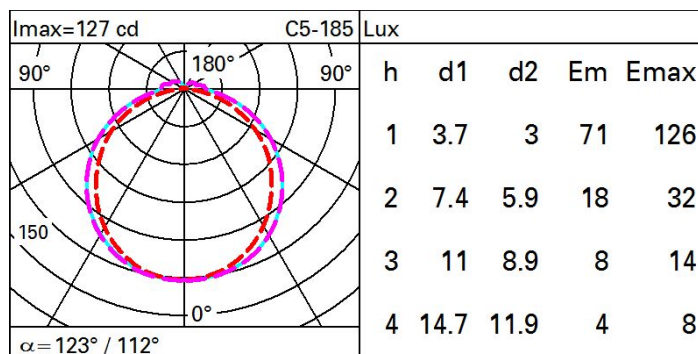
Complies with EN60598-1 and pertinent regulations



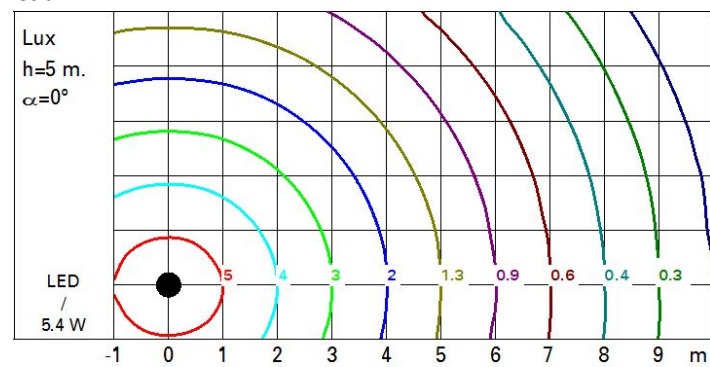
Technical data

Im system:	430	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	5.4	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	79.6	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]:	35	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]:	25
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar



Isolux



Last information update: February 2025

Product configuration: EB28

EB28: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=1004mm

**Product code**

EB28: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=1004mm

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=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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**

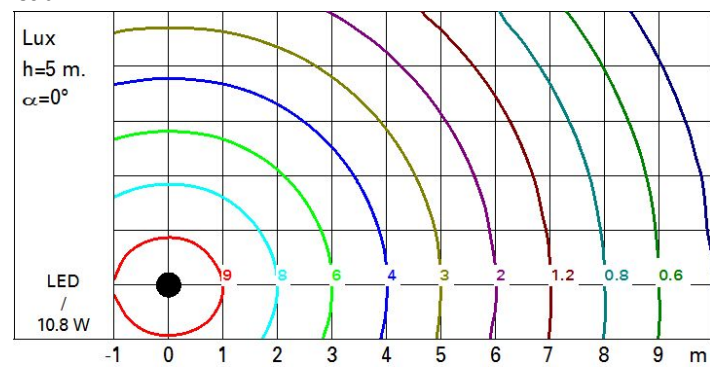
Im system:	855	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	10.8	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	79.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	70	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]:	25
Colour temperature [K]:	2600	Control:	PWM
MacAdam Step:	3		

Polar

Imax=252 cd		C5-185		Lux	
h	d1	d2	Em	Emax	
1	3.7	3	141	251	
2	7.4	5.9	35	63	
3	11	8.9	16	28	
4	14.7	11.9	9	16	

$\alpha = 123^\circ / 112^\circ$

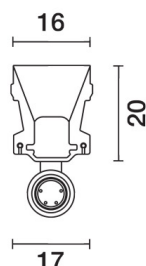
Isolux



Last information update: February 2025

Product configuration: EB39

EB39: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=504mm



Product code

EB39: Top-Bend 16mm version - Warm white Led - High output - 24Vdc - L=504mm

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=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 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=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)

0.15

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.

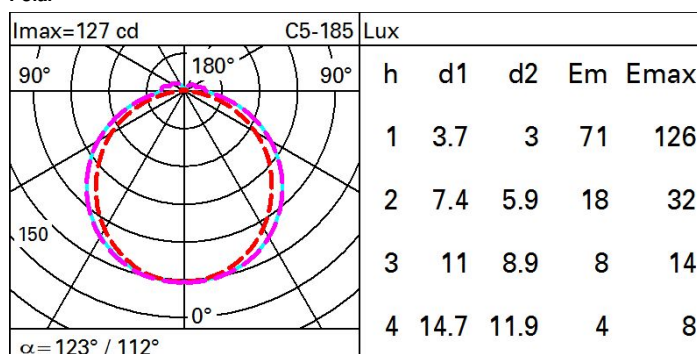
Complies with EN60598-1 and pertinent regulations



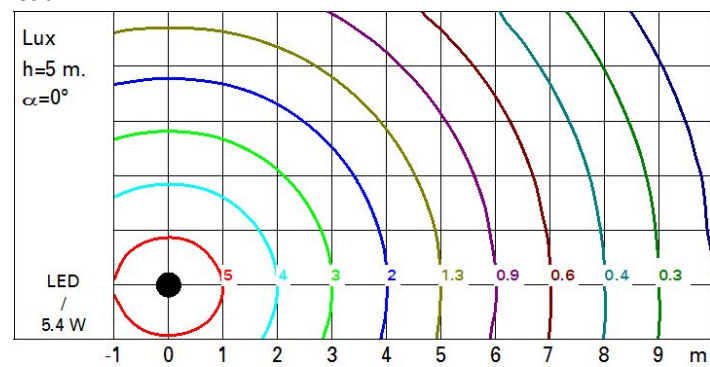
Technical data

Im system:	430	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	5.4	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	79.6	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]:	35	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]:	25
Colour temperature [K]:	2900	Control:	PWM
MacAdam Step:	3		

Polar



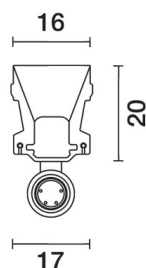
Isolux



Last information update: February 2025

Product configuration: EB70

EB70: Top-Bend 16mm version - Neutral white Led - High output - 24Vdc - L=1004mm

**Product code**

EB70: Top-Bend 16mm version - Neutral white Led - High output - 24Vdc - L=1004mm

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=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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**

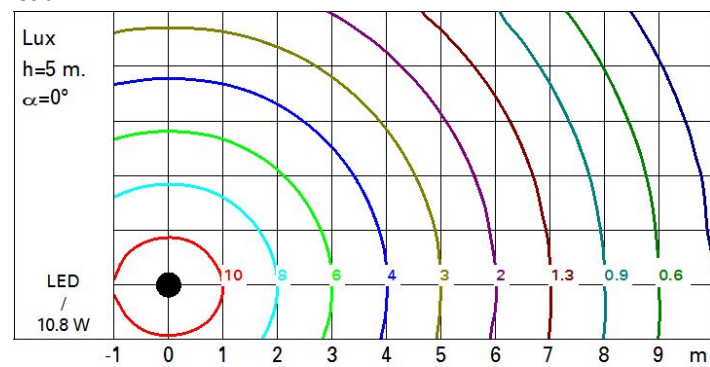
Im system:	905	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	10.8	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (Im/W, real value):	83.8	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	74	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]:	25
Colour temperature [K]:	3800	Control:	PWM
MacAdam Step:	3		

Polar

Imax=267 cd		C5-185		Lux	
h	d1	d2	Em	Emax	
1	3.7	3	149	266	
2	7.4	5.9	37	66	
3	11	8.9	17	30	
4	14.7	11.9	9	17	

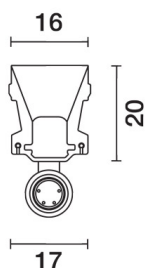
$\alpha = 123^\circ / 112^\circ$

Isolux



Product configuration: EB91

EB91: Top-Bend 16mm version - Cool white Led - High output - 24Vdc - L=1004mm



Product code

EB91: Top-Bend 16mm version - Cool white Led - High output - 24Vdc - L=1004mm

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=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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.

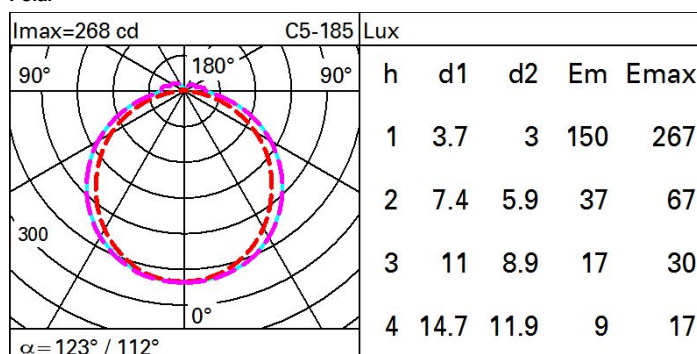
Complies with EN60598-1 and pertinent regulations



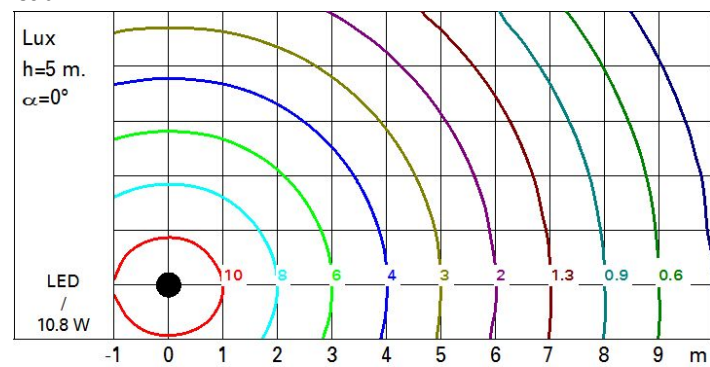
Technical data

Im system:	910	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	10.8	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	24
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	84.3	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]:	74	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]:	25
Colour temperature [K]:	4700	Control:	PWM
MacAdam Step:	3		

Polar



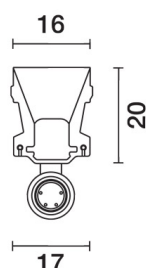
Isolux



Last information update: February 2025

Product configuration: E485

E485: Top-Bend 16mm version Led - 24Vdc - L=1004mm

**Product code**

E485: Top-Bend 16mm version Led - 24Vdc - L=1004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with RGB Led – on a 24Vdc flexible white circuit, length L=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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 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).

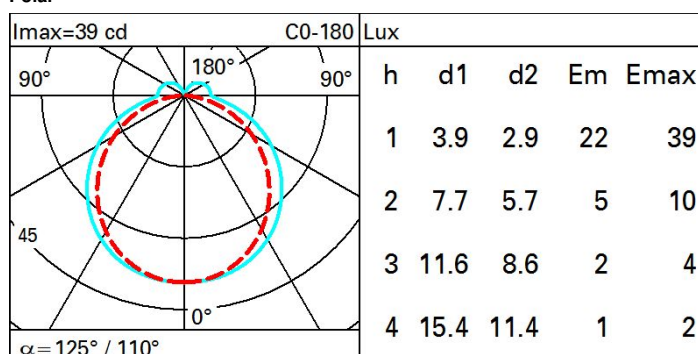
Notes

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.

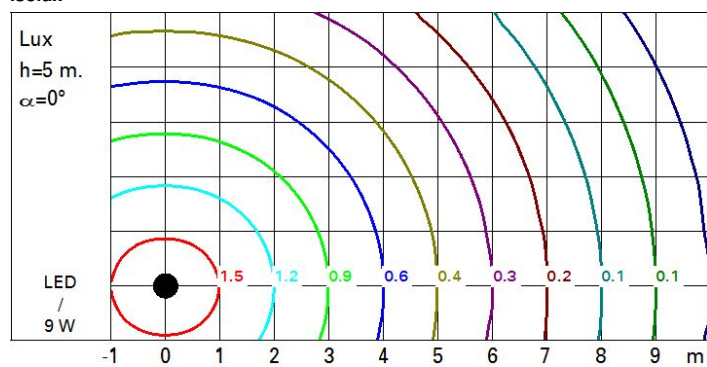
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	140	Voltage [Vin]:	24
W system:	9	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	15.6	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]:	16	LED current [mA]:	5
Light Output Ratio (L.O.R.) [%]:	100	Control:	PWM
Colour temperature [K]:	RGB		

Polar

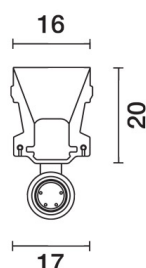
Isolux



Last information update: February 2025

Product configuration: EB07

EB07: Top-Bend 16mm version - Led - 24Vdc - L=1004mm

**Product code**

EB07: Top-Bend 16mm version - Led - 24Vdc - L=1004mm

Technical description

Luminaire for indoor and outdoor architectural linear lighting – with Tunable White 2500÷4500K Led – on a 24Vdc flexible white circuit, length L=1004mm. 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=1000-2000) 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=1000mm) 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)

0.3

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).

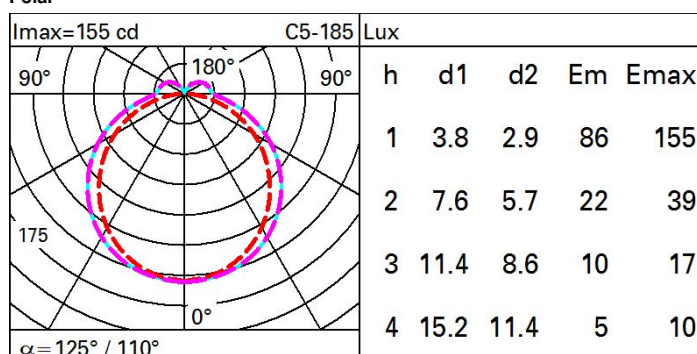
Notes

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:	550	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	9.6	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):	57.3	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]:	59	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

