

LED Linear Lighting 2017/2018



SELF

Think Life Enjoy Light





1993-2017

The story of Three Pine Trees

In the west of the SELF new plant standing three pines: "We, plain but of a unique style, remain calm and not disturbed after the relocation. We, together with SELF people, witness the transformation after the raging storms!"

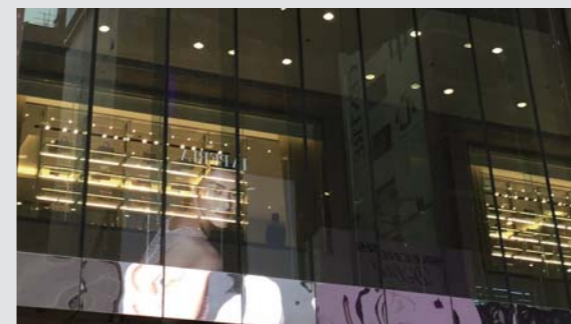
In 1997, Ningbo was attacked by disastrous typhoon, and then SELF employees protected the growing spines by steel bed. The same year, SELF suffered "TüV Incident", in a pinch, it was the philosophy "be a good SELF employee before doing something" leading us out of trouble and winning good reputation on the market.

SELF has been relocated three times since 1993, during the time the three pines have grown into towering trees. The character of "people" in Chinese means supporting each other, means weathering the storm together. "Cold and heat cannot shale our faith, time and tide cannot defeat us", this is the quality of both pine trees and SELF Electronics. Although the market is unpredictable, the difficulties happened to us again and again, we will never stop chasing a brilliant future.....



Cove lighting so smooth Store looks harmonious

Ceiling design varies according to interior style such as simplicity, vintage or country, cove lighting varies accordingly. Different from down light, linkable cove light generates continuous lighting in longer distance, to create harmonious atmosphere in GUCCI store. Since the light was reflected by the smooth ceiling surface and light up downward, this indirect lighting minimizes the harm to human eye and made visual effect more comfortable. With this smooth cove lighting, the store looks more grace than before.



About us



SELF Electronics Manufacture Base (Ningbo, China)



SELF Electronics USA Corporation (Atlanta GA, United States)



SELF Electronics Germany GmbH (Cologne, Germany)



SELF is a technical and quality-oriented specialist in commercial LED lighting innovation, design and production for global retail market. With our well-experienced engineering team, we always focus on the latest technical, material and technology developments.

Time goes by and stores frequently change their appearance. From Cologne, we provide you with LED lighting solutions for the following segments.

- Cooler lighting
- Linear lighting
- Showcase lighting
- Trunk lighting
- Track lighting
- Recessed lighting

The headquarters of SELF, founded in 1993, is located in Ningbo, China. With a professional R&D team, an advanced testing laboratory center and 58,000m² production area, SELF is well known as a National Norms Editor, for its publication of the Light Emitting Diode(LED) Lighting Fixture for Architectural Indoor Use(China)and as a, VDE TDAP (Europe) & UL CTD holder (North America) in lighting industries.

Combining our extensive knowledge of LED technology and creative design philosophy, as the perfect solution provider, SELF brings professional illumination into your world.

Road of innovation

1993

SELF is founded as the first IR sensor lighting manufacturer in China.

1996

Electronic transformer achieves TÜV certification in Germany.

2000

SELF makes a significant progress in the electronic transformer EMC performance and solves the technical bottleneck of mutual EMC interference between long cord and stranded cord.

2005

SELF develops drivers for commercial LED lighting.

2008

SELF develops more than 10 LED fixtures for cabinets.

2010

SELF's LED refrigeration lighting range is launched onto the market.

SELF's laboratory obtains American UL-CTDP certification.

2012

COOLED is the first replaceable luminaire certified by VDE and complies with IEC60598-1 and IEC60335-1 standards.

2015

SELF achieved National Enterprise Postdoctoral Programme. Issued by National Human Resources & Social Security Bureau and National Postdoctoral Administrative Committee.

1994

The first automatic light HZD101 achieves GS certification.

1998

SELF's first electronic transformer achieves VDE certification in Germany making SELF the first Chinese company to get this certification for transformer technology.

2004

36 high-quality residential ballasts are launched onto the market.

SELF develops the slimmest and thinnest LED fixture in the world.

2007

SELF develops LED ceiling lighting and wireless drawer lighting.

2009

SELF's showcase lighting is installed in more than 1,600 stores of a world-famous jewelry brand.

SELF's European headquarters is founded in Cologne, Germany.

SELF's US headquarters is founded in Atlanta, USA.

2011

Unique double optic lens technology is developed for refrigeration LED lighting.

2014

SELF's laboratory obtains VDE's Test Data Acceptance Program certification.

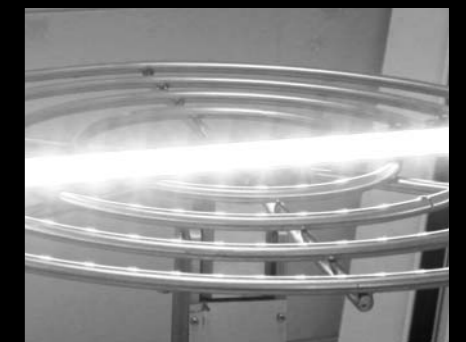
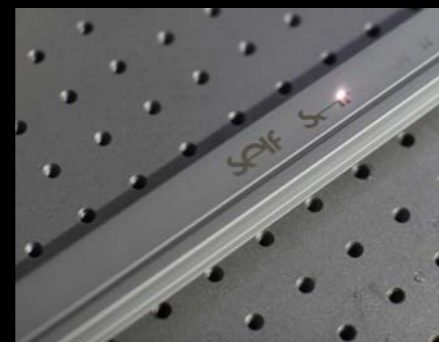
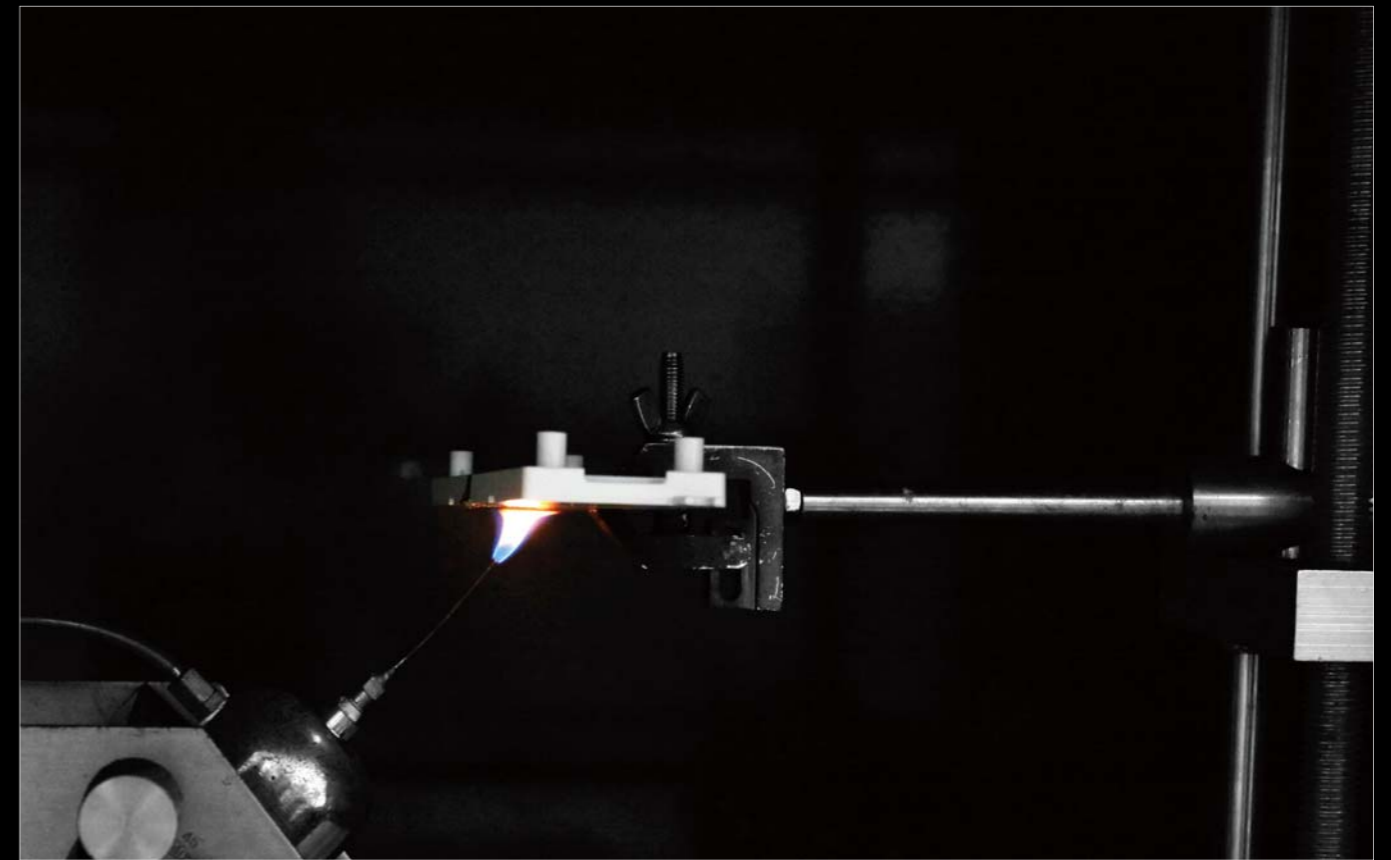
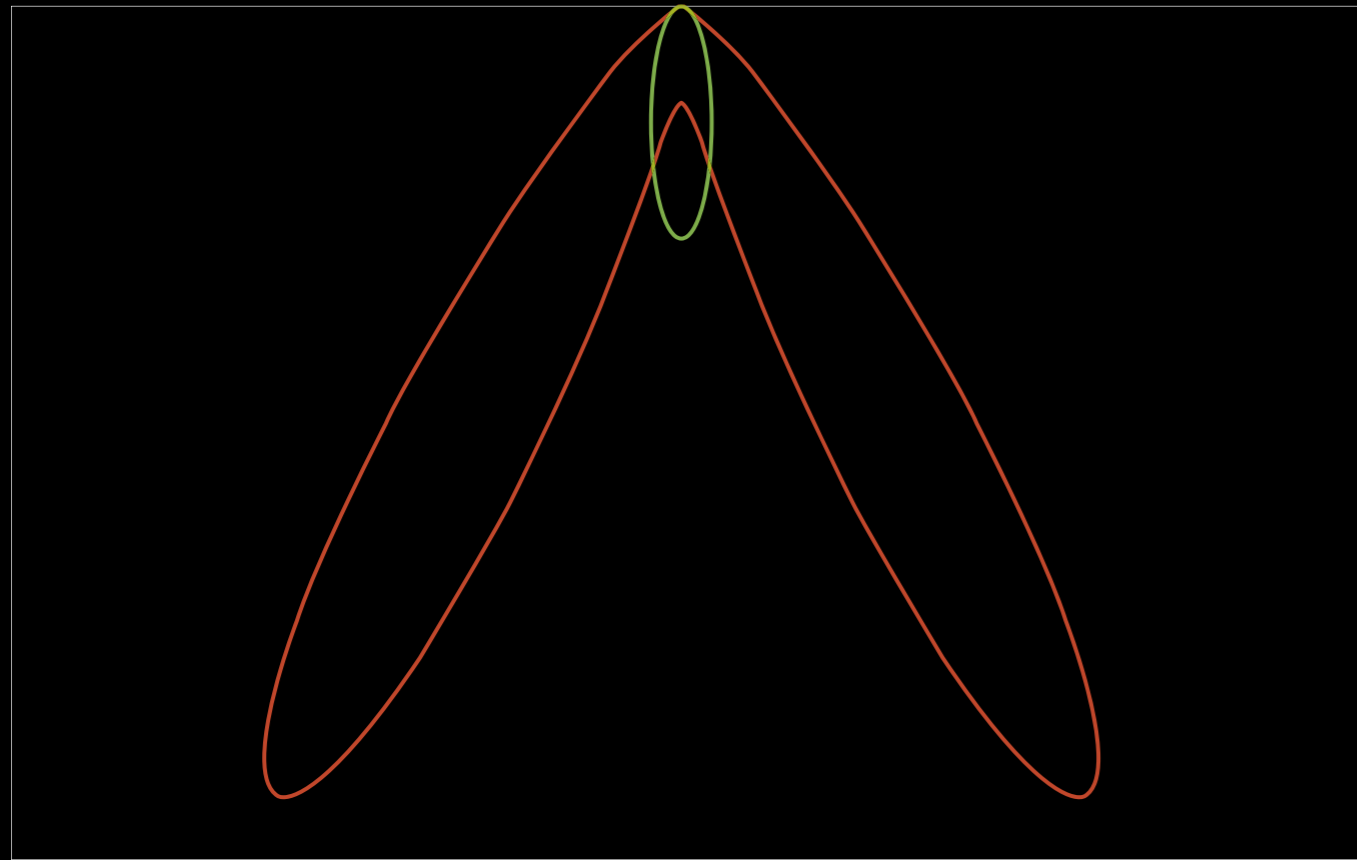
SELF's display lighting BAMBO receives iF-award in Germany.

2016

Accomplished implementation of SAP to run SELF global business.

Achieved 200 Patents accumulatively.

Core competence



Research and development

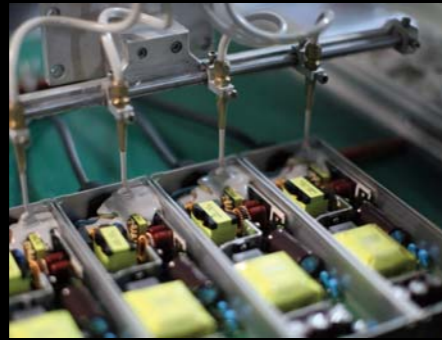
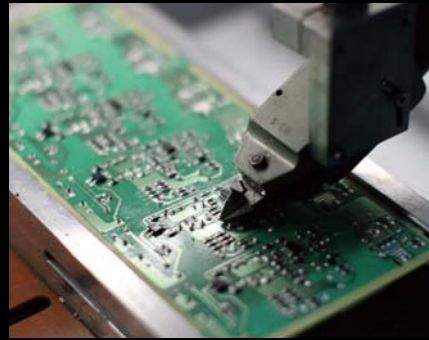
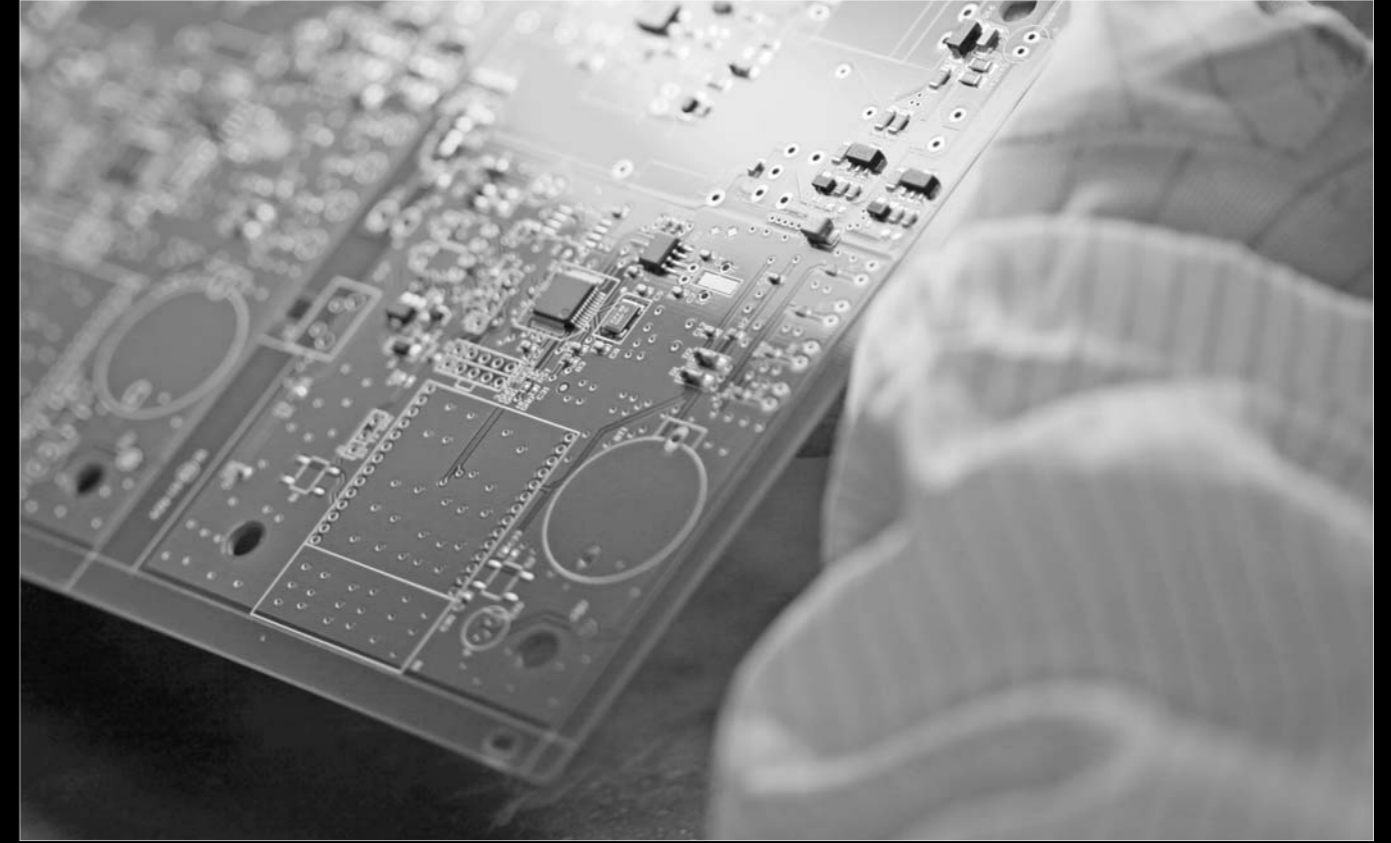
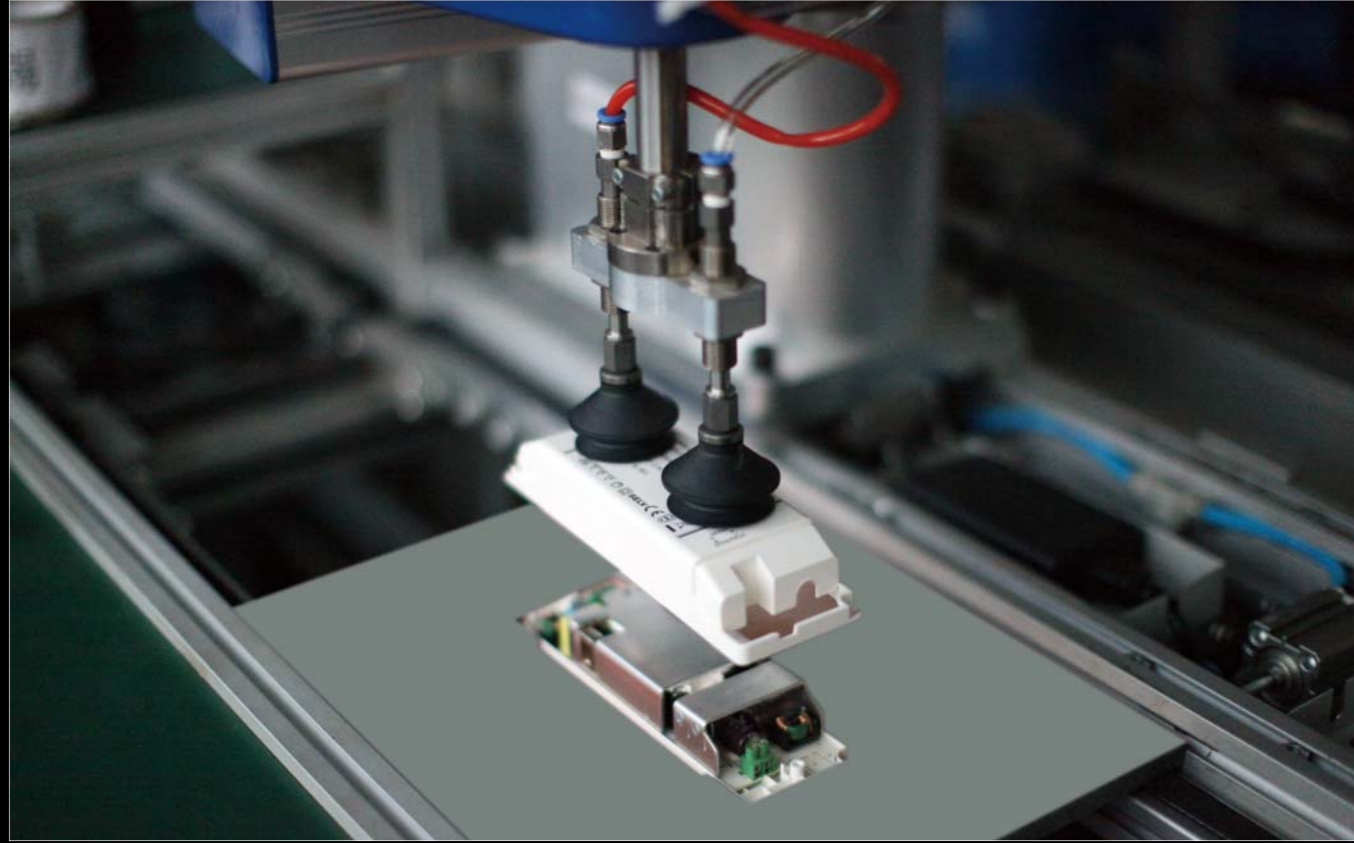
With a development team of electronic, mechanical, optical, thermal etc engineers, SELF is a company with independent development and design capabilities.

Testing facilities

SELF's testing facility resources include a talented staff of senior testing engineers as well as advanced testing equipment. SELF uses its state-of-the-art testing facilities to ensure products comply with international standards. SELF's testing laboratory is approved by UL as a CTDP (Client Test Data Program) laboratory for both LED power supply and LED lighting fixtures, and the laboratory has also been authorized to be the VDE TDAP (Test Data Acceptance Program) by Underwriters Laboratories Inc.



Core competence



Production management

With a factory floor area of more than 58,000 m², SELF has the latest technology assembly lines, large-scale production capability, and advanced production equipments. ERP systems manage orders from placement to fulfillment, ensuring prompt production and delivery.

Quality

The SELF Quality Control department strives to maintain the highest level of production by performing 100% on-line inspections.

Linear lighting
LINSH (Upgraded)



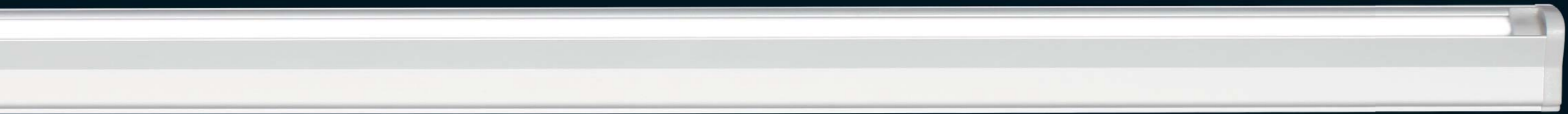
20%

power consumption
lower than before at
original CCT

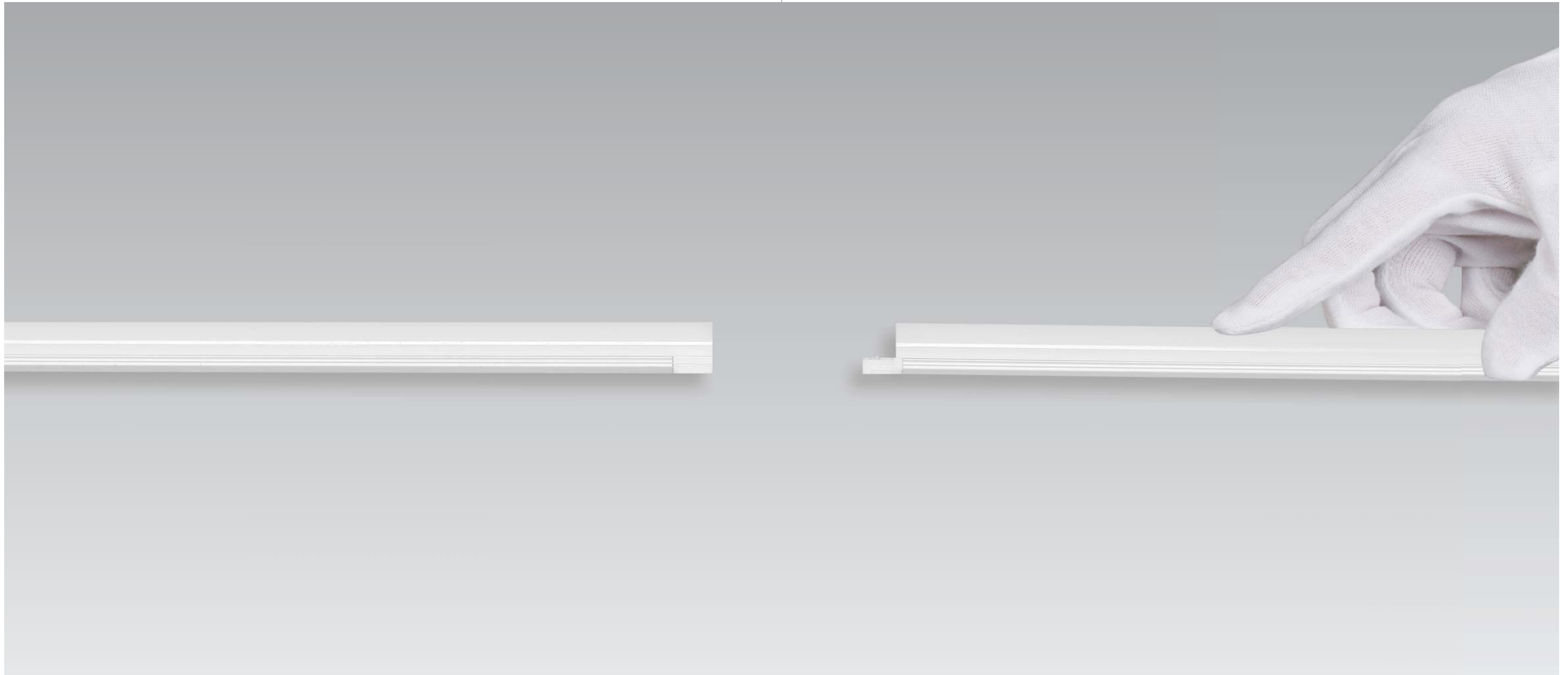
High CRI release

Ra > 90

Linear lighting



Linear lighting
ARROW



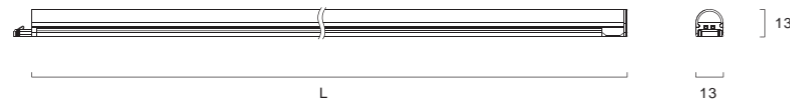
Linear lighting ARROW



- Housing: Extrusion aluminum oxidized.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI min.: 80/90.
- Chromaticity tolerance (initial MacAdam): 5 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12hrs/day).
- Heat management: Passive.
- Input voltage: 24 VDC.
- N.W. : 95/143/290 g.
- Ta: -20~35°C.
- Impact resistance: IK02.
- Protection class: IP20.



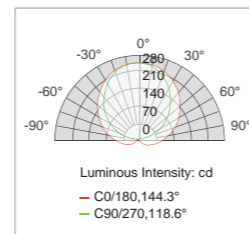
Dimensions: (mm)



Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-148155-0133			3000		420	105		
	1030-148055-0133	ARROW-L48-24V	4	4000	145°	450	113	300	15
	1030-148055-0134			5000		450	113		
	1030-190113-0133			3000		780	104		
	1030-190013-0134	ARROW-L90-24V	7.5	4000	145°	840	112	570	8
	1030-190013-0135			5000		840	112		
	1030-100198-0133			3000		1200	104		
	1030-100098-0134	ARROW-L138-24V	11.5	4000	145°	1300	113	870	5
	1030-100098-0135			5000		1300	113		


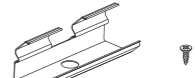
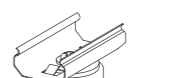


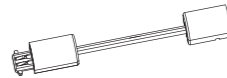
- [1]: The minimum power is 84% of typical values.
 [2]: The minimum flux is 84% of typical values.
 [3]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.
 [4]: CRI 90 is also available, Please contact sales for more detail information.

Photometrics



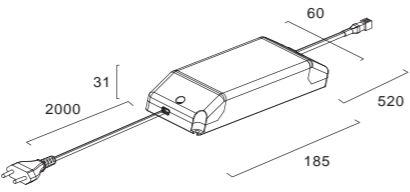
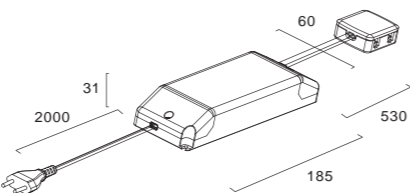
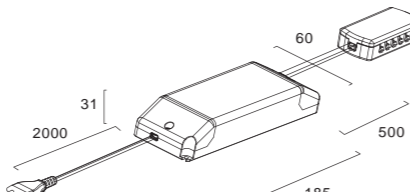
Linear lighting ARROW

Accessories (optional)

Order No.	Description	Length (mm)	N.W. (g)
1099-013380-0130	 0° mounting clip X2	25	1
1099-013380-0131	 45° mounting clip X2	30	1.15
1099-013380-0132	 0° magnetic mounting clip X2	25	7.75
1099-013380-0133	 45° magnetic mounting clip X2	30	7.8
1099-013777-0130	 Input cable	1500	-
1099-013380-0135	 Soft connector	500	-

Linear lighting ARROW

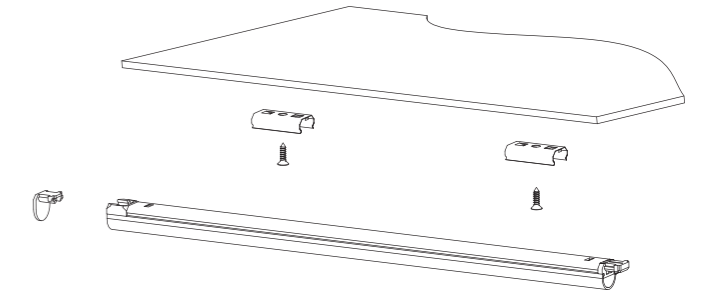
Accessories (optional)

Order No.	Description
1001-260021-0137	 <p>Model: SLT75-24VL-E Matching driver, max. 75 W. Input: 220 - 240 VAC, 2000 mm cable + plug Output: 24 V, 520 mm cable + plug</p>
1001-260021-0138	 <p>Model: SLT75-24VL-E Matching driver, max. 75 W. Input: 220 - 240 VAC, 2000 mm cable + plug Output: 24 V, 530 mm cable + JB-4A</p>
1001-260085-0131	 <p>Model: SLT150-24VL-E Matching driver, max. 150 W. Input: 220 - 240 VAC, 2000 mm cable + plug Output: 24 V, 500 mm cable + JB-12A</p>

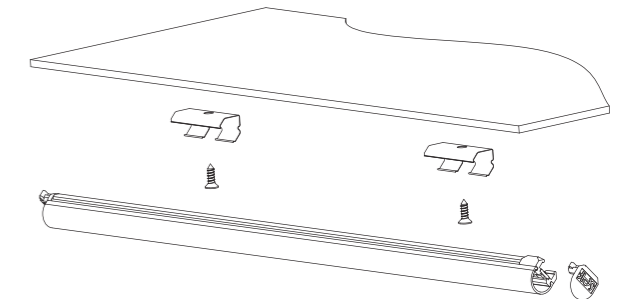
Linear lighting ARROW

Installation

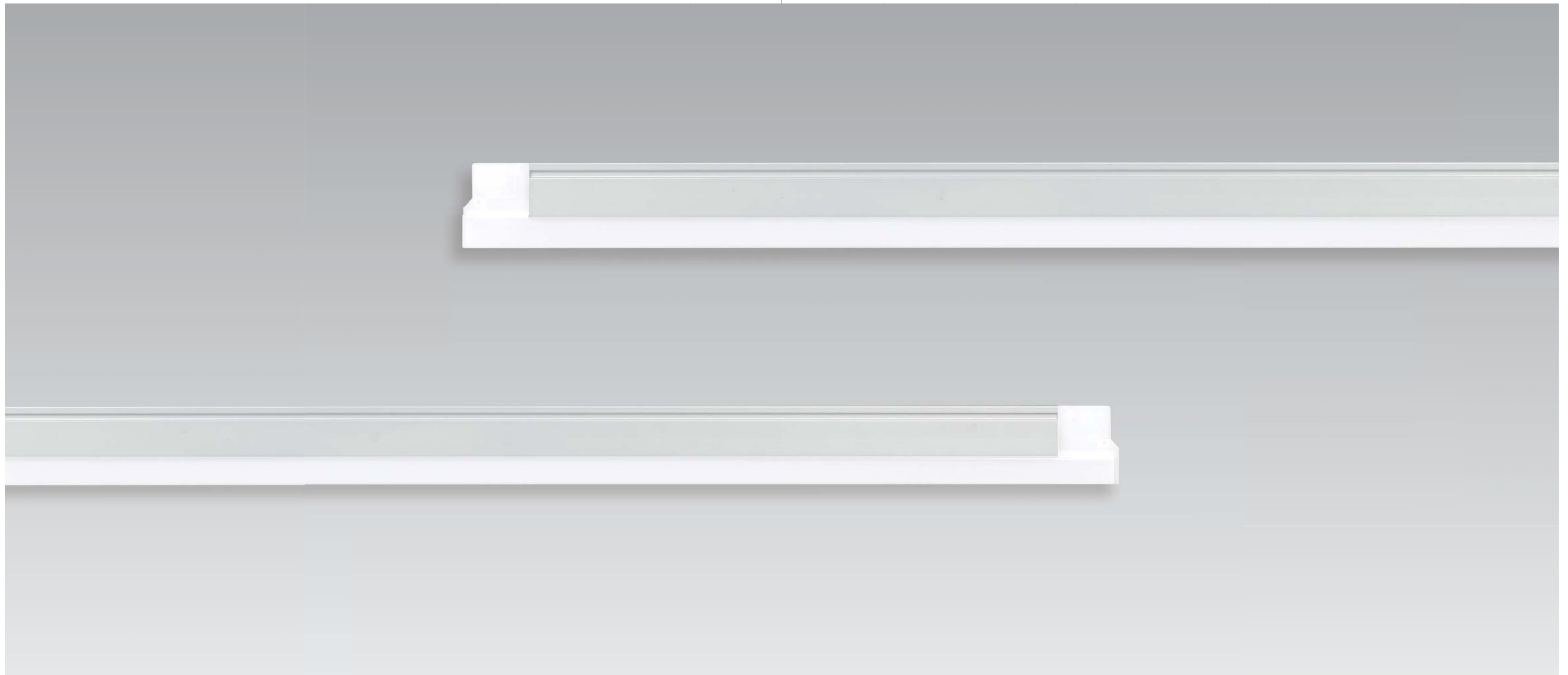
0° mounting clip



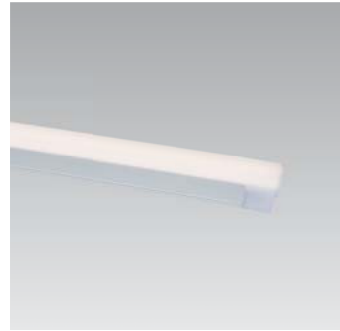
45° mounting clip



Linear lighting
LUMINA



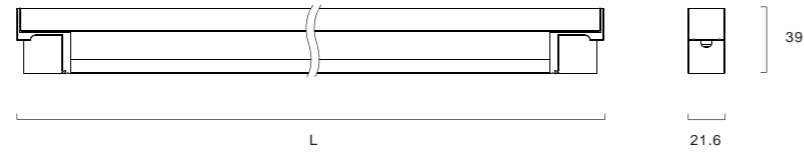
Linear lighting LUMINA



- Housing: Extrusion aluminum oxidized.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI min.: 80/90.
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12 hrs/Day).
- Heat management: Passive.
- Input voltage: 220-240 VAC.
- N.W. : 290/370/450 g.
- Ta: -20~35°C.
- Impact resistance: IK04.
- Protection class: IP20.



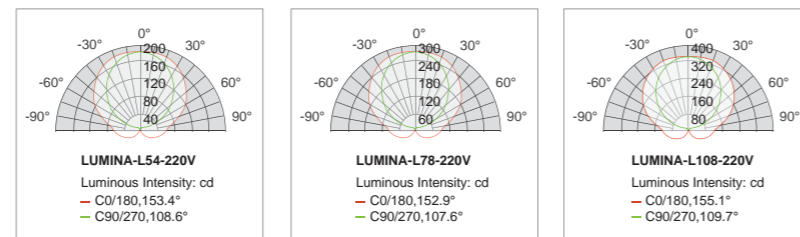
Dimensions: (mm)



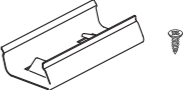

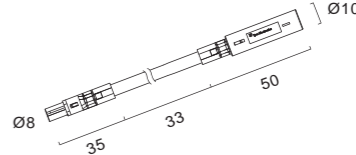
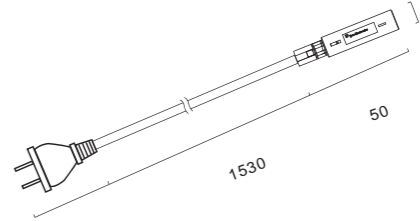
Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-154118-0130	LUMINA-L54-220V	9	3000	155°	830	92	580	40
	1030-154018-0130			4000		910	101		
	1030-178105-0130	LUMINA-L78-220V	14	3000	155°	1200	86	880	26
	1030-178005-0130			4000		1300	93		
	1030-199126-0130	LUMINA-L108-220V	19	3000	155°	1700	89	1180	18
	1030-199026-0130			4000		1800	95		

- [1]: The minimum power is 80% of typical values.
 [2]: The minimum flux is 83% of typical values.
 [3]: Based on calculation of TYPE C 16A mini circuit breakers.

Photometrics

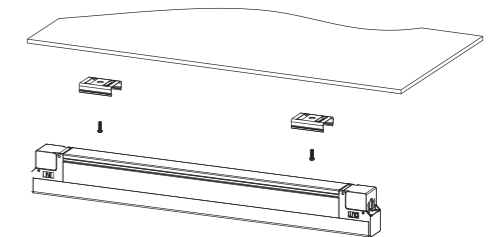


Linear lighting LUMINA

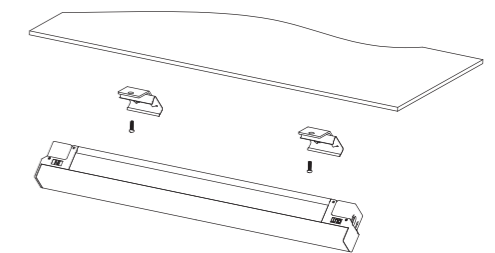
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013272-0130	 Mounting Clips x 2	30	2.5
	1099-013272-0131	 Mounting clips 45° x 2	30	11
	1099-013652-0130	 Soft connector	330	-
	1099-013653-0132	 Power-in cable	1530	-

Installation

Mounting clip installation



45° mounting clip installation



Linear lighting
LINSH



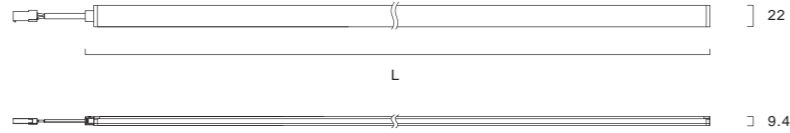
Linear lighting LINSH



- Housing: Extrusion aluminum oxidized.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI min.: 80/90.
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12 hrs/Day).
- Heat management: Passive.
- Input voltage: 24VDC.
- N.W. : 388/540 g.
- Ta: -20~35°C.
- Impact resistance: IK02.
- Protection class: IP20.



Dimensions: (mm)



Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. Linkable (PCS) ⁽³⁾
	1030-148163-0130				3000		860	119		
	1030-148063-0130		7.2	80	4000	110°	940	131		
	1030-148063-0131				5000		940	131		
	1030-148163-0131	LINSH-L48-24V-2 (Mounting clip)			3000		770	86	895	6
	1030-148063-0132		9	90	4000	110°	840	93		
	1030-148063-0133				5000		890	99		
	1030-160117-0131				3000		1100	115		
	1030-160017-0130		9.6	80	4000	110°	1200	125		
	1030-160017-0131				5000		1200	125		
	1030-160117-0134	LINSH-L60-24V-2 (Mounting clip)			3000		960	80	1195	5
	1030-160017-0132		12	90	4000	110°	1100	92		
	1030-160017-0133				5000		1100	92		

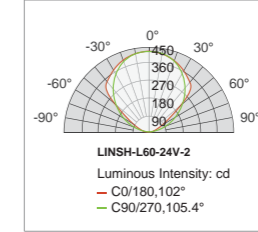
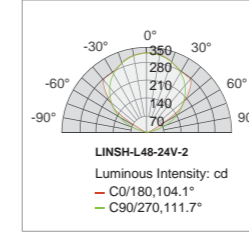
[1]: The minimum power is 85% of typical values.

[2]: The minimum flux is 83% of typical values.

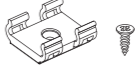

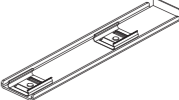

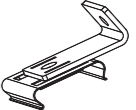
[3]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

Linear lighting LINSH

Photometrics



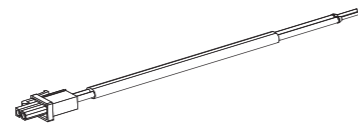
Accessories (optional)

Order No.	Description	Length (mm)	N.W. (g)
1099-013333-0130	 0° mounting clips x 2	-	3
1099-013662-0130	 Magnet mounting Clips x 2	30	7
1099-307011-3070	 Mounting clip shelf arm x 1	190	100
1099-013333-0131	  Blind rivet 3.2*6.4 x 2 Mounting Clips x 2	30	7.75

Linear lighting LINSH

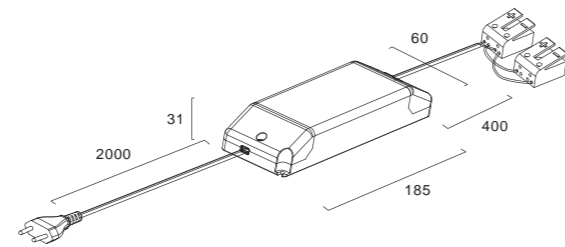
1099-013653-0131

3000 7.8



Input cable
x 1

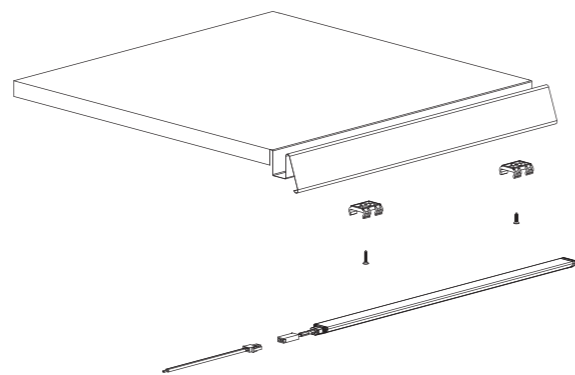
1001-260021-0133



Model: SLT75-24VL-E
Matching driver, max. 75W.
Input: 220 - 240 VAC, 2000 mm cable + plug
Output: 24V, 400 mm cable + 2*DSG plug

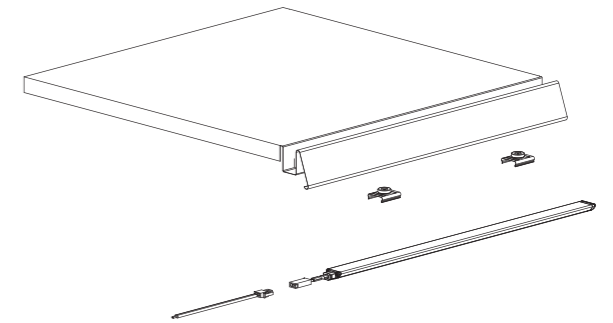
Installation

Mounting clip installation

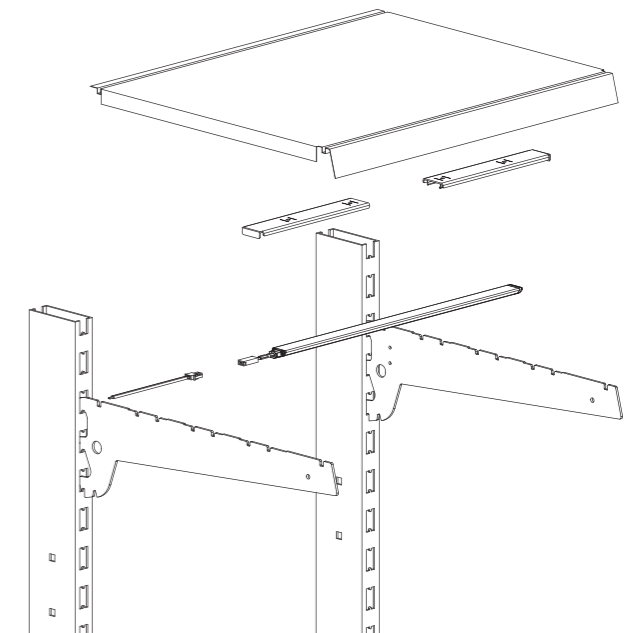


Linear lighting LINSH

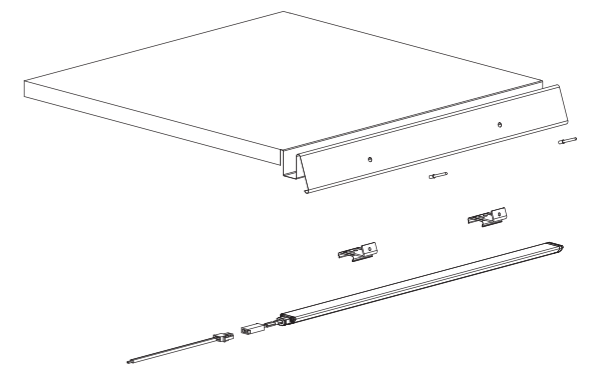
Magnetic installation



Mounting clip shelf arm



Mounting clip installation under price tag



Linear lighting MULTIFRIO



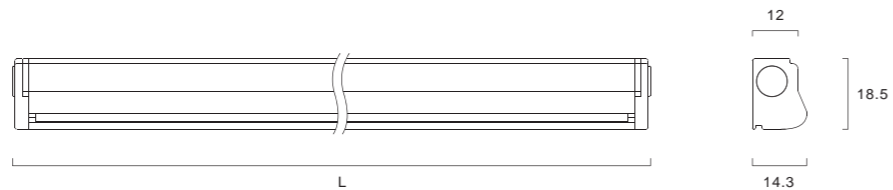
Linear lighting MULTIFRIO



- Housing: Extrusion aluminum oxidized.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI min.: 80/90.
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12 hrs/day).
- Heat management: Passive.
- Input voltage: 24VDC.
- N.W. : 70/145/210/290/420 g.
- Ta: -30~35°C.
- Impact resistance: IK02.
- Protection class: IP65.



Dimensions: (mm)



Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT ⁽²⁾ (K)	Beam Angle	Luminous Flux ⁽³⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽⁴⁾	
	1030-118148-0130				3000		300	100			
	1030-118048-0130			80	4000		330	110			
	1030-118048-0132	MULTIFRIO-L18-24V	3		5000	25°	330	110	300	14	
	1030-118148-0131				3000		210	70			
	1030-118048-0131				90		4000	230			77
	1030-118048-0133				5000		250	83			
	1030-136192-0130						3000	610			102
	1030-136092-0130			80	4000		660	110			
	1030-136092-0132	MULTIFRIO-L36-24V	6		5000	25°	660	110	600	7	
	1030-136192-0131				3000		430	72			
	1030-136092-0131				90		4000	470			78
	1030-136092-0133				5000		490	82			
	1030-148183-0130						3000	800			94
	1030-148083-0130			80	4000		870	102			
	1030-148183-0132	MULTIFRIO-L48-24V	8.5		5000	25°	870	102	850	5	
	1030-148183-0131				3000		560	66			
	1030-148083-0131				90		4000	620			73
	1030-148083-0133				5000		650	76			

Linear lighting MULTIFRIO

Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT ⁽²⁾ (K)	Beam Angle	Luminous Flux ⁽³⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽⁴⁾	
	1030-172165-0130				3000		1200	100			
	1030-172065-0130			80	4000		1300	108			
	1030-172065-0132	MULTIFRIO-L72-24V	12		5000	25°	1300	108	1200	3	
	1030-172165-0131				3000		840	70			
	1030-172065-0131				90		4000	920			77
	1030-172065-0133				5000		970	81			
	1030-196121-0130						3000	1570			92
	1030-196021-0130			80	4000		1700	100			
	1030-196021-0132	MULTIFRIO-L96-24V	17		5000	25°	1700	100	1700	2	
	1030-196121-0131				3000		1100	65			
	1030-196021-0131				90		4000	1210			71
	1030-196021-0133				5000		1270	75			

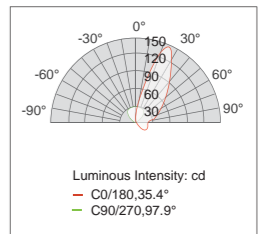
[1]: The minimum power is 93% of typical values

[2]: CCT 076: The color temperature is application on meat and fish.

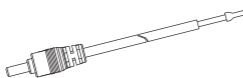
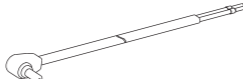
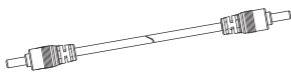

[3]: Minimum flux is 87% of typical values.

[4]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

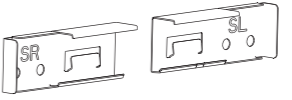
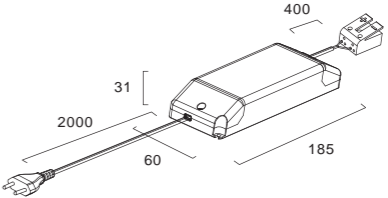
Photometrics

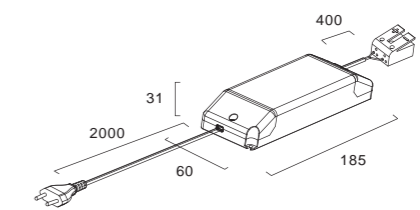


Linear lighting MULTIFRIO

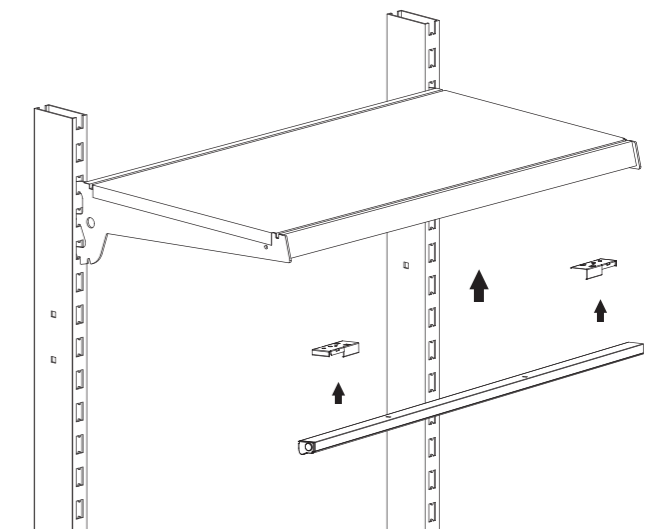
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013660-0137	 Power-in cable x1	1500	55.4
	1099-013660-0135	 Power-in cable with angle plug x1	1500	55.4
	1099-013660-0136	 Extension cable x1	50	12.5
	1099-014180-0143	 DC connector x1	22	0.9

Linear lighting MULTIFRIO

Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013660-0134	 Shelf Mounting clip x1 set	-	10
	1001-260021-0136	 Model: SLT75-24VL-E Matching driver, max. 75 W. Input: 220 - 240 VAC, 2000 mm cable + plug Output: 24 V, 400 mm cable + 1*DSG plug		
Accessories (optional)	Shelf case			

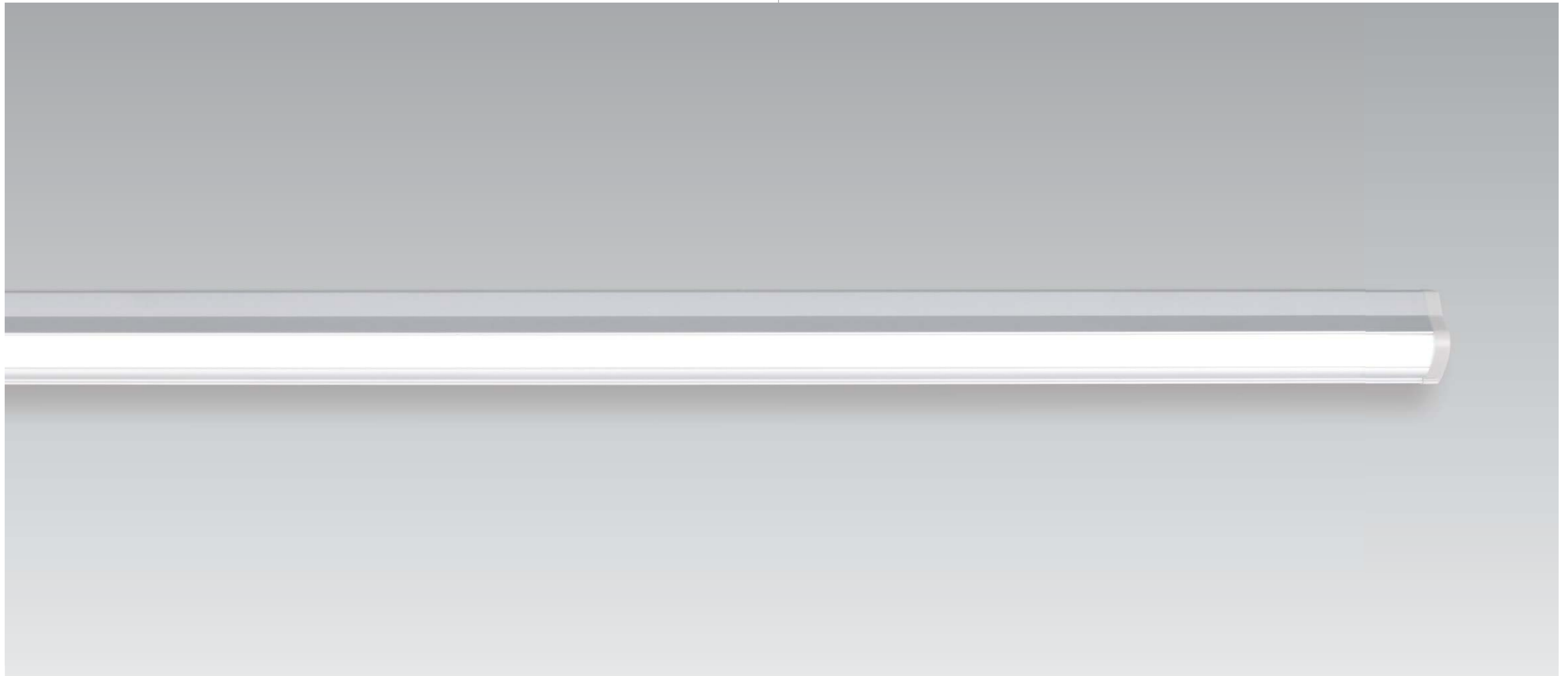


Model: SLT75-24VL-E
Matching driver, max. 75 W.
Input: 220 - 240 VAC, 2000 mm cable + plug
Output: 24 V, 400 mm cable + 1*DSG plug



* Mounting clip can be customized, suggest to install the lamp under the price tag.

Linear lighting
MULTILINEAR



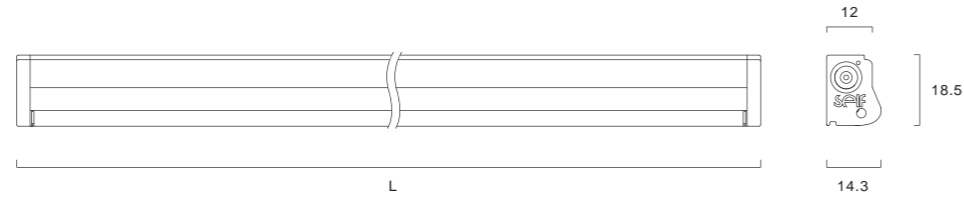
Linear lighting MULTILINEAR



- Housing: Extrusion aluminum oxidized.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI: Ra>80.
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12 hrs/day).
- Heat management: Passive.
- Input voltage: 24VDC.
- N.W. : 174/246/347 g.
- Ta: -30~35°C.
- Impact resistance: IK02.
- Protection class: IP65.



Dimensions: (mm)



Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-172169-0130	MULTILINEAR-L72-24V	3.8	80	3000	110°	360	95	600	16
	1030-172069-0130				4000		390	103		
	1030-172069-0131				5000		390	103		
	1030-172169-0131				3000		250	66		
	1030-172069-0132				4000		270	71		
	1030-172069-0133	5000	290	76						
	1030-111117-0130	MULTILINEAR-L108-24V	5.6	80	3000	110°	540	96	850	11
	1030-111017-0130				4000		590	105		
	1030-111017-0131				5000		590	105		
	1030-111117-0131				3000		380	68		
	1030-111017-0132				4000		410	73		
	1030-111017-0133	5000	430	77						
	1030-111118-0130	MULTILINEAR-L144-24V	7.5	80	3000	110°	730	97	1200	7
	1030-111018-0130				4000		780	104		
	1030-111018-0131				5000		780	104		
	1030-111118-0131				3000		510	68		
	1030-111018-0132				4000		550	73		
	1030-111018-0133	5000	580	77						

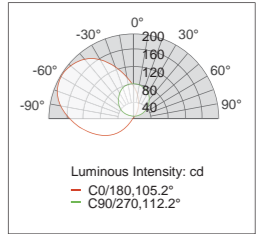
[1]: The minimum power is 85% of typical values.

[2]: The minimum flux is 80% of typical values.

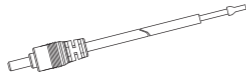

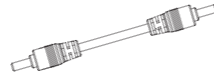

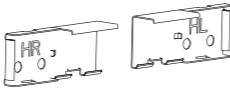
[3]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

Linear lighting MULTILINEAR

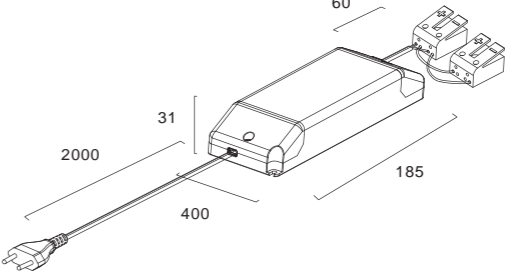
Photometrics



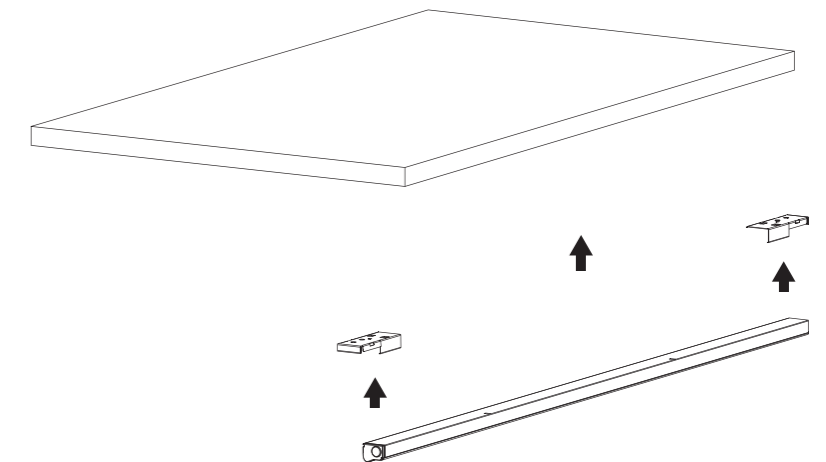
Linear lighting MULTILINEAR

Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013660-0137	 Power-in cable x1	1500	55.4
	1099-013660-0135	 Power-in cable x1	1500	55.4
	1099-013660-0136	 Soft connector x1	50	12.5
	1099-014180-0143	 DC connector x1	22	0.9
	1099-013660-0133	 Horizontal freezer Mounting clip x1 set	-	10

Linear lighting MULTILINEAR

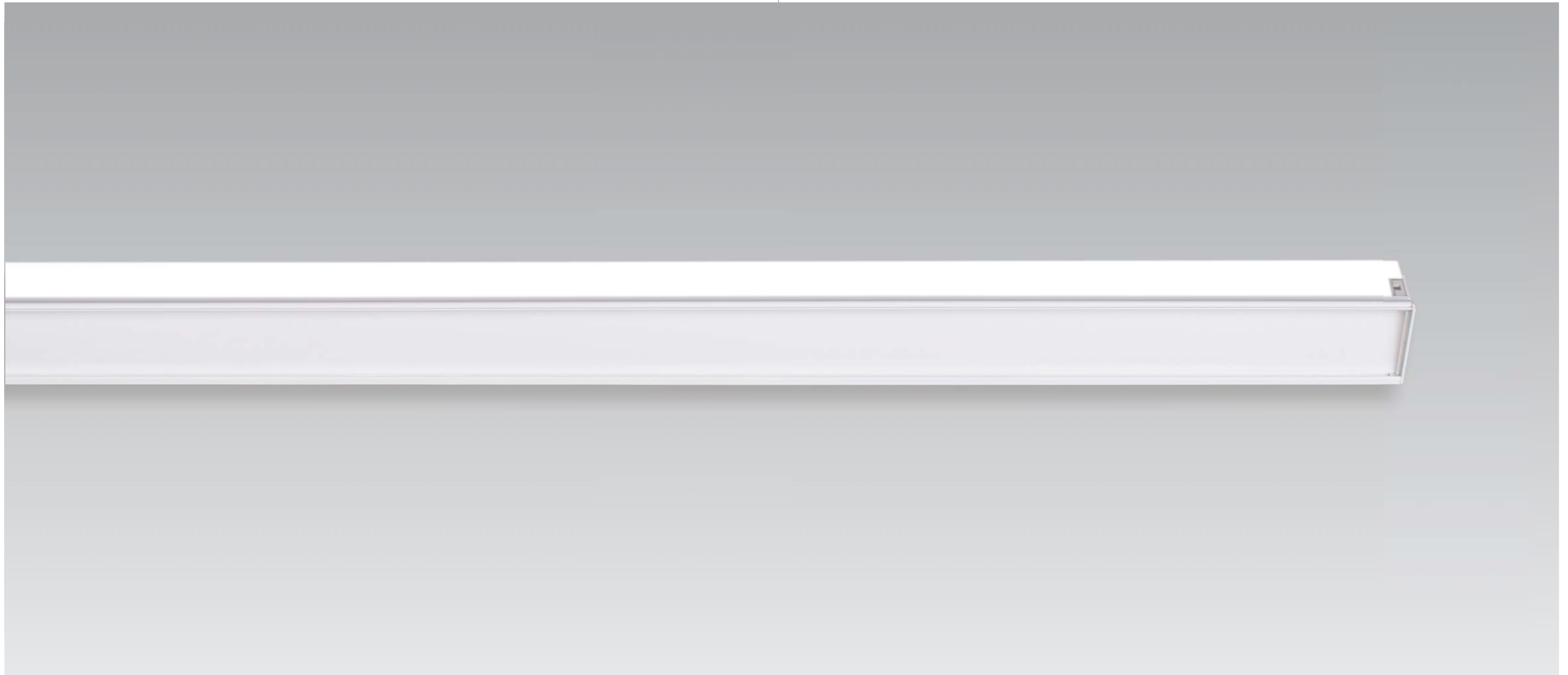
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1001-260021-0133	 Model: SLT75-24VL-E Matching driver, max. 75W. Input: 220-240VAC 2000mm cable +plug Output: 24V 400mm cable +1*DSG plug	-	420

Installation



* Mounting clip can be customized, suggest to install the lamp under the price tag.

Linear lighting
TAGLED



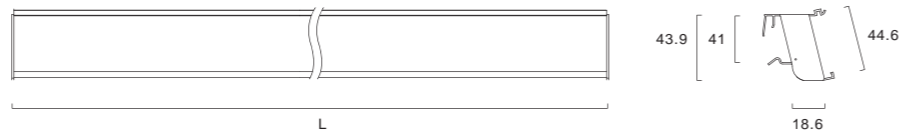
Linear lighting TAGLED



- Housing: Extrusion plastic.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI min.: 80/90.
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12hrs/day).
- Heat management: Passive.
- Input voltage: 24 VDC.
- N.W. : 95/143/290 g.
- Ta: -30~35°C.
- Impact resistance: IK02.
- Protection class: IP64.



Dimensions: (mm)



Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT ⁽²⁾ (K)	Beam Angle	Luminous Flux ⁽³⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽⁴⁾
	1030-135108-0130				3000		460	94		
	1030-135008-0130				4000		490	100		
	1030-135008-0131	TAGLED-L42-24V	4.9	80	5000	180°	490	100	650	-
	1030-135008-0134				meat color		280	57		
	1030-135108-0131				3000		320	65		
	1030-135008-0132				90	4000	340	69		
	1030-135008-0133				5000		370	76		
	1030-142113-0130				3000		690	92		
	1030-142013-0130				4000		750	100		
	1030-142013-0131	TAGLED-L63-24V	7.5	80	5000	180°	750	100	995	-
	1030-142013-0134				meat color		410	55		
	1030-142113-0131				3000		480	64		
	1030-142013-0132				90	4000	520	69		
	1030-142013-0133				5000		560	75		
	1030-184119-0130				3000		870	93		
	1030-184019-0130				4000		940	100		
	1030-184019-0131	TAGLED-L77-24V	9.4	80	5000	180°	940	100	1235	-
	1030-184019-0134				meat color		520	55		
	1030-184119-0131				3000		610	65		
	1030-184019-0132				90	4000	660	70		
	1030-184019-0133				5000		700	74		

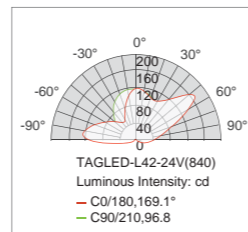
[1]: The minimum power is 84% of typical values.

[2]: CCT 076: The color temperature is applied to red meat and red fish.

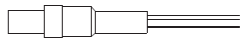
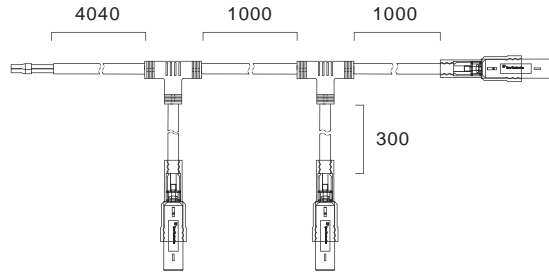
[3]: The minimum flux is 84% of typical values.

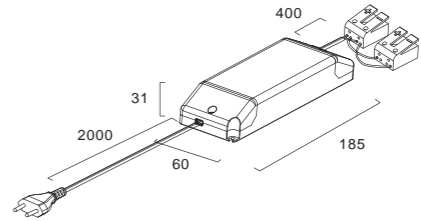
[4]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

Photometrics

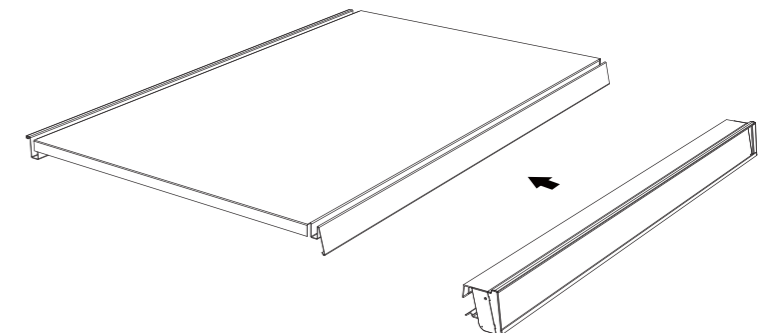


Linear lighting TAGLED

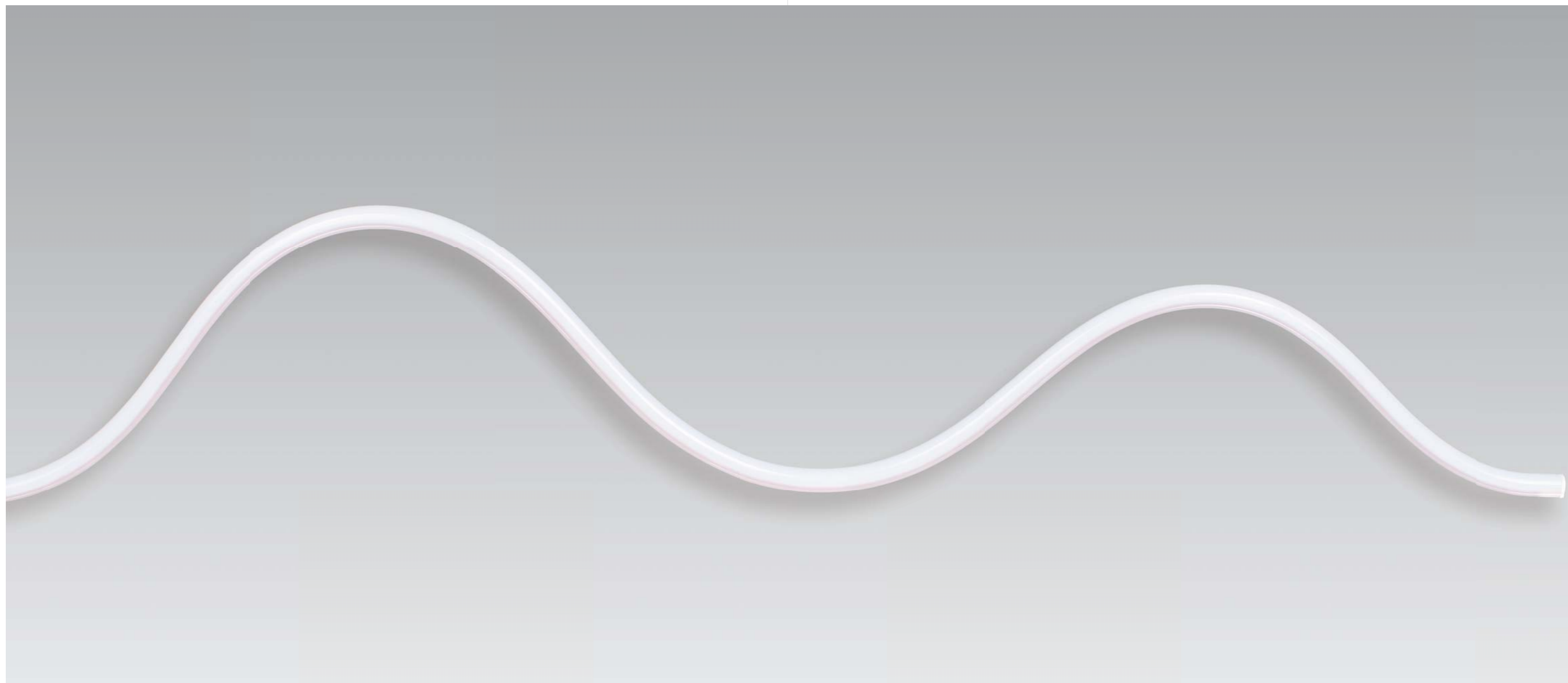
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013653-0133	 Input cable x 1	1500	55
	1099-013251-0132	 Tree input cable x 1	-	260

Accessories (optional)	Order No.	Description
	1001-260021-0133	 Input cable x 1 Model: SLT75-24VL-E Matching driver, max. 75W. Input: 220-240VAC 2000mm cable +plug Output: 24V 400mm cable +2*DSG plug

Installation



Linear lighting
LARC



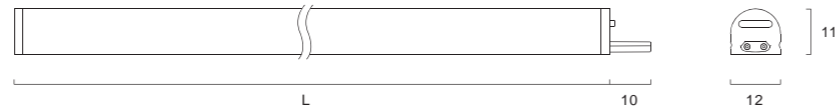
Linear lighting LARC



- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI: Ra>80.
- Chromaticity tolerance (initial MacAdam): 5 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12hrs/day).
- Heat management: Passive.
- Input voltage: 24 VDC.
- N.W. : 95/143/290 g.
- Ta: -20~35°C.
- Impact resistance: IK02.
- Protection class: IP20.



Dimensions: (mm)

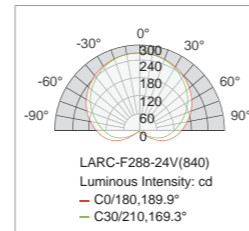


Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-648102-0130				3000		240	80		
	1030-648002-0130	LARC-F48-24V	3	80	4000	150°	245	82	335	15
	1030-648002-0131				5000		245	82		
	1030-648602-0130				Blue		-	-		
	1030-600122-0130				3000		720	80		
	1030-600022-0130	LARC-F144-24V	9	80	4000	150°	738	82	1000	5
	1030-600022-0131				5000		738	82		
	1030-600622-0130				Blue		-	-		
	1030-600123-0130				3000		1440	80		
	1030-600023-0130	LARC-F288-24V	18	80	4000	150°	1476	82	2000	2
	1030-600023-0131				5000		1476	82		
	1030-600623-0130				Blue		-	-		


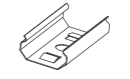
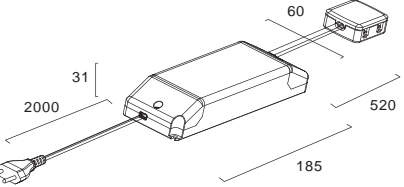
[1]: The minimum power is 84% of typical values.

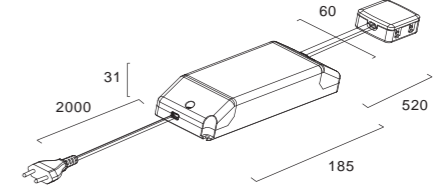
[2]: The minimum flux is 84% of typical values.

Photometrics



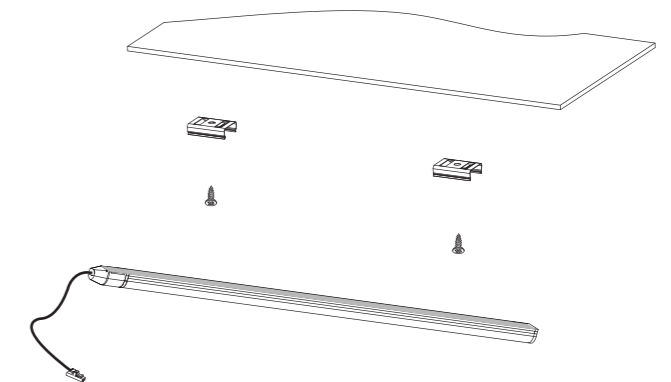
Linear lighting LARC

Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
		 Input cable X1		
	4099-013380-0130	 0° mounting clip X2	25	1
	1001-260021-0137			

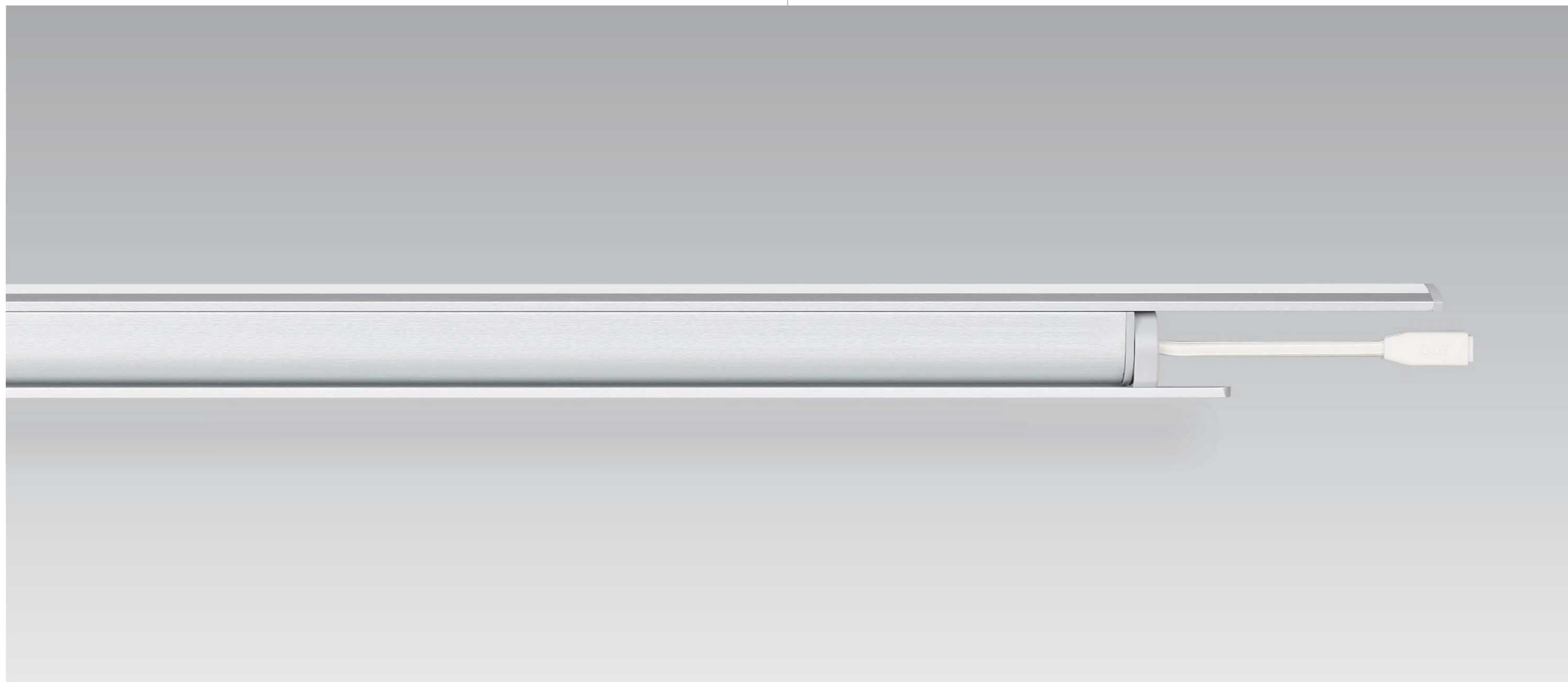


Model: SLT75-24VL-E
Matching driver, max. 75W.
Input: 220-240VAC 2000mm cable +plug
Output: 24V 530mm cable +JB-4A

Installation



Linear lighting
CREST



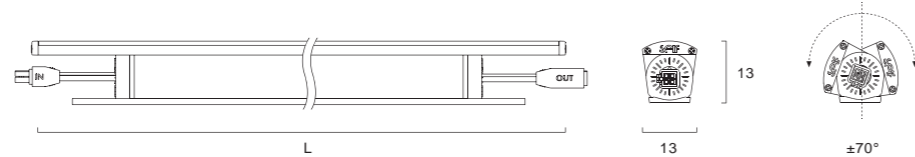
Linear lighting CREST



- Housing: Extrusion aluminum oxidized.
- Dimmable, 1-10V dimming to 10%-100%.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI: Ra>80.
- Chromaticity tolerance (initial MacAdam): 5 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12hrs/day).
- Heat management: Passive.
- Input voltage: 24 VDC.
- N.W. : 310/1123 g.
- Ta: -20~35°C.
- Impact resistance: IK02.
- Protection class: IP20.



Dimensions: (mm)



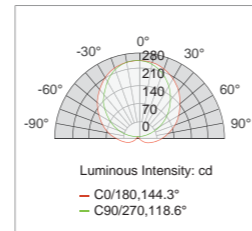
Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-312140-0134				2700		550	110		
	1030-312140-0130			80	3000		550	110		
	1030-312040-0130				4000		550	110		
	1030-312040-0131	CREST-L12-277V	5		5000	110°	550	110	300	120
	1030-312140-0132				2700		440	88		
	1030-312140-0133			90	3000		440	88		
	1030-312040-0132				4000		440	88		
	1030-148175-0134				2700		2200	110		
	1030-148175-0130			80	3000		2200	110		
	1030-148075-0130				4000		2200	110		
	1030-148075-0131	CREST-L48-277V	20		5000	110°	2200	110	1200	30
	1030-148175-0132				2700		1800	90		
	1030-148175-0133			90	3000		1800	90		
	1030-148075-0132				4000		1800	90		

[1]: The minimum power is 84% of typical values.

[2]: The minimum flux is 84% of typical values.

[3]: Based on: grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

Photometrics

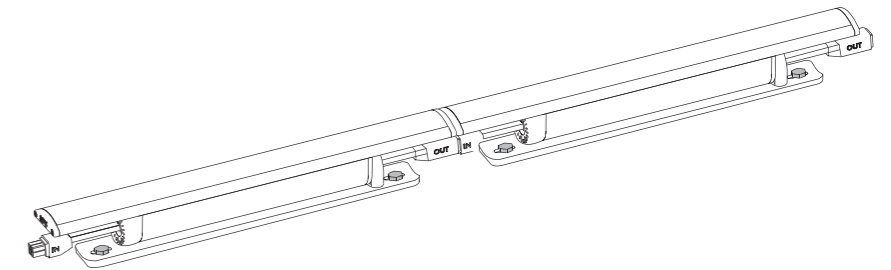


Linear lighting CREST

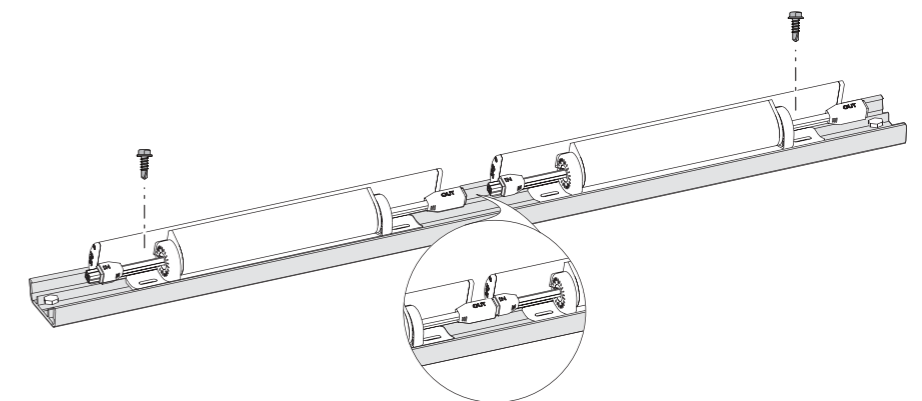
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013584-0130	Input cable X2	1500	-
	1099-013583-0130	Soft connector X2	300	-
	1099-013870-0130	track X2	2000	-

Installation

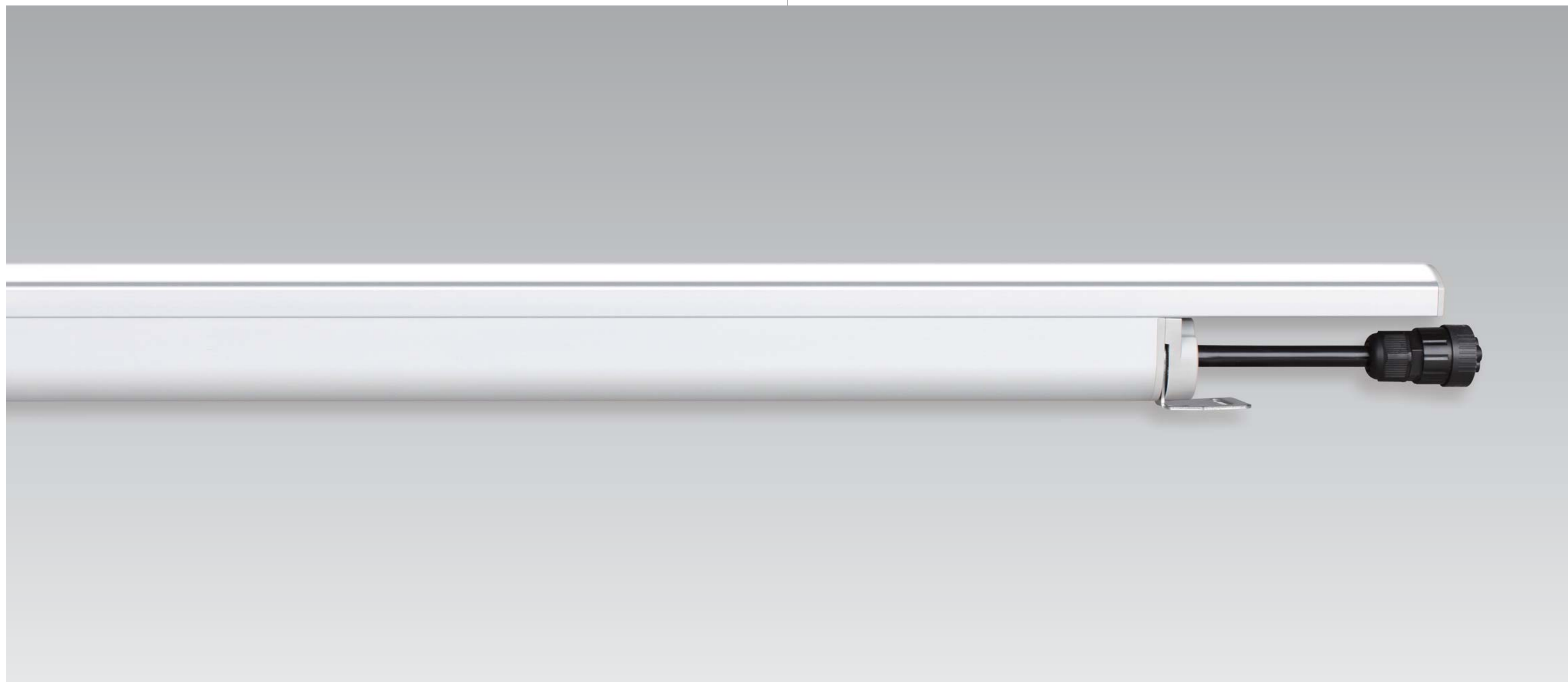
Install LED fixtures on the cove directly with screws



Install LED fixtures on the mounting track



Linear lighting
CROWN



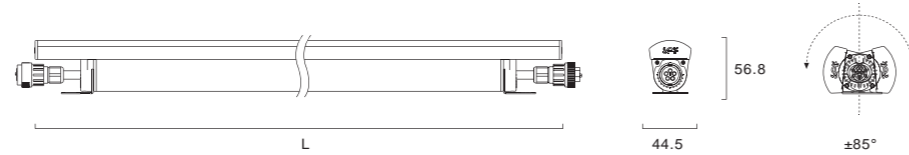
Linear lighting CROWN



- Housing: Extrusion aluminum oxidized.
- Dimmable, 1-10V dimming to 10%-100%.
- Optical cover: Extrusion plastic.
- LED parts: The highest efficacy chips, non-replaceable.
- CRI: Ra>80.
- Chromaticity tolerance (initial MacAdam): 5 SDCM.
- Lifetime: 50,000 hrs (L80, B20, Ta = 25°C, 12hrs/day).
- Heat management: Passive.
- Input voltage: 24 VDC.
- N.W. : 620/1716/2500 g.
- Ta: -20~35°C.
- Impact resistance: IK07.
- Protection class: IP66.



Dimensions: (mm)



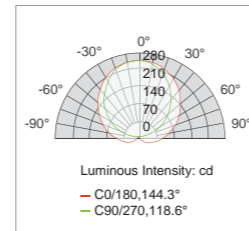
Specifications	Order No.	Model	Power ⁽¹⁾ (W)	CRI	CCT (K)	Beam Angle	Luminous Flux ⁽²⁾ (lm)	Luminaire efficacy (lm/w)	Length (mm)	Max. linkable (PCS) ⁽³⁾
	1030-100140-0130				2700		1050	105		
	1030-100140-0131	CROWN-L24-277V	10	80	3000	120°	1050	105	300	160
	1030-100040-0130				4000		1050	105		
	1030-190114-0130				2700		4200	105		
	1030-190114-0131	CROWN-L90-277V	40	80	3000	120°	4200	105	1120	40
	1030-190014-0130				4000		4200	105		
	1030-100141-0130				2700		6300	105		
	1030-100141-0131	CROWN-L144-277V	60	80	3000	120°	6300	105	1778	40
	1030-100041-0130				4000		6300	105		

[1]: The minimum power is 84% of typical values.

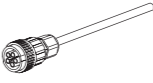
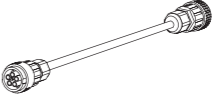
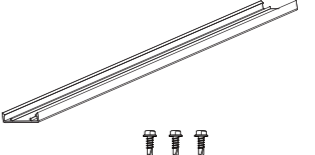
[2]: The minimum flux is 84% of typical values.

[3]: Based on grand total of luminaires Power should not exceed 80% of rated power output of LED power supply.

Photometrics

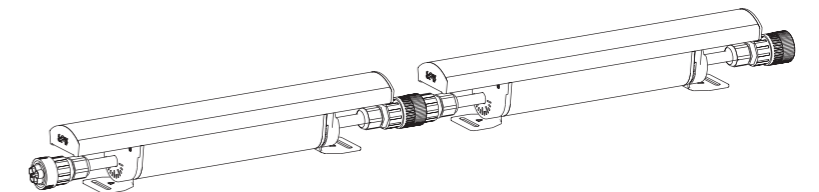


Linear lighting CROWN

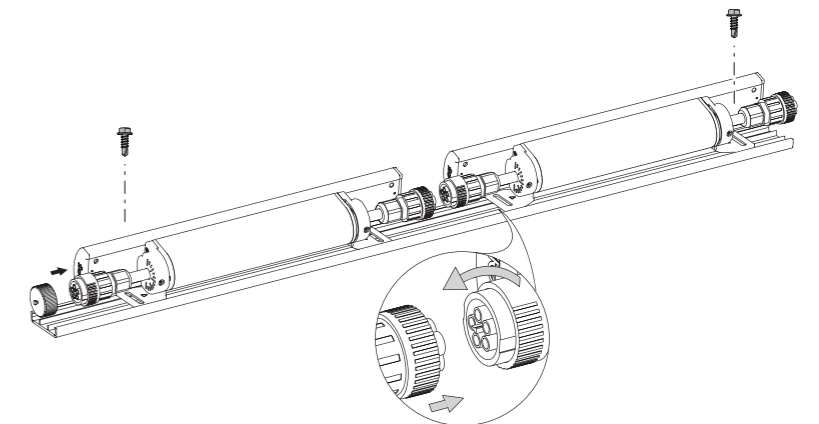
Accessories (optional)	Order No.	Description	Length (mm)	N.W. (g)
	1099-013643-0131	 Input cable X2	1500	-
	1099-013643-0132	 Soft connector X2	300	-
	1099-013870-0130	 track X2	2000	-

Installation

Install LED fixtures on the cove directly with screws



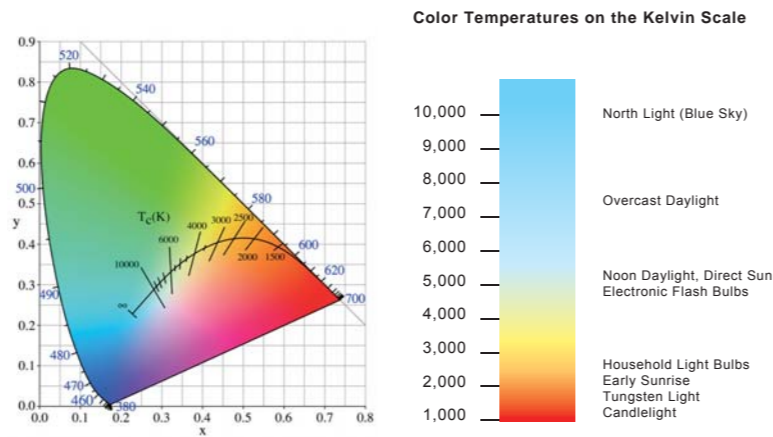
Install LED fixtures on the mounting track



Technical Information

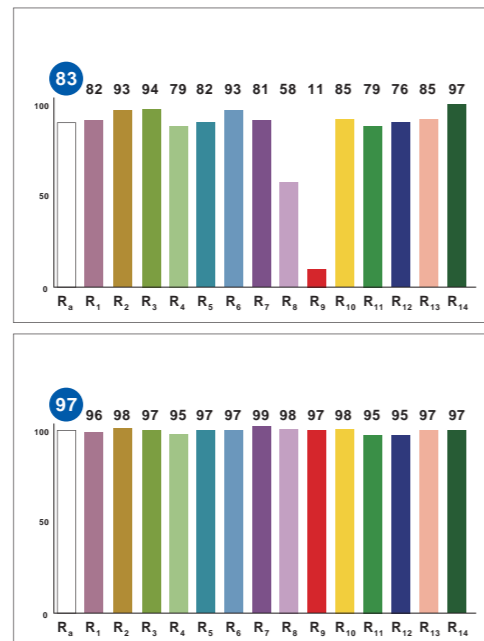
Light Color Temperature

The color temperature of a light source is the temperature of an ideal black-body radiator that radiates light of a comparable hue to that of the light source.
 The color of light is designed in kelvin (K). The lower the kelvin, the "warmer" the light - from yellow to orange to red. The higher the Kelvin, the "cooler" (bluish-looking) the light.



CRI (Color Rendering Index)

The color rendering index (CRI), sometimes called the color rendition index, is a quantitative measure of the ability of a light source to reveal the colors of various objects faithfully in comparison with an ideal or natural light source.
 The highest possible CRI is 100, for a black-body (incandescent lamps are effectively blackbodies), dropping to negative values for some light sources. Low-pressure sodium lighting has a negative CRI; fluorescent lights range from about 50 for the basic types, up to about 90 for the best tri-phosphor type. Typical LEDs have about Ra>80, although up to 95 can be achieved.



Testfarben / Test colour samples

DIN 6169

- Ra White
- R1 Light greyish red
- R2 Dark greyish yellow
- R3 Strong yellow green
- R4 Moderate yellowish green
- R5 Light bluish green
- R6 Light blue
- R7 Light violet
- R8 Light reddish purple
- R9 Strong red
- R10 Strong yellow
- R11 Strong green
- R12 Strong blue
- R13 Light yellowish pink
- R14 Moderate olive green (leaf)

Recommended values for COMMERCIAL LIGHTING

Area of application	Cool White		White		Warm White				Crisp White	Meat color
	865 6500K	850 5000K	840 4000K	940 4000K	830 3000K	930 3000K	827 2700K	927 2700K		
Retail premises									930 3000K	876
Food, general	□		■		■		■			
Bread and cakes							■	■		
Refrigerated counters, deepfreezers	■									
Cheese, fruit, vegetables			■		■		■			
Fish			■		■		■			
Meat, sausages	□									■
Textiles, leather goods	■	■		■	■	■	■	■		
Furniture, carpets					■	■	■	■		
Sporting goods, toys, stationery			■	□	■	□				
Photos, watches, jewelry	□	□	■	□	■	□				
Cosmetics, hairdressers			□	■	□	■	□	■		
Flowers	□	□	■	■		■	□			
Fashion				■		■			■	
Offices, administrative buildings										
Offices, corridors			■		■					
Meeting rooms					■		■			
Industry, trade, commerce										
Warehouses, transport depots			■							

■ First choice □ Second choice

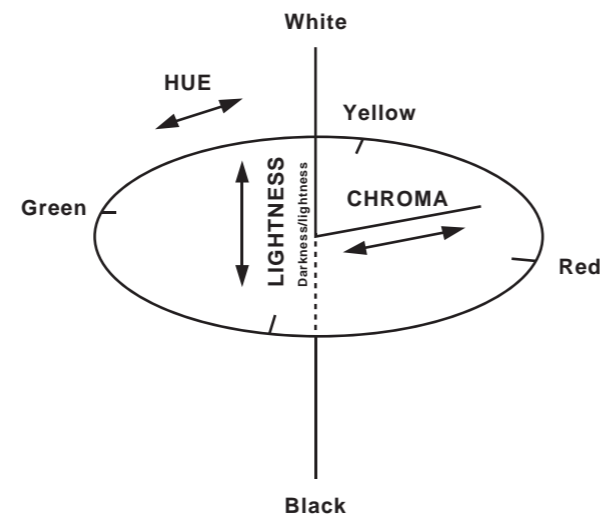
Technical Information

Average Rated Life

This means the period of operating time after which the total number of lamps which continue to operate corresponds to the lamp survival factor of the lamp under defined conditions and switching frequency. For LED lamps, lamp lifetime means the operating time between the start of their use and the moment when only 50% of the total number of lamps survive or when the average lumen maintenance of the batch falls below 70%, whichever occurs first (ex.L70F50) .

Average rated life of different lamps	
Incandescent lamp E14/E27	Approx. 1,000hrs
Low-voltage halogen lamp (no name)	500~2,000hrs
Low-voltage halogen lamp (brand product)	2,000~4,000hrs
Fluorescent lamp T5 (6~13W)	Approx. 7,000hrs
Fluorescent lamp T8	13,000~20,000hrs
Energy-saving lamp	4,000~19,000hrs
Fluorescent lamp T5 HO	Approx. 24,000hrs
LED (depending on brand of LED chip, LED driver, cooling...)	10,000~100,000hrs & up

Color Difference



There are three parameters that can define the color difference: hue, lightness, chroma. Hue is the most important one, .g. say yellow or green. The second is lightness and the last parameter is chroma.

UGR (Unified glare rating)

The unified glare rating (UGR) is a measure of the glare in a given environment, proposed by Sorensen in 1987 and adopted by the International Commission on Illumination (CIE). It is basically the logarithm of the glare of all visible lamps, divided by the background luminance L_b .

$$UGR = 8 \log \frac{0.25}{L_b} \sum_n (L_n^2 \frac{w_n}{p_n^2})$$

where \log is the common logarithm (base 10), L_n is the luminance of each light source numbered n , w_n is the solid angle of the light source seen from the observer and p_n is the Guth position index, which depends on the distance from the line of sight of the viewer.

European Standard EN 12464 regulates the lighting of indoor workplaces. In doing so, the unified glare rating method is used to evaluate (psychological) glare.

UGR limits (UGRL) that must not be exceeded:

- ≤ 16 Technical drawing.
- ≤ 19 Reading, writing, training, meetings, computer-based work.
- ≤ 22 Craft and light industries.
- ≤ 25 Heavy industry.
- ≤ 28 Railway platforms, foyers.

Think Life Enjoy Light

SELF Electronics Germany GmbH

August-Horch-Str. 7,51149 Cologne
Phone: +492203-18501-0
Fax: 492203-18501-199
E-mail: saleseu@self-electronics.com

SELF Electronics USA Corporation

3264 Saturn Ct, Peachtree Corners, GA 30092
Phone: +1-770-248-9023
Fax: +1-770-248-9028
E-mail: salesus@self-electronics.com

SELF Electronics Co.,Ltd.(Headquarters)

Add: No. 1345 JuXian Road,Ningbo Hi Tech Park, Ningbo,China 315103
Phone: +86-574-2880-5765, +86-574-2880-5658 (for English assistance)
+86-574-2880-5678 (for Chinese assistance)
Fax: +86-574-28805656
E-mail: sales@self-electronics.com
<http://www.self-electronics.com>

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