



LIGHTING
TECHNOLOGY & CONTROL

DAINTREE-SERIES

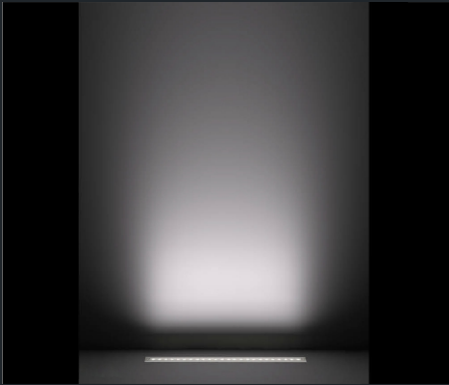
**LED Inground Linear Light-
IP67 RECESSED**





Draintree series- LED Inground Linear Light

Linear Up Light / Wall Washing Light



Narrow Spot

Round beam angle narrower than 10°



Spot

Round beam angle between 10° ~ 20°



Flood

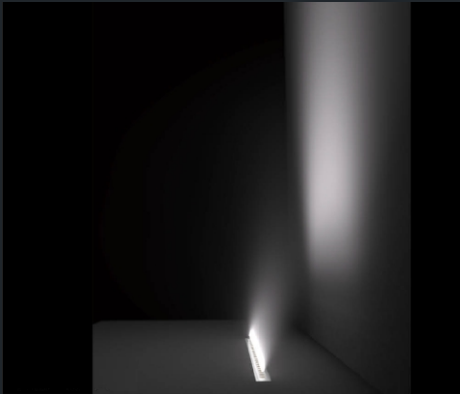
Round beam angle between 25° ~ 35°



Wide Flood

Round beam angle larger than 45°

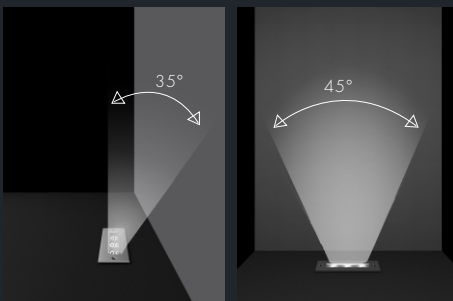
Oval Flood Light/ Wall Washing Light



Oval Flood

Oval beam angle approx. 10° x 60°, 20° x 40°
20° x 45°, 20° x 60° or others

Asymmetrical Light / Grazing Light



Impression Drawing of Asymmetrical Lens 45°|35°



Wall Washing

Asymmetrical lens 45° | 35°



Asymmetrical lens 45°|35°

Linear Inground Luminaires – Light Effect and Planning Aid:

Luminaires Type&Technology

Linear Uplights /Wallwashers

Narrow Spot, Spot, Flood, Wide Flood, Oval Flood

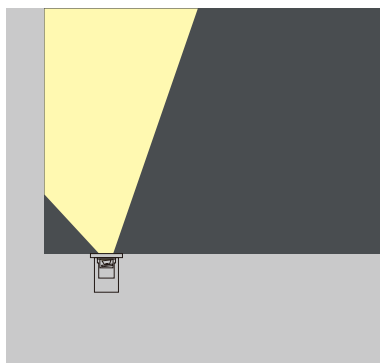
Symmetrical light distribution with narrow to very wide beam options for façade lighting.

Designed with asymmetrical light distribution for exceptionally uniform wall washing.

Note:

The light source is preset at a tilt angle of 5°–10° in the factory. Alternatively, a directional and tiltable version is available with an adjustable angle of $\pm 15^\circ$. Please refer to the specific product version for details.

Light Tool



Light Distribution



Narrow Spot

Round beam angle narrower than 10°



Spot

Round beam angle between $10^\circ \sim 20^\circ$



Flood

Round beam angle between $25^\circ \sim 35^\circ$



Wide Flood

Round beam angle larger than 45°

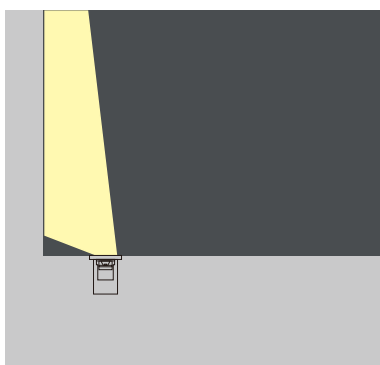


Oval Flood

Oval beam angle approx. $10^\circ \times 60^\circ$ or others

Grazing light wallwashers

Asymmetrical light distribution designed to enhance façade details and deliver highly uniform wall washing.



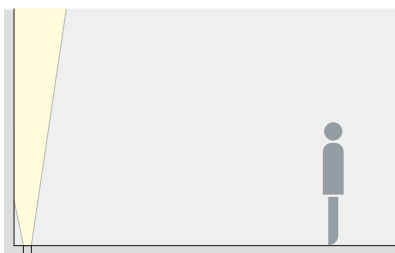
Asymmetrical Light Output

Asymmetrical | len 45° | 35°



Linear Inground Luminaires – Luminaire Arrangement:**Linear Up Lights/ Wall Washers**

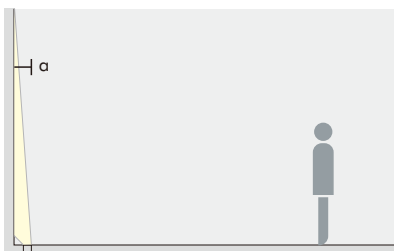
Linear uplighting

**Linear Up Lighting**

Available with symmetrical linear or asymmetrical linear oval light distribution, ideal for illuminating façades and cantilever roofs.

Grazing light wallwashers

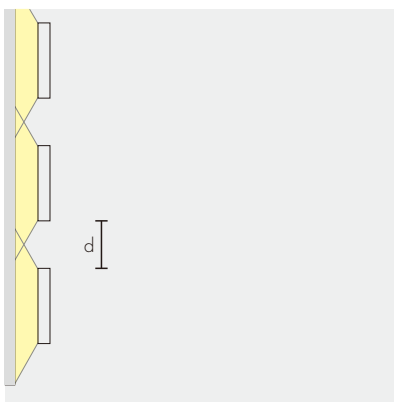
Grazing light

**Wall Washing**

To highlight surface textures, the distance (a) of site-grazing wallwashers from the wall should be approximately 30cm.

Arrangement: $a = 30\text{cm}$

Application: surfaces with a three-dimensional texture, e.g. natural stone walls.



For good longitudinal uniformity, the spacing (d) of two Site grazing light wallwashers may be up to 1m.

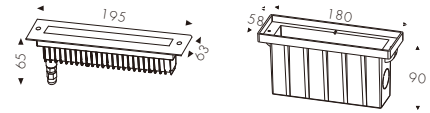
Arrangement: $d \leq 1\text{m}$

The optimal wall offset and luminaire spacing for each product, please inquire separately.

Model No.: 12FL | 6W/9W | Recessed Linear Inground Wall Washer Light



Units:mm



Mounting Sleeve

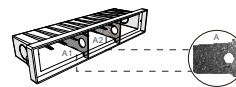
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FL-103	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	3x2W CREE or OSRAM LED	Symmetrical lens: 8°, 12°, 25°, 40°, 60°;	24VDC 220/240VAC	6.3	Cool White=510 Warm White=423	08
12FL-103	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	3x2W CREE or OSRAM LED	Asymmetrical lens: 45° 35°	24VDC 220/240VAC	6.3	Cool White=409 Warm White=340	08
12FL-303	ON/OFF, PWM	RGB Full Color	3x2.5W RGB 3-in-1 LED	Symmetrical lens: 25°, 40°, 60°	24VDC	7.8	180	08

Note: 2200K and RGBW 4-in-1 Full color version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3250KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(Included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



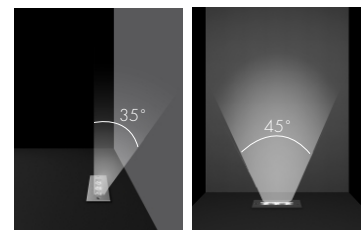
- The left picture-"A" is the support plate used for "mounting sleeve" during the construction installation process to prevent deformation of the mounting sleeve.
- The loading way is as A1, A2.
- L195mm version need 1 piece & L328mm version need 2 pcs for support.
- Please remove the support plate (A1&A2) from the "mounting sleeve" before installation of fitting.



Symmetrical lens



Asymmetrical lens 45°|35°



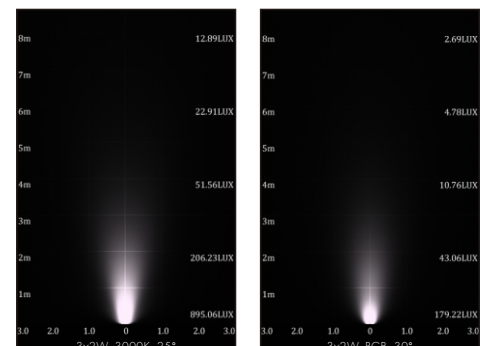
Impression drawing of Asymmetrical lens 45° | 35°

Optional Accessories



Honeycomb Louvre 12FL-03-A1

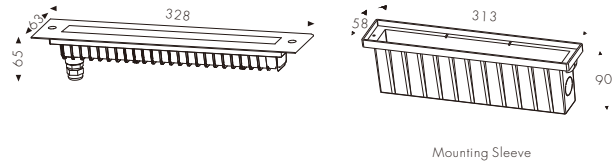
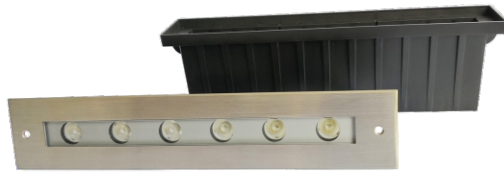
For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort

External LED driver
(110-240VAC version)

Model No.: 12FL | 12W/18W | Recessed LED Inground Linear Light



Units:mm



Mounting Sleeve

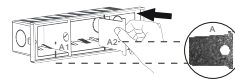
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FL-106	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	Symmetrical lens: 8°, 12°, 25°, 40°, 60°;	24VDC 220/240VAC	12	Cool White=900 Warm White=747	08
12FL-106	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	Asymmetrical lens: 45° 35°	24VDC 220/240VAC	12	Cool White=816 Warm White=678	08
12FL-306	ON/OFF, PWM	RGB Full Color	6x3W RGB 3-in-1 LED	Symmetrical lens: 25°, 40°, 60°	24VDC	18	368	08

Note: 2200K and RGBW 4-in-1 Full color version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3250KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(Included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



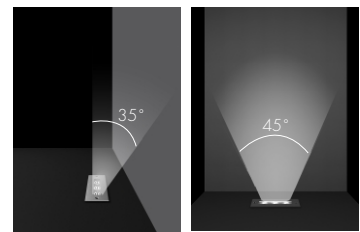
- The left picture-"A" is the support plate used for "mounting sleeve" during the construction installation process to prevent deformation of the mounting sleeve.
- The loading way is as A1, A2.
- L195mm version need 1 piece & L328mm version need 2pcs for support.
- Please remove the support plate (A1 & A2) from the "mounting sleeve" before installation of fitting.



Symmetrical lens

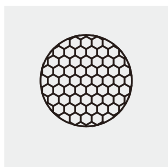


Asymmetrical lens 45°|35°



Impression drawing of Asymmetrical lens 45° | 35°

Optional Accessories



Honeycomb Louvre | 12FL-06-A1

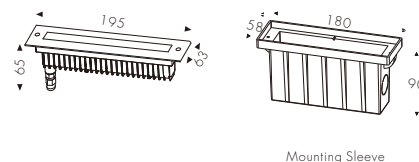
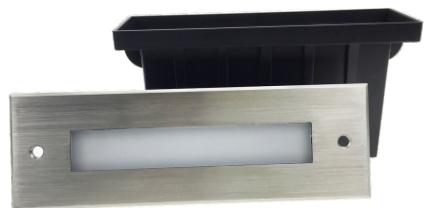
For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort

Internal LED driver
(Low voltage 24VDC version)External LED driver
(110-240VAC version)

Model No.: 12FL | 2.4~3W | Soft Beam Recessed Inground Linear Light



Units:mm



Mounting Sleeve

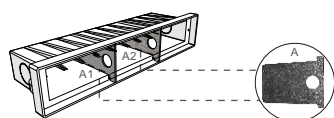
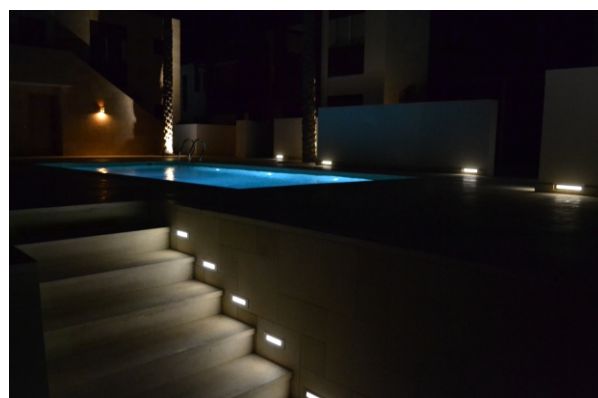
Electrical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FL-110	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	10x Osram 2835 or 5050 SMD LED	120°	24VDC 120/240VAC	24V=2.4 120V=3.7 240V=3.7	Cool White=24 Warm White=19	08
12FL-310	ON/OFF, PWM, DMX512	RGB Full Color	10xSMD 5050 RGB3-in-1 LED	120°	24VDC	2.7	6	08

Note: RGBW 4-in-1 Full color version is available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Print Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3250KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(Included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



- The right picture-"A" is the support plate used for "mounting sleeve" during the construction installation process to prevent deformation of the mounting sleeve.
- The loading way is as A1, A2.
- L195mm version need 1 piece & L328mm version need 2 pcs for support.
- Please remove the support plate (A1 & A2) from the "mounting sleeve" before installation of fitting.



High voltage type



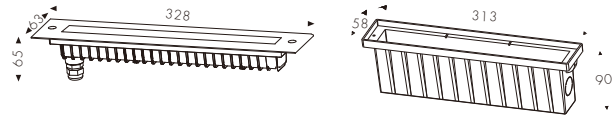
Low voltage type



ABS Mounting sleeve

Model No.: 12FL | 4.8W/7.4W | Soft Beam LED Inground Linear Light

Units:mm



Mounting Sleeve

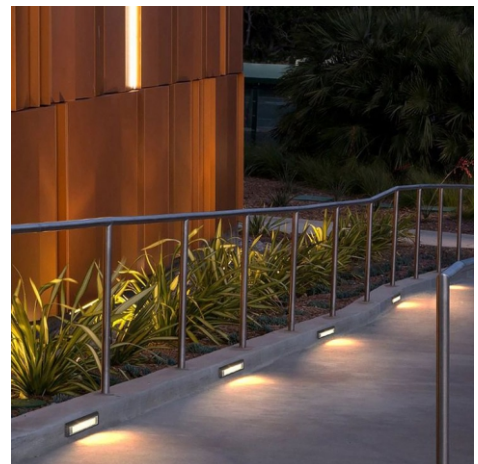
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FL-120	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	20x Osram 2835 or 5050 SMD LED	120°	24VDC 120/240VAC	24V=4.8 120V=7.4 240V=7.4	Cool White=48 Warm White=38	08
12FL-320	ON/OFF, PWM, DMX512	RGB Full Color	20xSMD 5050 RGB3-in-1 LED	120°	24VDC	4.8	12	08

Note: RGBW 4-in-1 Full color is available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Print Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3250KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(Included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



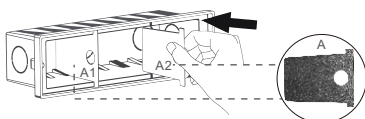
High voltage type



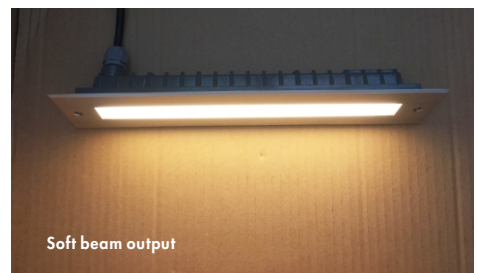
Low voltage type



ABS Mounting sleeve



- The left picture-"A" is the support plate used for "mounting sleeve" during the construction installation process to prevent deformation of the mounting sleeve.
- The loading way is as A1, A2.
- L195mm version need 1 piece & L328mm version need 2 pcs for support.
- Please remove the support plate (A1 & A2) from the "mounting sleeve" before installation of fitting.

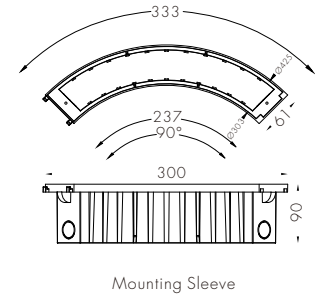
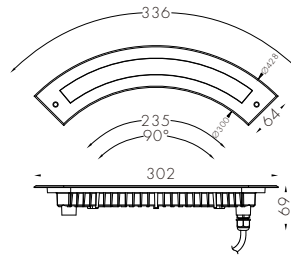


Soft beam output

Model No.: 12FR | 12W/18W | Curved Shaped Recessed Inground Light



Units:mm



Mounting Sleeve

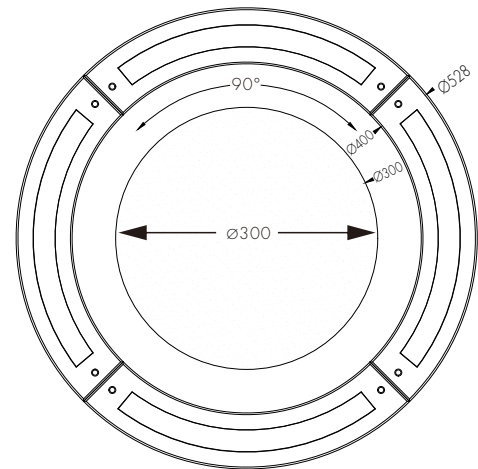
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FR-106	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	8°, 12°, 25°, 40°, 60°;	24VDC 220/240VAC	12	Cool White=900 Warm White=747	08
12FR-306	ON/OFF, PWM, DMX512	RGB Full Color	6x2.5W RGB 3-in-1 LED	12°, 25°, 40°, 60°	24VDC	17	395	08
12FR-406	ON/OFF, PWM, DMX512	RGBW Full Color	6x3.5W RGBW 4-in-1 LED	12°, 25°, 40°, 60°	24VDC	24	678	08

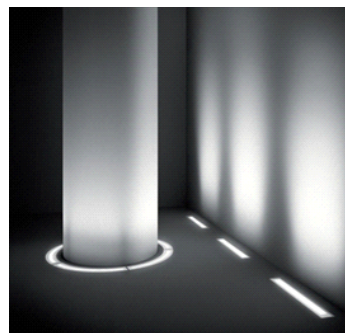
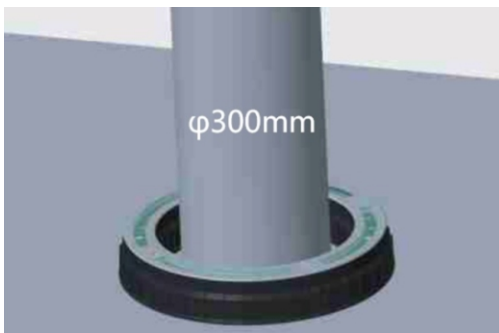
Note: 2200K and RGBW 4-in-1 Full color version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear (or white print/frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2985KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve (included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

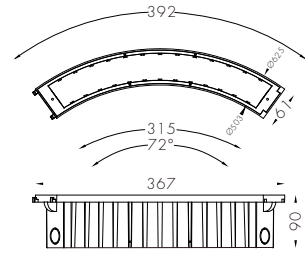
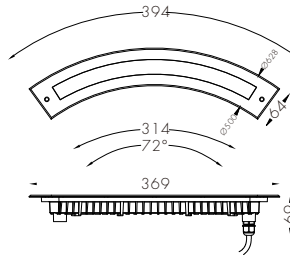


Installation Demo



Model No.: 12FR | 18W/27W | Curved Shaped Recessed Inground Light

Units:mm



Mounting Sleeve

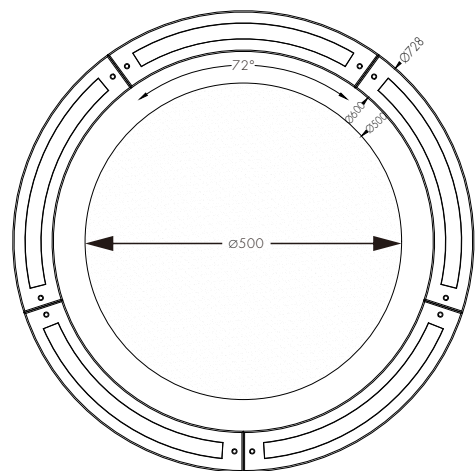
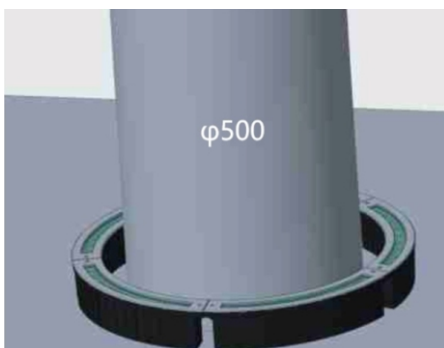
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12FR-109	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	9x2W CREE or OSRAM LED	8°, 12°, 25°, 40°, 60°	24VDC 220/240VAC	12	Cool White=900 Warm White=747	08
12FR-309	ON/OFF, PWM, DMX512	RGB Full Color	9x2.5W RGB 3-in-1 LED	12°, 25°, 40°, 60°	24VDC	17	395	08
12FR-409	ON/OFF, PWM, DMX512	RGBW Full Color	9x3.5W RGBW 4-in-1 LED	12°, 25°, 40°, 60°	24VDC	24	678	08

Note: 2200K and RGBW 4-in-1 Full color version are available upon request.

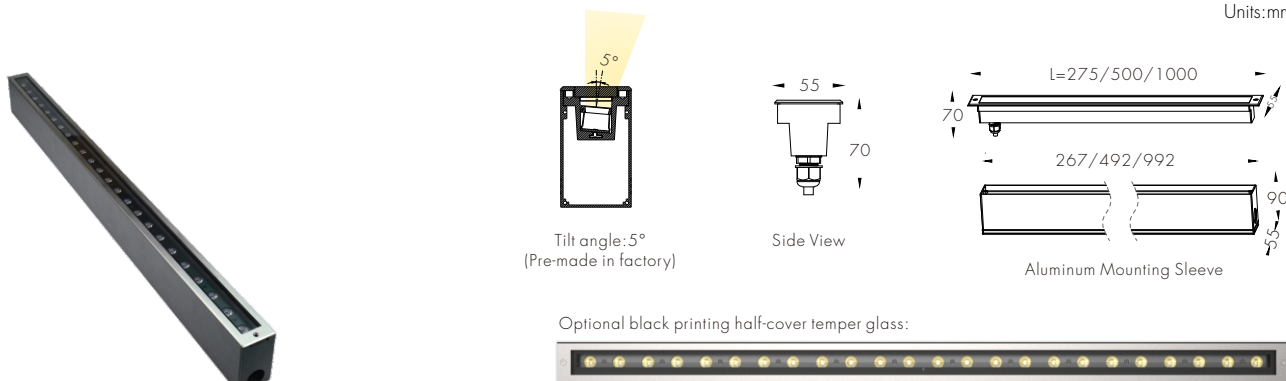
Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear (or white print/frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2985KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve (included):	ABS
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

**Installation Demo**

Model No.: 12RA | 46W/60W/72W(1m) | Recessed Inground Linear Wall Washer

Units:mm

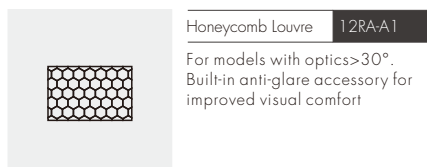
**Technical Specifications**

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12RA-106	275	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	12	Cool White=865 Warm White=716	10
12RA-112	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	24	Cool White=1728 Warm White=1434	10
12RA-124	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	24x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	48	Cool White=3360 Warm White=2788	10
12RA-324	1000	ON/OFF, PWM, DMX512	RGB Full Color	24x2.5W RGB 3-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	60	1300	10
12RA-424	1000	ON/OFF, PWM, DMX512	RGBW Full Color	24x3.5W RGBW 4-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72W	1980	10

Note: Color temperature 2200K, or linear light with 18x4W LEDs per meter with ultra small beam angle 3° and 8° are available.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1 / ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear (or White print/Frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3585KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	Aluminum
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

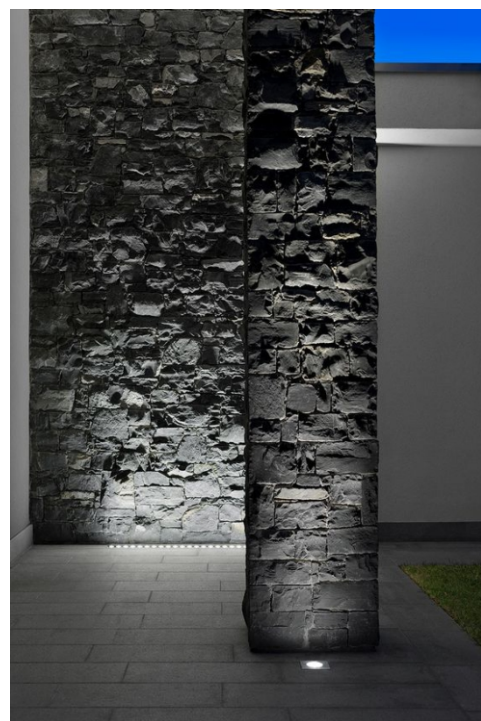
Optional Accessory

Honeycomb Louvre 12RA-A1

For models with optics>30°. Built-in anti-glare accessory for improved visual comfort

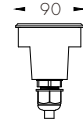
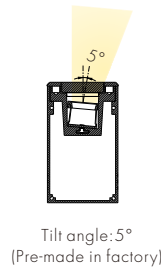


Different optical lens, diffuser (e.g.: half cover, white print, frosted), grille or others are available upon request.

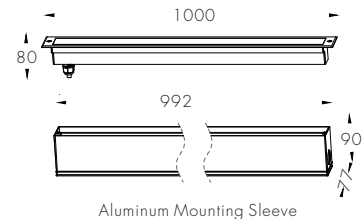


Model No.: 12RC | 72W/82W (1m) | Curved Shaped LED Inground Light

Units:mm



Side View



Aluminum Mounting Sleeve

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12RC-106	300	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	17	Cool White=1160 Warm White=963	10
12RC-112	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	33	Cool White=2310 Warm White=1917	10
12RC-124	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	24x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72	Cool White=5040 Warm White=4183	10
12RC-324	1000	ON/OFF, PWM, DMX512	RGB Full Color	24x3W RGB 3-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72	1800	10
12RC-424	1000	ON/OFF, PWM, DMX512	RGBW Full Color	24x4W RGBW 4-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	82W	2625	10

Note: Color temperature 2200K, or linear light with 18x4W LEDs per meter with ultra small beam angle 3° and 8° are available.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear (or White print/Frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3881KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	Aluminum
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

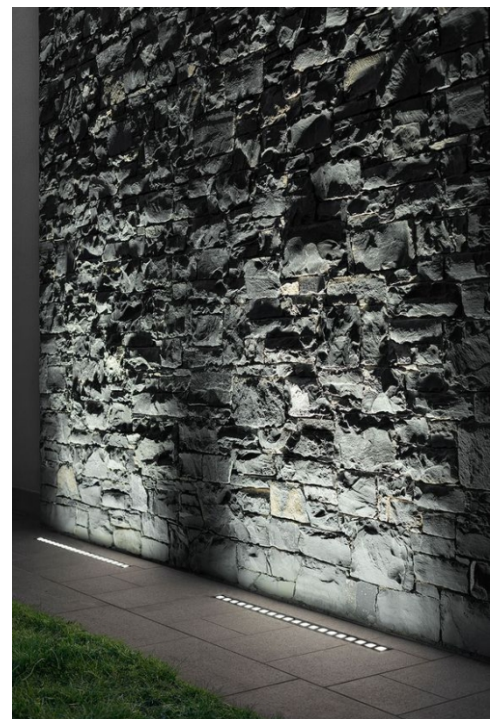
Optional Accessory

Honeycomb Louvre O2RC-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



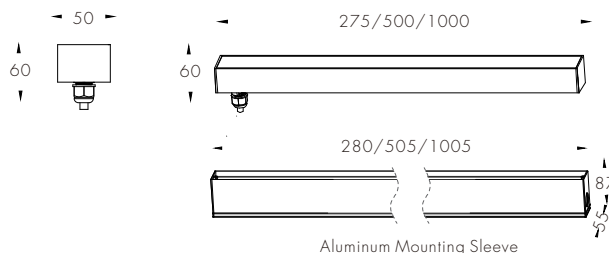
Different optical lens, diffuser(e.g.: half cover, white print, frosted), grille or others are available upon request.



Model No.: 12TA | 48W/60W/72W(1m) | Trimless Inground Linear Wall Washer



Units:mm



Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12TA-106	275	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	12	Cool White=865 Warm White=716	10
12TA-112	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	24	Cool White=1728 Warm White=1434	10
12TA-124	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	24x2W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	48	Cool White=3360 Warm White=2788	10
12TA-324	1000	ON/OFF, PWM, DMX512	RGB Full Color	24x2.5W RGB 3-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	60	1300	10
12TA-424	1000	ON/OFF, PWM, DMX512	RGBW Full Color	24x3.5W RGBW 4-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72W	1980	10

Note: Color temperature 2200K, or linear light with 18x4W LEDs per meter with ultra small beam angle 3° and 8° are available.

Material Specifications

Housing and Front Cover:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Light Window:	Clear (or white print/frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3585KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve (included):	Aluminum
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Accessory



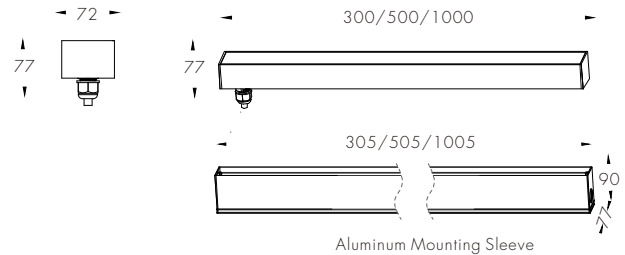
Honeycomb Louvre 12TA-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Model No.: TL2408 | 72W/82W(1m) | Trimless Inground Linear Wall Washer

Units:mm



Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12TB-106	300	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	17	Cool White=1160 Warm White=963	10
12TB-112	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	33	Warm White=1917	10
12TB-124	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	24x3W CREE or OSRAM LED	10°, 15°, 25°, 38°, 60°, 10x15°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72	Cool White=5040 Warm White=4183	10
12TB-324	1000	ON/OFF, PWM, DMX512	RGB Full Color	24x3W RGB 3-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	72	1800	10
12TB-424	1000	ON/OFF, PWM, DMX512	RGBW Full Color	24x4W RGBW 4-in-1 LED	25°, 38°, 60°, 10x30°, 10x45°, 10x60°	24VDC, 220/240VAC	82W	2625	10

Note: Color temperature 2200K, or linear light with 18x4W LEDs per meter with ultra small beam angle 3° and 8° are available.

Material Specifications

Housing and Front Cover:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Light Window:	Clear (or white print/frosted) Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3881KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral or External LED Driver with Constant Current Output, Constant voltage DC24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve (included):	Aluminum
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Accessory



Honeycomb Louvre 12TB-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort

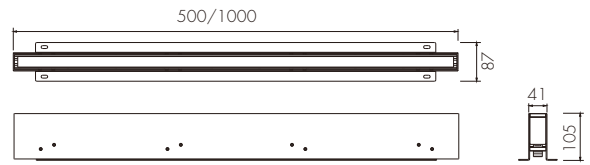
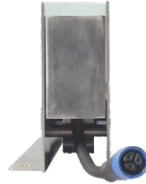


Soft and Endless In-ground Light Lines to Lead the Way



Model No.: 12LS | 6W/12W | 316L# Stainless Steel Frame-less In-ground Linear Light**PROLINEAR**

Units:mm

**Features:**

Seamless Lines of Homogeneous Light

Technical Specifications

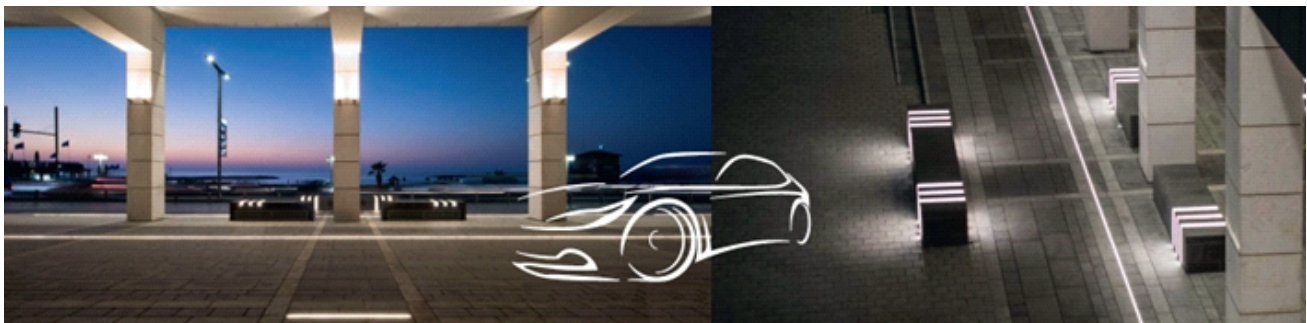
Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12LS-124	500	ON/OFF, PWM, DMX512	Single Color	24x0.25W CREE or OSRAM LED	110°	24VDC	6	Cool White=420 Warm White=360	10
12LS-424	500	ON/OFF, PWM, DMX512	RGBW	24x0.25W CREE or OSRAM LED	110°	24VDC	6	59	10
12LS-148	1000	ON/OFF, PWM, DMX512	Single Color	48x0.25W CREE or OSRAM LED	110°	24VDC	12	Cool White=840 Warm White=720	10
12LS-448	1000	ON/OFF, PWM, DMX512	RGBW Full Color	48x0.25W RGBW 4-in-1 LED	110°	24VDC	12	116	10

Notes:

1. RGB color is available;
2. Linear light with 60x0.3W SMD LEDs and 18W per meter is available.
3. Linear light is with optional translucent temper glass with an internal 10°, 30°, 45°, 60° optical lenses for wall grazing.
4. Specifications are subjected to change without notice.

Material Specifications

Housing:	SUS 316L# Stainless Steel
Light Window:	White Print (or Frosted) Step Tempered Glass, T=1.5mm
Glass Pressure Capacity:	Full Area>5000KG
LED:	Type: SMD LED, Brands: OSRAM, CREE, LUMILEDS and etc.
Heat Sink:	Built-in linear aluminum heat sink for effective heat dissipation
Driver (Not included):	Remote LED driver with 24VDC output is required
Operating Temperature:	-30°C~+50°C
Power Cable:	H05RN-F 2x1.0mm² to IP67 Connectors, L=0.3m(Single Color)
Mounting Sleeve(included):	SUS 316L# Stainless Steel
Installation:	Recessed flush mounted

Optional Mounting Sleeve(Non-standard Version)

Installing homogeneous in-ground light lines in areas with frequent pedestrian and vehicle traffic requires high robustness. PROLINEAR is vehicle-loadable, making it suitable for squares, streets, pathways, and roads. Its housing is constructed entirely from SUS 316L stainless steel, ensuring excellent durability and long-term performance.



PTC: 1634,70

BREXIT

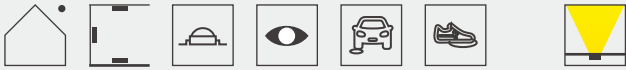


Т А









IP67 LED Linear Lights

LUMINAIRE:

- PMMA linear light and aluminum mounting profile
- PMMA one-time extrusion LED linear profile, length up to 3meters max
- Frameless design for 2-end of luminaire enables seamless splice installation of numerous fixtures possible
- Completely homogenous light distribution
- The 2 ends of Linear luminaire delivered with male/female IP67 connectors
- Can be walked over and driven over at maximum speed 20 km/h
- Maximum stand weight: 30kN
- Optional light color: single, tunable white, RGB, RGBW
- Fully PWM, 0/1-10V, DALI dimmable , or SPI or DMX512 control support
- IP67 and IK10 for both indoor and outdoor applications.
- Max 100W per run.
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

- Milky white (opal white) PMMA diffuser
- High quality and homogeneous light over entire emission surface and dots free
- Visual comfort soft beam output
- Seamless Lines of Homogeneous Light

ENTRY CABLE WAY:

- Bottom Entry Cable
- Direct end entry cable
- Side entry cable

INSTALLATION :

- Underground/ Wall/ Ceiling Recessed mount, or surface mount
- Frameless design for 2-end of luminaire enables seamless splice installation of numerous fixtures possible

IMPORTANT NOTE:

- When the linear light is used as outdoor recessed underground light, please make sure to Lay a layer with thickness>20cm or much deeper water-seepage sand or gravel in or under the mounting groove as a drainage system before installing the linear luminaire.



FEATURES:

Frameless design at both ends of the luminaire enables seamless splicing of multiple fixtures.

High-quality, homogeneous light across the entire emission surface, free of hot spots or dots.

Seamless lines of uniform light with visually comfortable, soft beam output.

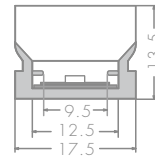




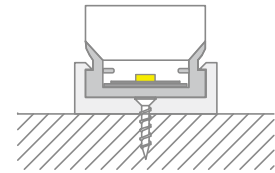
Model No.: PA15 | 5W(0.5m)/10W (1m) | IP67 Frameless LED Linear Light



Units:mm



Length: 3meters max/unit



Surface Mount

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (lm)	IK Rate
PA15-1-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	5	Cool White=305 Warm White=244	10
PA15-1-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=488	10

Notes:

- Light colour or CCT (K): 2200K, 2400k, 2700k, 3000k, 3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB and etc.,
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA Profile, Length≤3Meters
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Channel:	Please view detail in model CL2410U, CL2410H, CL2410T
Installation Ways:	Surface Mount, or Recessed Mount (by Aluminum Profile)

Features:

Delivers high-quality, uniform illumination across the entire emission surface, with a dot-free appearance.

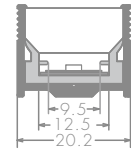
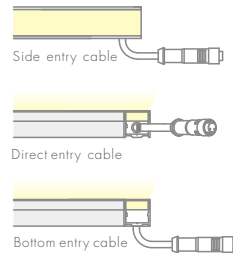
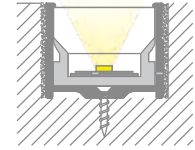
Ideal for indoor and outdoor decorative linear lighting.

Optional Accessories

 PMMA Profile PA15-A1 PMMA one-time extrusion profile Size: W17.5xH13.5mm Length: 0.5m, 1m, 2m, & 3m max, and customized made length is available upon request	 Aluminum Plate PA15-A2 Aluminum plate/heatsink Material: 6063 aluminum Length: 0.5m, 1m, 2m, 3m max Customize made length available	 End Caps PA15-A3 End cap for LED PMMA Profile Material: PC Color: White
 Mounting Clip PA15-A4 Stainless steel mounting clip Material: stainless steel Usage: Mounting accessory for surface mounting	 Epoxy Adhesive PA15-A6 Used for sealing end caps with PMMA profile	 Cable Connector PA15-A7 Connector to open wire: Connector type: Female to open wire / Male to open wire Length: 20cm Application: Used to connect linear lights to the power supply (transformer)

Model No.: 12UL-A | 5W(0.5m)/10W (1m) | IP67 Frameless LED Linear Light

Units:mm

**Cable Entry Ways:****Max length: 3meters/piece****Recessed Mount****Technical Specifications**

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12UL-A-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	5	Cool White=305 Warm White=244	10
12UL-A-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=488	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000K, 3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB and etc.,
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

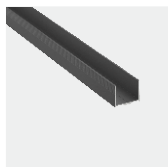
Material Specifications

Housing:	White PMMA Profile (IP67)
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Channel (included):	U-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount

**Direct End Entry Cable****Optional Accessories**

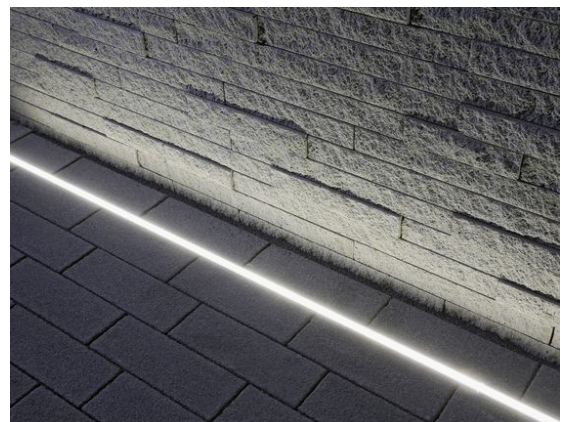
Aluminum Profile 02UL-A-PS

U-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



Aluminum Profile 02UL-A-PB

U-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized or powder coated black color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



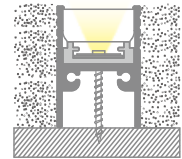
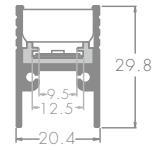
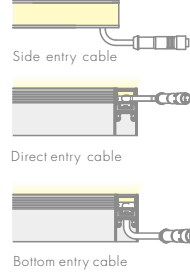
Model No.: 12HL-A | 5W(0.5m)/10W (1m) | Frameless LED Linear Light



Units:mm



Cable Entry Ways:



Length: 3meters max/unit

Recessed Mount

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12HLA-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	5	Cool White=305 Warm White=244	10
12HLA-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=488	10

Notes:

1. Light color or CCT (K): 2200K, 2400k, 2700K, 3000K, 3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB and etc.,
2. Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

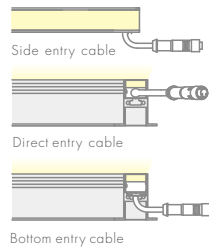
Housing:	White PMMA Profile (IP67)
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDS and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	2-end 20cm AWG#18 to IP67 male & female connectors
Mounting Channel (included):	H-shaped Aluminum Mounting Profile
Installation Ways:	Underground/wall/ceiling Recessed or Surface Mounting



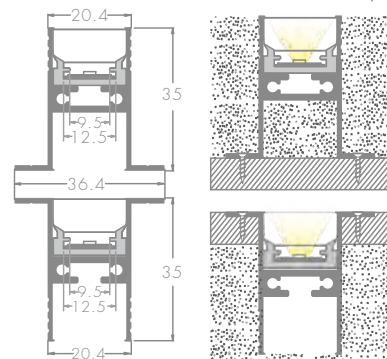
Optional Accessories

	Aluminum Profile 02HL-APS H-shaped aluminum mounting profile Material: 6063 aluminum Finish: Anodized or powder coated Silver or black color Length:0.5m, 1m, 2m, 3m max Customize made length available
	End Cap 02HL-AC End Cap for aluminum mounting profile Please order separately



Model No.: 12TL-A | 5W(0.5m)/10W (1m) | Frameless LED Linear Light**Cable Entry Ways:****Length: 3meters max/unit****2 Different Mount Ways**

Units:mm

**Technical Specifications**

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12TL-A-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	5	Cool White=305 Warm White=244	10
12TL-A-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=488	10

Notes:

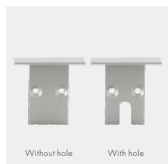
- Light color or CCT (K): 2200K, 2400K, 2700K, 3000K, 3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB and etc.,
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).).

Material Specifications

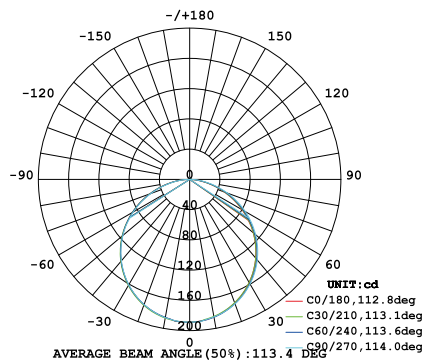
Housing:	White PMMA Profile (IP67)
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	2-end 20cm AWG#18 to IP67 male & female connectors
Mounting Channel (included):	T-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount

**Optional Accessories**

Aluminum Profile 12TL-APS
T-shaped aluminum mounting profile
 Material: 6063 aluminum
 Finish: Anodized silver color
 Length: 0.5m, 1m, 2m, 3m max
 Customize made length available



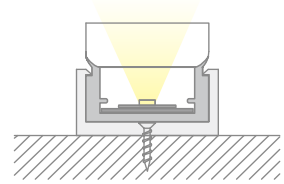
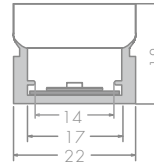
End Cap 12TL-A-C
End Cap for T-shaped aluminum mounting profile
 Options: End cap with hole
 End cap without hole



Model No.: FL2411 | 7.5W(0.5m)/15W (1m) | IP67 Frameless LED Linear Light



Units:mm



Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
PB15-1-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	7.5	Cool White=455 Warm White=366	10
PB15-1-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=915 Warm White=732	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA Profile, Length≤3Meters
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDS and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Channel:	Please view detail in model CL2411U, CL2411H, CL2411T
Installation Ways:	Surface Mount, or Recessed Mount (by Aluminum Profile)

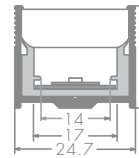
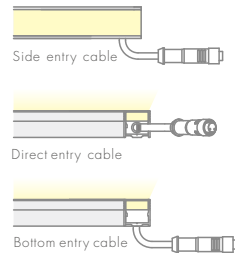
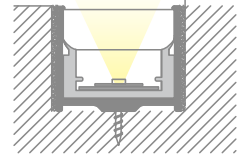


Optional Accessories

 PMMA Profile PB05-A1 PMMA one-time extrusion profile Size: W22xH18mm Length: 0.5m, 1m, 2m, & 3m max, and customized made length is available upon request	 Aluminum Plate PB05-A2 Aluminum plate/heatsink Material: 6063 aluminum Length: 0.5m, 1m, 2m, 3m max Customize made length available	 End Caps PB05-A3 End cap for LED PMMA Profile Material: PC Color: White
 Mounting Clip PB05-A4 Stainless steel mounting clip Material: stainless steel Usage: Mounting accessory for surface mounting	 Epoxy Adhesive PB05-A6 Used for sealing end caps with PMMA profile	 Cable Connector PB05-A7 Connector to open wire Connector type: Female to open wire / Male to open wire Length: 20cm Application: Used to connect linear lights to the power supply (transformer)

Model No.: FL2411U | 7.5W(0.5m)/15W (1m) | IP67 Frameless LED Linear Light

Units:mm

**Cable Entry Ways:****Max length: 3meters/ piece****Recessed Mount****Technical Specifications**

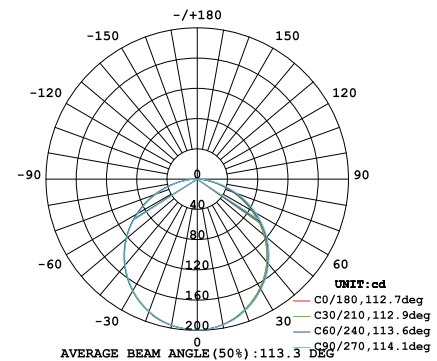
Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12UL-B-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	7.5	Warm White=366	10
12UL-B-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=915 Warm White=732	10

Notes:

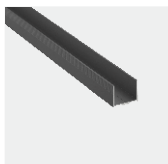
- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

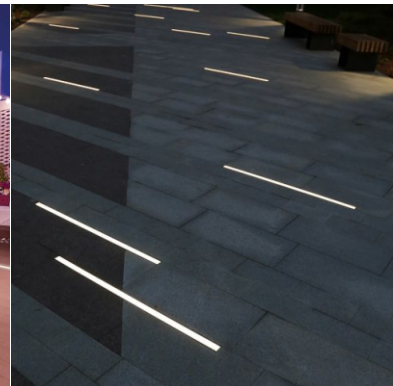
Housing:	White PMMA LED Profile (IP67)
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(included):	U-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount

**Optional Accessories****Aluminum Profile** 02UL-B-PS**Aluminum mounting profile**

Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available

**Aluminum Profile** 02UL-B-PB**Aluminum mounting profile**

Material: 6063 aluminum
Finish: Anodized or powder coated black color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



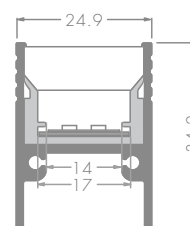
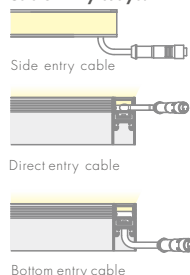
Model No.:12HL-B | 7.5W(0.5m)/15W (1m) | IP67 Frame-less LED Linear Light



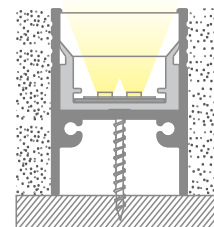
Units:mm



Cable Entry Ways:



Length: 3meters max/unit



Recessed Mount

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12HL-B-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	7.5	Cool White=455 Warm White=366	10
12HL-B-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=915 Warm White=732	10

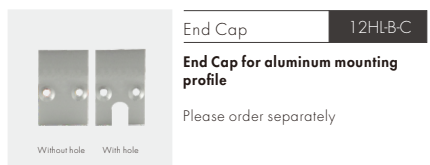
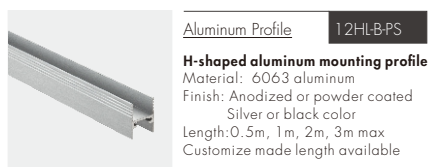
Notes:

1. Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
2. Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

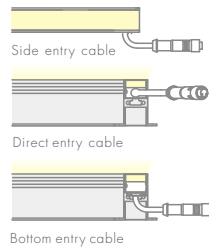
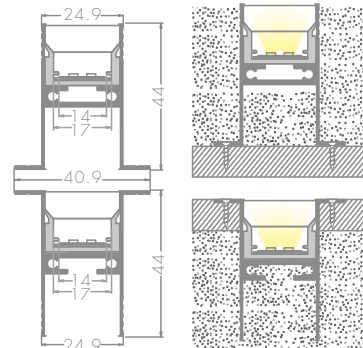
Housing:	White PMMA Profile, Length≤3Meters
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 Male & Female Connectors
Mounting Channel:	H-shaped Aluminum Mounting Profile
Installation Ways:	Surface Mount, or Recessed Mount (by Aluminum Profile)

Optional Accessories



Model No.: 12TL-B | 7.5W(0.5m)/15W (1m) | IP67 Frame-less LED Linear Light

Units:mm

**Cable Entry Ways:****Length: 3meters max/unit****2 Different Mount Ways****Technical Specifications**

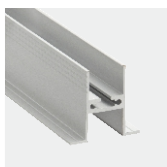
Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12TL-B-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	60x2835 SMD LED	110°	24VDC (12VDC)	7.5	Cool White=455 Warm White=366	101
12TL-B-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=915 Warm White=732	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA LED Profile (IP67)
Diffuser:	Opal white PMMA (for Homogeneous Light & Soft Beam Output)
Profile Pressure Capacity:	Full Area≤24KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Profile (included):	T-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount

Optional Accessories

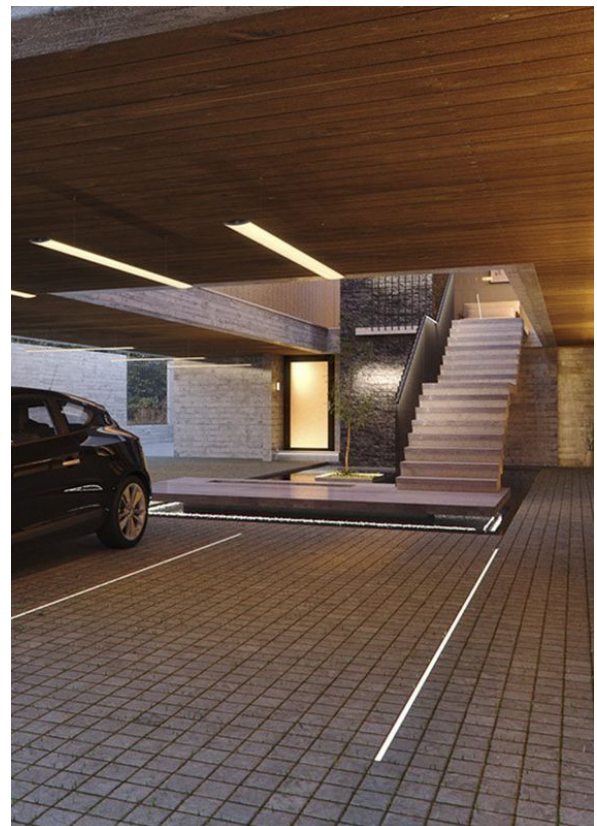
Aluminum Profile FL2411AT

T-shaped aluminum mounting profile
 Material: 6063 aluminum
 Finish: Anodized silver color
 Length: 0.5m, 1m, 2m, 3m max
 Customize made length available



End Cap FL2411ATC

End Cap for T-shaped aluminum mounting profile
 Options: End cap with hole
 End cap without hole



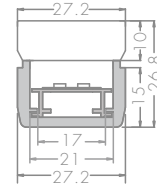


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Model No:FPC05 | 10W(0.5m)/20W (1m) | IP67 Frameless LED Linear Light



Units:mm



Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
FL2412-1-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=512	10
FL2412-1-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	20	Cool White=1220 Warm White=1035	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA Profile, Length≤3Meters
Diffuser:	Opal white PMMA , T=10mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDS and etc. CRI(Ra): Ra>80, or Ra>90; SDCM≤3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Channel:	Please view detail in model CL2412U, CL2412H, CL2412T
Installation Ways:	Surface Mount, or Recessed Mount (by Aluminum Profile)



Optional Accessories

 PMMA Profile FPC05-A1 PMMA one-time extrusion profile: Size: W22xH18mm Length: 0.5m, 1m, 2m, & 3m max, and customized made length is available upon request	 Aluminum Plate FPC05-A2A Aluminum plate/heatsink Material: 6063 aluminum Length: 0.5m, 1m, 2m, 3m max Customize made length available	 Aluminum Plate FPC05-A2B Aluminum plate/heatsink Material: 6063 aluminum Length: 0.5m, 1m, 2m, 3m max Customize made length available
 End Caps FPC05-A3 End cap for LED PMMA Profile Material: PC Color: White	 Epoxy Adhesive FPC05-A6 Used for sealing end caps and PMMA profile	 Cable Connector FPC05-A7 Connector to open wire: Connector type: Female to open wire / Male to open wire Length: 20cm Application: Used to connect linear lights to the power supply (transformer)

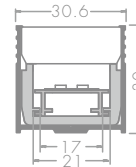
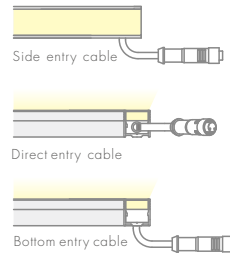
Model No.: 12UL-C | 10W(0.5m)/20W (1m) | IP67 Frameless LED Linear Light



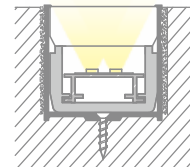
Units:mm



Cable Entry Ways:



Max length: 3meters/ piece



Recessed Mount

Electrical Specifications

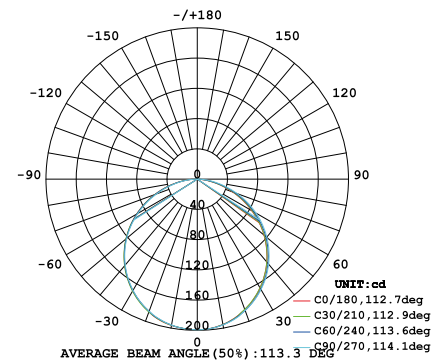
Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12UL-C-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=512	10
12UL-C-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	20	Cool White=1220 Warm White=1035	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA LED Profile, Length≤3Meters
Diffuser:	Opal white PMMA, T=10mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM≤3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(included):	U-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount



Optional Accessories



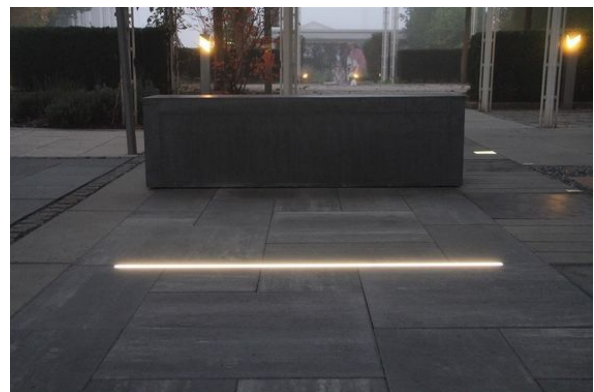
Aluminum Profile 12UL-C-PS

U-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



Aluminum Profile 12UL-C-PB

U-shaped aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized or powder coated black color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



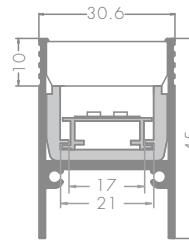
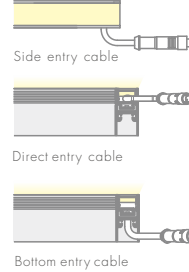
Model No.: 12HL-C | 10W(0.5m)/20W (1m) | IP67 Frameless LED Linear Light



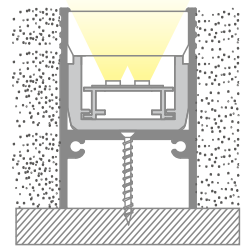
Units:mm



Cable Entry Ways:



Length: 3meters max/unit



Recessed Mount

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12HL-C-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=512	10
12HL-C-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	20	Cool White=1220 Warm White=1035	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

Material Specifications

Housing:	White PMMA LED Profile, Length≤3Meters
Diffuser:	Opal white PMMA , T=10mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(included):	H-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount



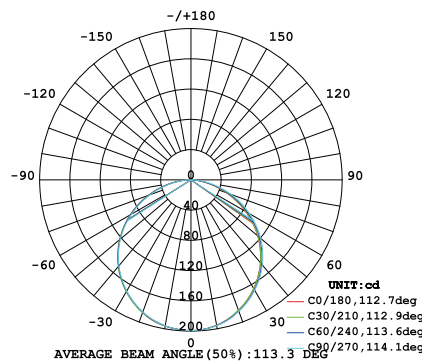
Optional Accessories

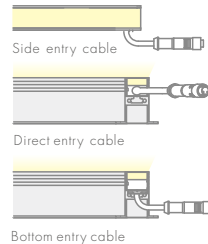
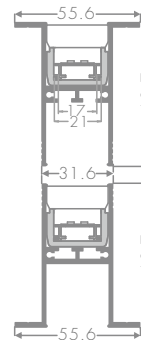
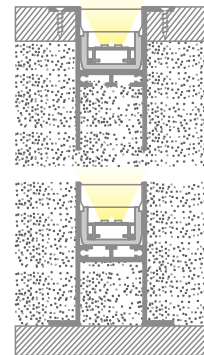


Aluminum Profile 12HL-C-PS
H-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



End Cap 12HL-C-C
End Cap for aluminum mounting profile
Please order separately



Model No.: FL2412T | 10W(0.5m)/20W (1m) | IP67 Frameless LED Linear Light**Cable Entry Ways:****Length: 3meters max/unit****2 Different Mount Ways**

Units:mm

Technical Specifications

Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12TL-C-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	10	Cool White=610 Warm White=512	10
12TL-C-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	20	Cool White=1220 Warm White=1035	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and other customized made length (max length up to 3meters).

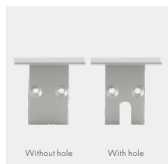
Material Specifications

Housing:	White PMMA LED Profile, Length≤3Meters
Diffuser:	Opal white PMMA, T=10mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDs and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(included):	U-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount

**Optional Accessories**

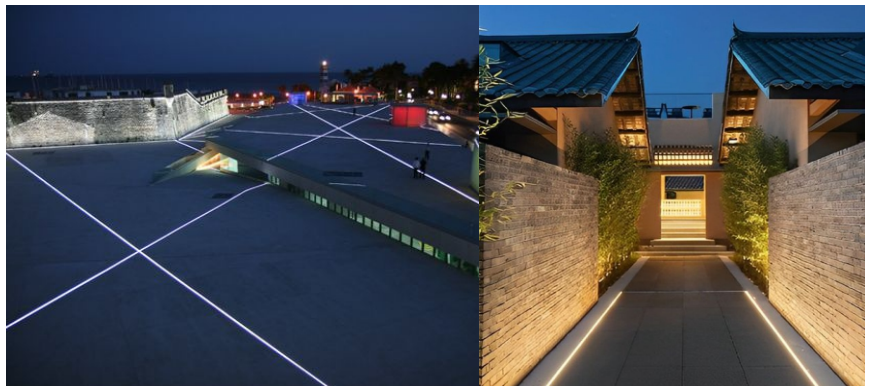
Aluminum Profile 12TL-C-PS

T-shaped aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



End Cap 12TL-C-C

End Cap for T-shaped aluminum mounting profile
Options: End cap with hole
End cap without hole



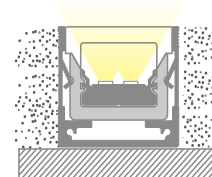
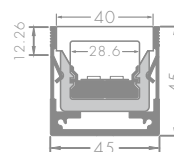
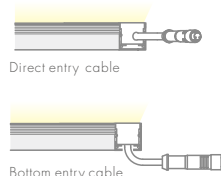
Model No.: 12UL-D | 15W(0.5m)/30W (1m) | IP67/IP68 Frameless LED Linear Light



Units:mm



Cable Entry Ways:



Length: 3meters max/unit

Recessed Mount

Technical Specifications

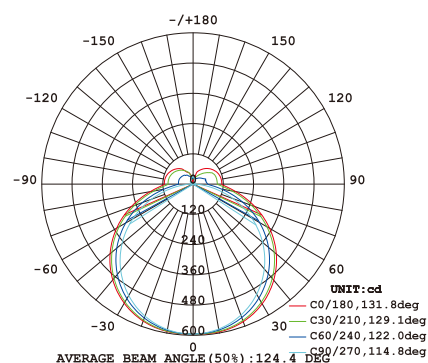
Item Number	Length (mm)	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12UL-D-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=1185 Warm White=1030	10
12UL-D-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	30	Cool White=2372 Warm White=2064	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and customized made length available on request (max length up to 3meters).

Material Specifications

Housing:	White PMMA LED Profile, Length≤3Meters
Diffuser:	Opal white PMMA, T=6mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDS and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(Included):	U-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount



Optional Accessories



Aluminum Profile 12UL-D-PS
U-shaped Aluminum mounting profile
 Material: 6063 aluminum
 Finish: Anodized silver or black color
 Length: 0.5m, 1m, 2m, 3m max
 Customize made length available

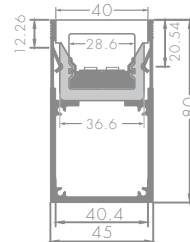
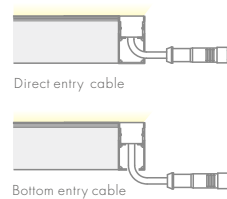
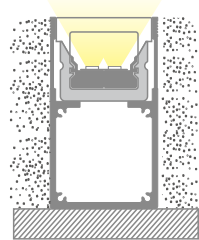


End Cap 12UL-D-EC
End Cap for aluminum mounting profile
 Please order separately



Model No.: FL2413H | 15W(0.5m)/30W (1m) | IP67/IP68 Frameless LED Linear Light

Units:mm

**Cable Entry Ways:****Length: 3meters max/unit**

Recessed Mount

Technical Specifications

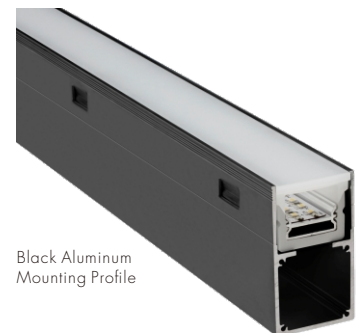
Item Number	Length (mm)	Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)	Typical Luminance (LM)	IK Rate
12HLD-500	500	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	120x2835 SMD LED	110°	24VDC (12VDC)	15	Cool White=1185 Warm White=1030	10
12HLD-1000	1000	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	240x2835 SMD LED	110°	24VDC (12VDC)	30	Cool White=2372 Warm White=2064	10

Notes:

- Light color or CCT (K): 2200K, 2400K, 2700K, 3000~3300K, 4000-4300K, 5000-5500K, 6000-6500K, Red, Green, Blue, Yellow, tunable white, RGB, RGBW and etc.;
- Length: Available in 300/500/600/1000/1200/1500/2000mm per unit and customized made length available on request (max length up to 3meters).

Material Specifications

Housing:	White PMMA LED Profile, Length≤3Meters
Diffuser:	Opal white PMMA , T=6mm
Profile Pressure Capacity:	Full Area≤30KN, Walk Over or Drive Over Support
LED:	Type: SMD LED; Brands: OSRAM, CREE, LUMINLEDS and etc. CRI(Ra): Ra>80, or Ra>90; SDCM<3
Driver (Not Included):	Remote External LED Driver with Constant Voltage 24VDC output
Operating Temperature:	-20°C~+50°C
Power Cable:	20cm AWG#18 to IP67 male & female connectors
Mounting Sleeve(included):	H-shaped Aluminum Mounting Profile
Installation Ways:	Underground/Wall/Ceiling Recessed or Surface Mount



Black Aluminum Mounting Profile

Optional Accessories

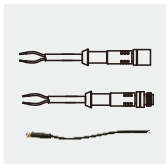
Aluminum Profile 12HLD-PS
H-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized silver color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



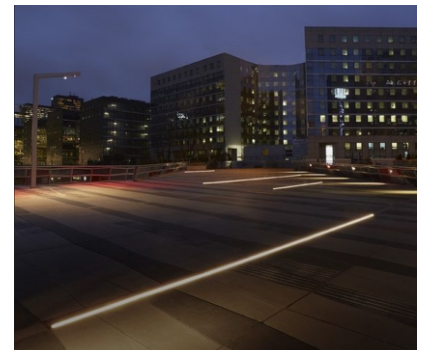
Aluminum Profile 12HLD-PB
H-shaped Aluminum mounting profile
Material: 6063 aluminum
Finish: Anodized black color
Length: 0.5m, 1m, 2m, 3m max
Customize made length available



End Cap 12HLD-C
End Cap for aluminum mounting profile
Please order separately



Cable Connector 12HLD-W
Connector to open wire
Connector type: Female to open wire / Male to open wire
Length: 20cm
Application: Used to connect linear lights to the power supply (transformer)





Lighting Technology & Control Pty Ltd
ABN. 36 607 221 223
Office: 1300 832 372
Email: sales@lighttc.com.au
Address: Unit 34/50-62 Cosgrove Road,
South Strathfield.NSW. 2136 Australia

www.lighttc.com.au