

ADVANCED ENERGY SOLUTIONS

Linear light SOLUTIONS

LED

**PRODUCTS
PORTFOLIO**

LIGHT IS LIFE

*Lighting says everything about the working environment
Lighting is at the heart of the way people think and build.*

Modern lighting requires products and services of the highest standards, innovative solutions, technical excellence, design flexibility and consistent performance.

ADVANCED ENERGY SOLUTIONS COMPANY was established to meet the highly growing demands of energy management and energy efficiency,

Either you own small facility or large plant we are here to give you the best solution in the field.

With a talented highly qualified engineering team we are striving to meet the highest standards and technologies to meet all requirement of our costumers.

Our team provide scientifically certified lighting studies.



MADE IN KSA

Our collection are manufactured with high quality in accordance with national/international standards with specifications to meet the harsh climate of the Arab Gulf countries.

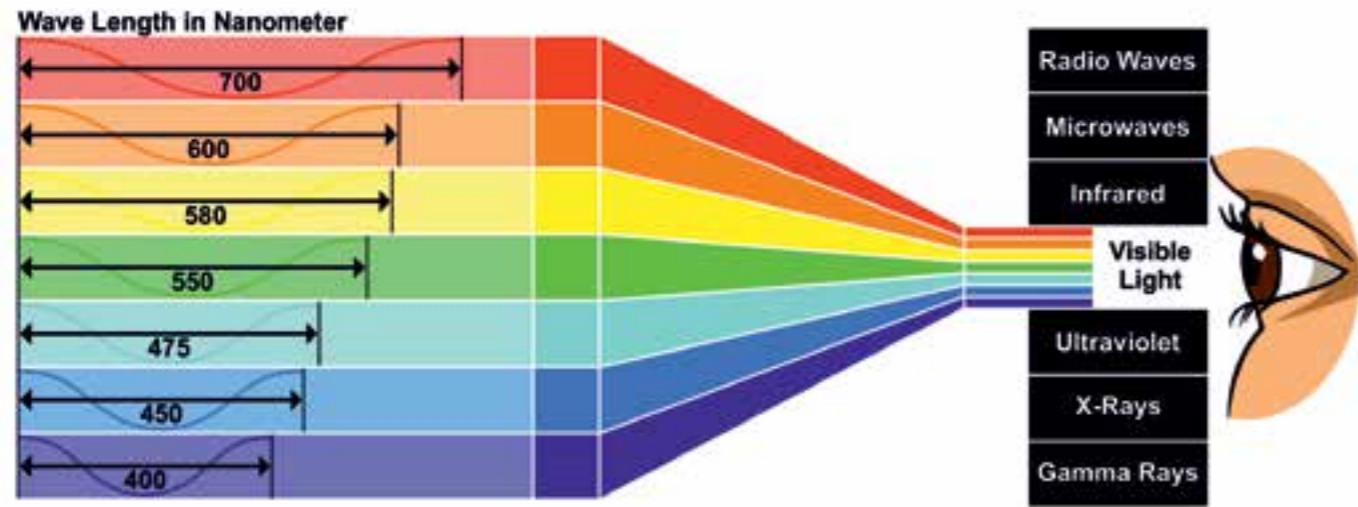
We offer a five-years warranty on all of our fixtures, as we design and calculate the body of the fixture in accordance with the LED chip and the driver to ensure the efficiency and quality of the product,

Whether indoor or outdoor fixtures with 50 K hours working life and up 100K hours.



And Up to 100.000 working hours

INTRODUCTION TO LIGHT SCIENCE



Light or visible light is electromagnetic radiation within the portion of the electromagnetic spectrum that can be perceived by the human eye. Visible light is usually defined as having wavelengths in the range of 400–700 nm, between the infrared (with longer wavelengths) and the ultraviolet (with shorter wavelengths).

The main source of light on Earth is the Sun. Historically, another important source of light for humans has been fire, from ancient campfires to modern LED lamps. With the development of electric lights and power system, electric lighting has effectively replaced firelight.

The primary properties of visible light are intensity, propagation . direction, frequency or wavelength spectrum and polarization 002



CORRELATED COLOR TEMPERATURE CCT



Color temperature defines the color appearance of a white LED. It's measured in the Kelvin unit and is most commonly found between 2200 Kelvin degrees and 6500 Kelvin degrees. a warm light is around 2700K, moving to neutral white at around 4000K, and to cool white, at 5000K or more.

COLOR RENDERING INDEX CRI



It 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 like sunlight, the CRI of the sunlight is 100, that means if the CRI is close to 100 the colors will be reflected more truly and naturally, the illustration below shows how CRI can affect the appearance of colors.

MACADAM ELLIPSE



MacAdam ellipse is a region on a chromaticity diagram (CIE 1931) which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse. Slight color differences in the appearance of LED light are measured in steps, the higher the N-steps, the greater the visual difference between two white light sources

COLOR RENDERING INDEX CRI



Dimmers are devices connected to a light fixture and used to lower the brightness of light, you can use several different dimming options to dim LED Lighting , as phase cut(triac), 0/1-10v dimming and DALI system, but beware that the driver must support type of dimming you use.

A-Phase Cut(Triac) dimming:

This type of control is a traditional one accomplished without any need for an additional control wires. It involves connecting a dimmer in series between one of the mains wire and the equipment.

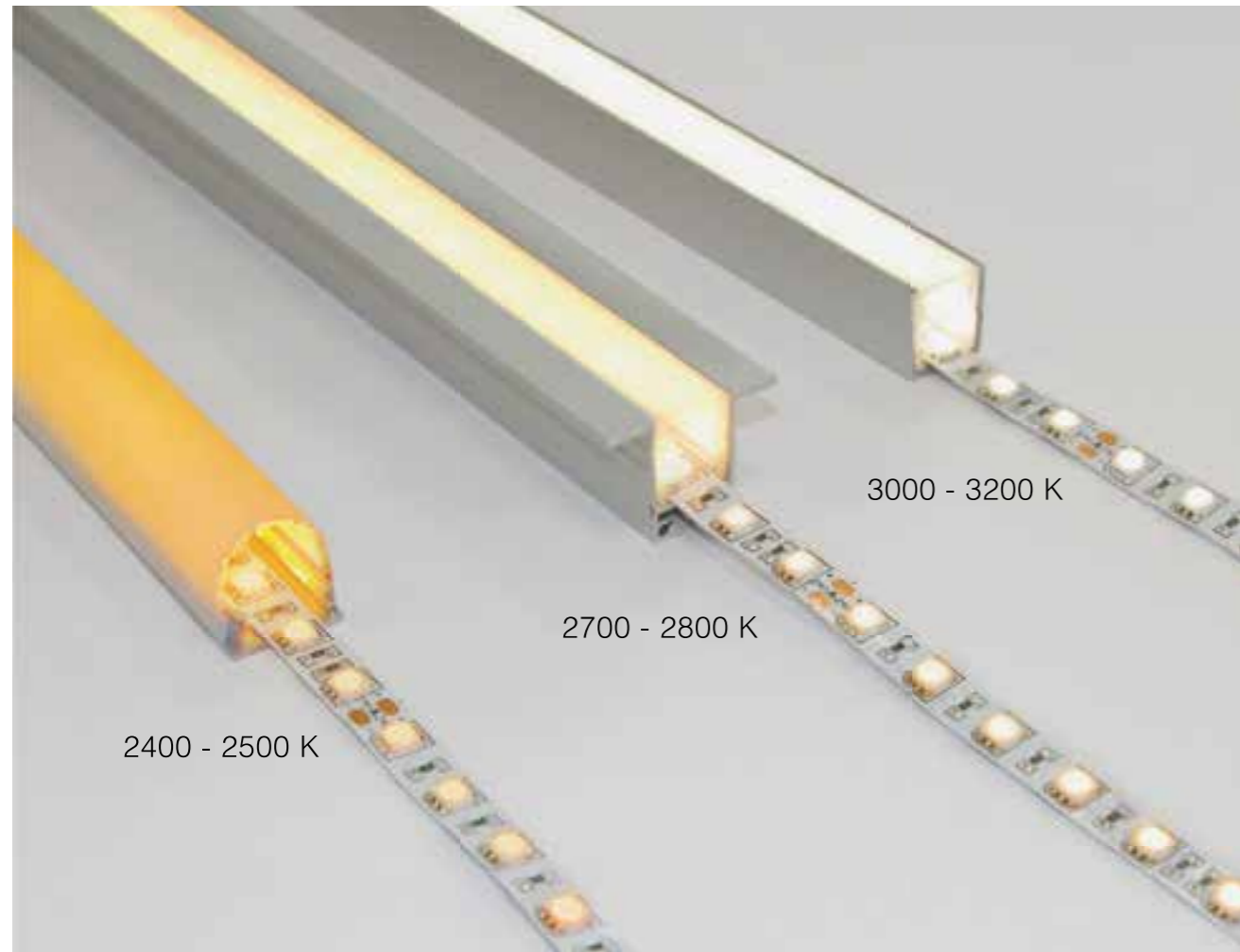
B-0/1-10v dimming:

The 0/1-10V system enables dimming of the brightness from around 10% to 100%. This is done by sending an analogue signal (0/1-10v) to the equipment over an additional two wires control line.

C-DALI system:

Digital Addressable Lighting Interface, DALI is a digital and addressable communication interface for lighting systems, Digital signals are transmitted over a bus or two-wire control wire.

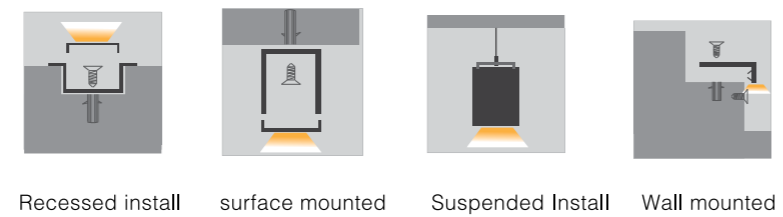
Aluminum Profile for LED Strip



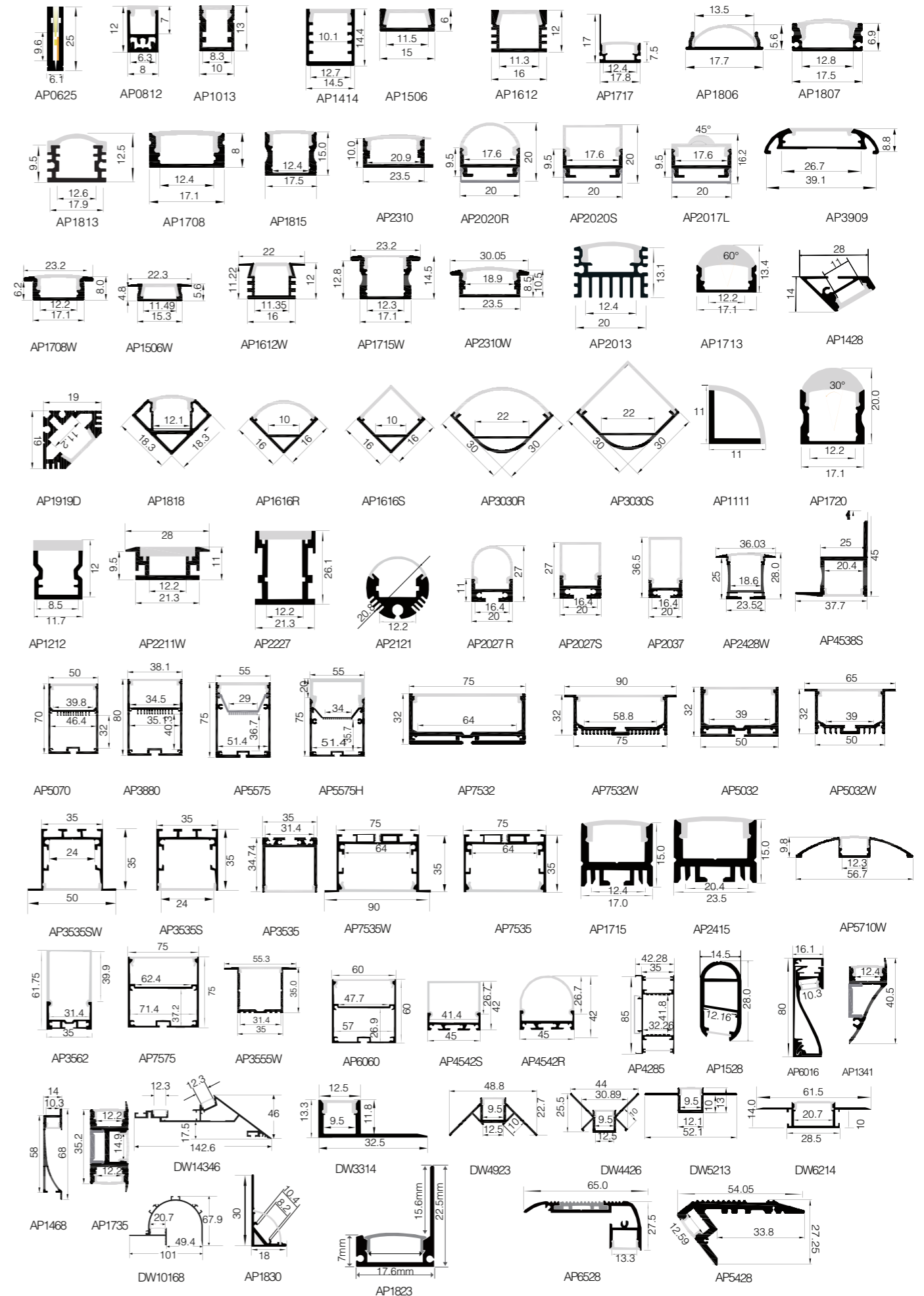
PCB Width	8mm,10mm,12mm	15mm,28mm	24mm,30mm	40mm,56mm
Typical Watt	9.6w/m, 14.4w/m, 19.2w/m	19.2w,25w/m	28.8w,34w/m	38.4w,48w/m
LED Qty	60leds,120leds,240leds/m	240leds/m,120leds/m	320leds,360leds/m	480leds/m
Typical Lumen	300-1100LM,1940leds/m	1700-2100LM,2350leds/m	2400-2800LM,4250leds/m	3400-4800leds/m



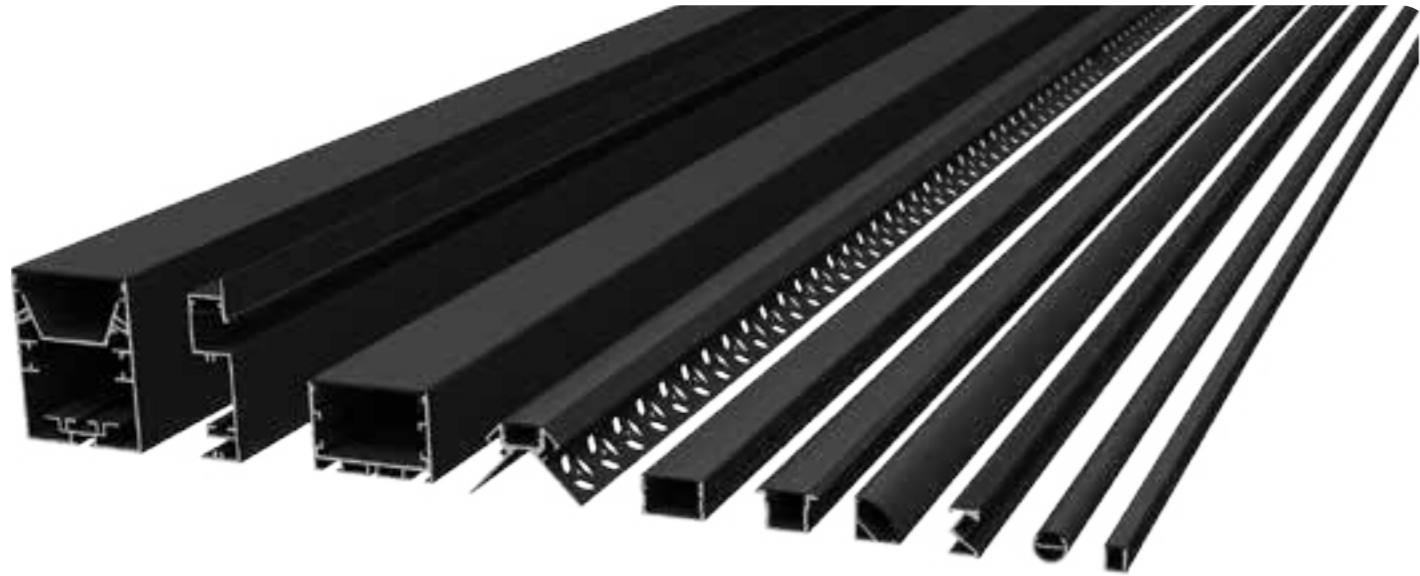
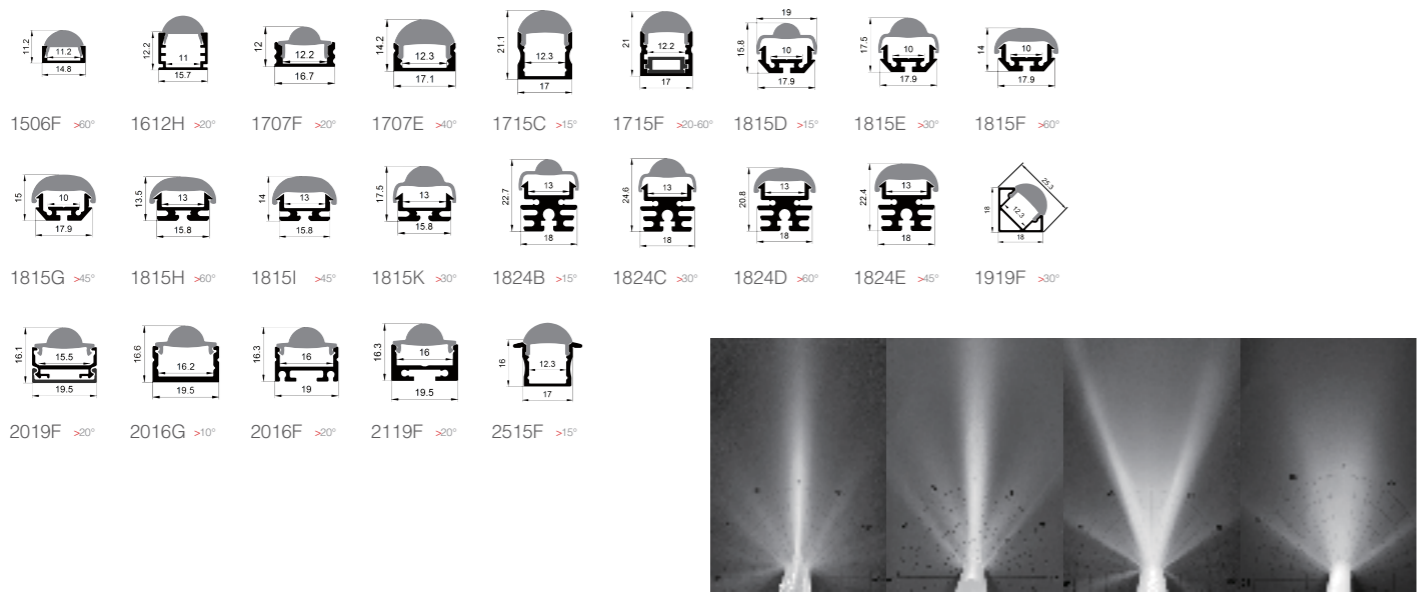
Cover Type: PC Frost PMMA Milky PC Clear Black
 Light Transmittance: 88% 80% 96% 35%



Aluminum profile for LED Strip



Lens beam angle

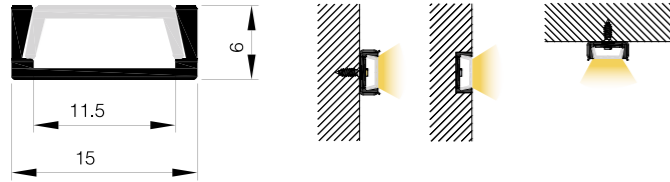


Surface Mounted U-shape Aluminum LED Linear Light

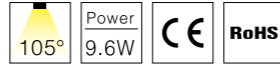
ALS-AP1506-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 683lm

CRI: RA>80
Voltage: DC 24V
IP Rate: IP 40



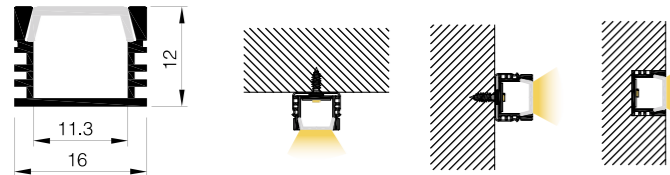
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design



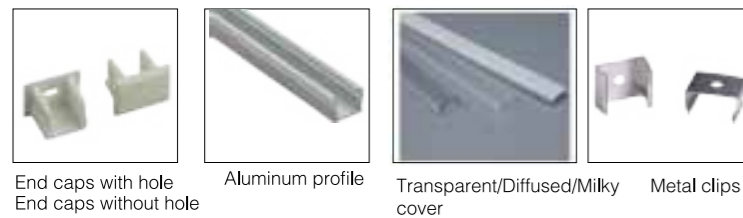
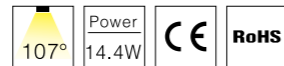
ALS-AP1612-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 913lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design

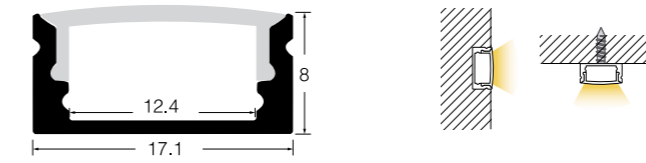


Surface Mounted U-shape Aluminum LED Linear Light

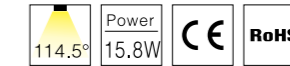
LS-AP1708-1002

Light Source: SMD2216
Voltage: DC24V
Lumen: 375lm

CRI: RA>90
CCT: 2200-6500K
IP Rate: IP40



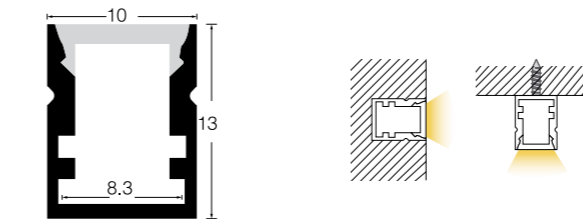
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1002MM (0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



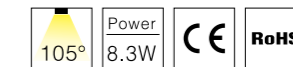
LS-AP1013-1000

Light Source: SMD2216
Voltage: DC24V
Lumen: 375lm

CRI: RA>90
CCT: 2200-6500K
IP Rate: IP40



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 0.5m-3m
Application: Commercial lighting/Indoor lighting/Decorative design

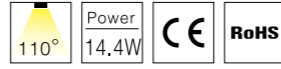
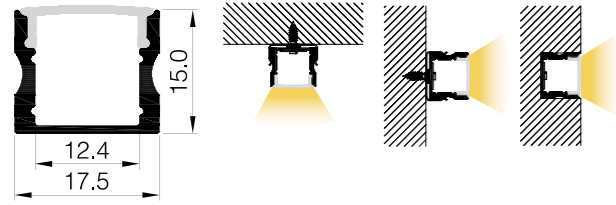


Surface Mounted U-shape Aluminum LED Linear Light

ALS-AP1815-1015

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 1599lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM (0.5m-3m optional)
Application: Commercial lighting / Indoor lighting/ Decorative design

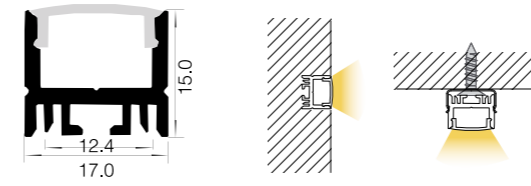


Surface Mounted U-shape Aluminum LED Linear Light

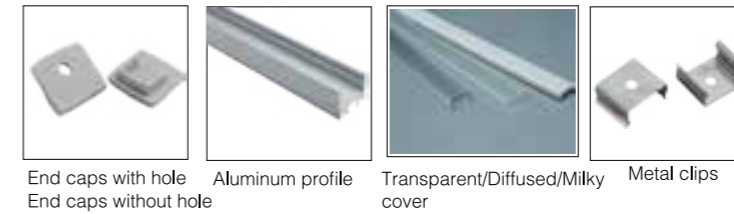
LS-AP1715-1015

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 1599lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM (0.5m-3m optional)
Application: Commercial lighting / Indoor lighting/ Decorative design

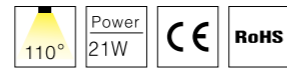
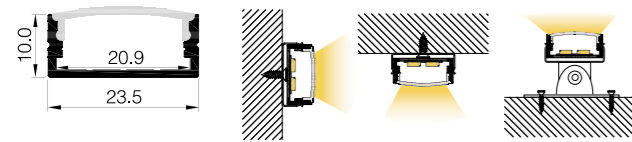


LS-AP2310-1015

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 2100lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50

Can be used as COVE Lighting
110° Beam angle, 180° rotation



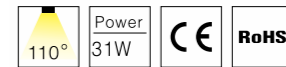
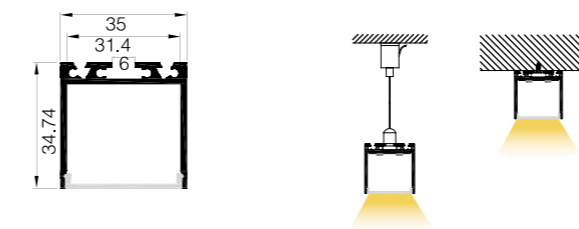
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



LS-AP3535-1005

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 1513lm


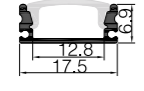


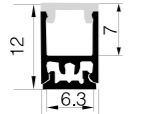


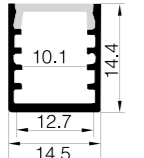
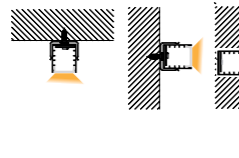
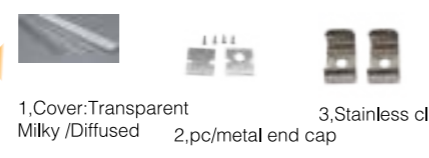
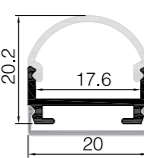
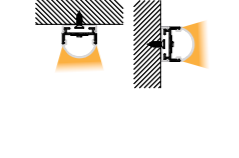

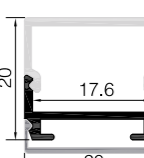
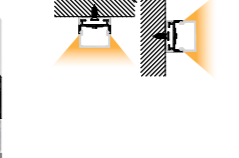

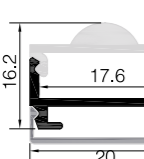
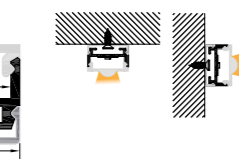

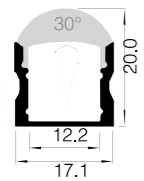
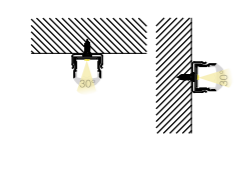
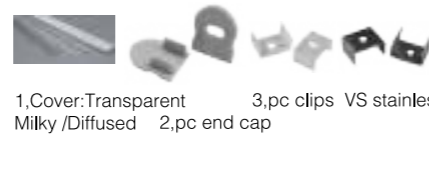
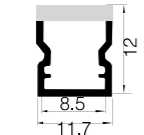
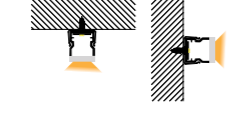

CRI: RA>80
Voltage: DC24V
IP Rate: IP50




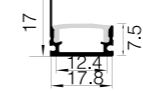


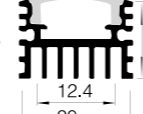
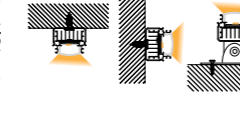
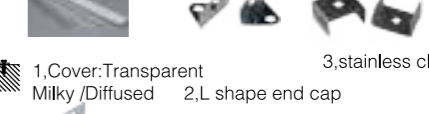
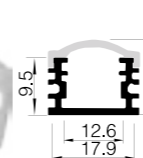
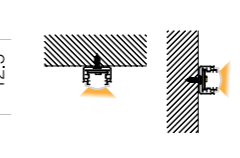

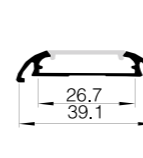

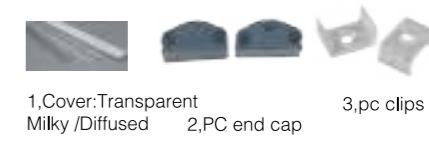
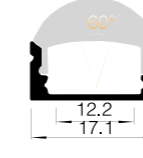
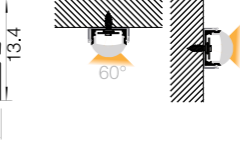

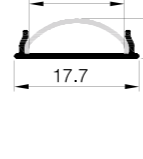

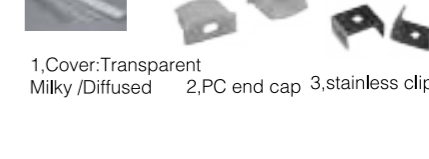
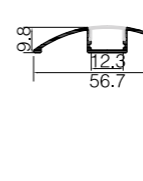
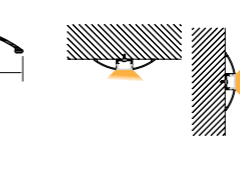
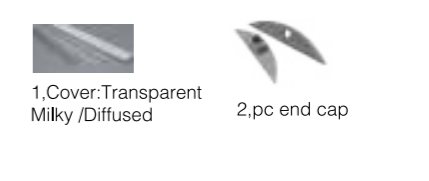
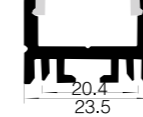
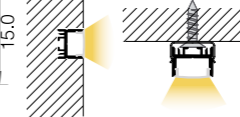
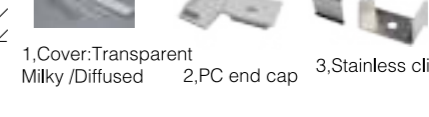
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1005MM(0.5m-3m)
Application: Commercial lighting/Indoor lighting/Decorative design



Surface Mounted U-shape Aluminium Profile

AP1807	Dimensions	Installation	Accessories	Lightsource
				6-12mm PCB <15W/m flex LED strips:
AP0812				4-6mm PCB <10W/m flex LED strips:
AP1414				6-10mm PCB <14W/m flex LED strips:
AP2020R				6-17mm PCB <20W/m flex LED strips:
AP2020S				6-17mm PCB <20W/m flex LED strips:
AP2017L				6-12mm PCB <20W/m flex LED strips:
AP1720				6-12mm PCB <20W/m flex LED strips:
AP1212				6-12mm PCB <20W/m flex LED strips:

Surface Mounted U-shape Aluminium Profile

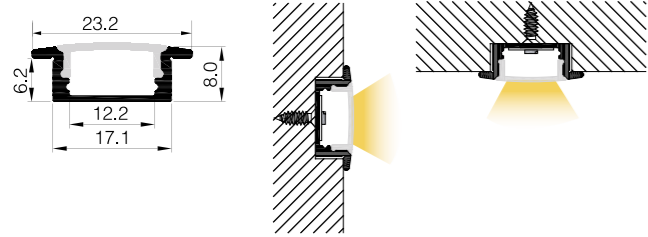
AP1717	Dimensions	Installation	Accessories	Lightsource
				6-12mm PCB <15W/m flex LED strips:
AP2013				6-12mm PCB <20W/m flex LED strips:
AP1813				6-12mm PCB <15W/m flex LED strips:
AP3909				6-14mm PCB <20W/m flex LED strips:
AP1713				6-12mm PCB <15W/m flex LED strips:
AP1806				6-12mm PCB <14W/m flex LED strips:
AP5710W				6-12mm PCB <15W/m flex LED strips:
AP2415				6-20mm PCB <30W/m flex LED strips:

Recessed W-shape Aluminum LED Linear Light

LS-AP1708W-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen:1079lm

CRI: RA>80
Voltage: DC12V
IP Rate: IP50



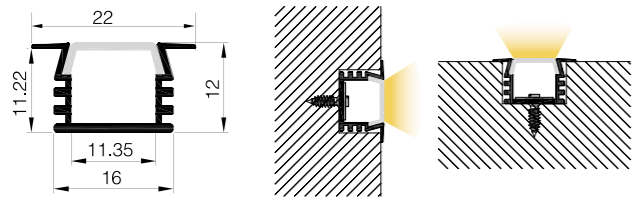
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m optional)
Application: Commercial lighting / Indoor lighting/ Decorative design



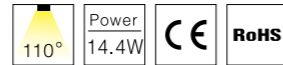
LS-AP1612W-1005

Light Source: SMD2835
CCT: 2200-6500K
Lumen:2100lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1005MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



Recessed W-shape Aluminium Profile

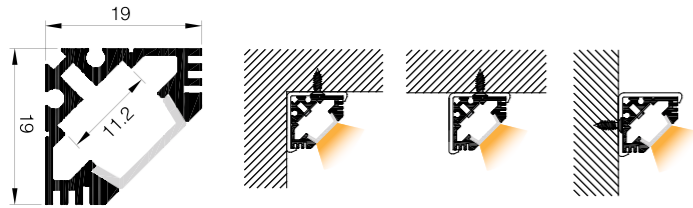
Model	Dimensions	Installation	Accessories	Lightsource
AP1506W			 1, Cover: Transparent Milky /Diffused 2, PC end cap	6-10mm PCB <12W/m flex LED strips:
AP1815W			 1, Cover: Transparent Milky /Diffused 2, PC end cap	6-12mm PCB <15W/m flex LED strips:
AP2310W			 1, Cover: Transparent Milky /Diffused 2, PC end cap	6-18mm PCB <21W/m flex LED strips:
AP2428W			 1, Cover: Transparent Milky /Diffused 2, PC end cap 3, stainless springs	6-17mm PCB <20W/m flex LED strips:

Corner V-shape Aluminum LED Linear Light

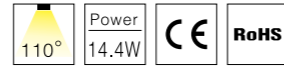
LS-AP1919D-985

Light Source: SMD2835
CCT: 2200-6500K
Lumen:895lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



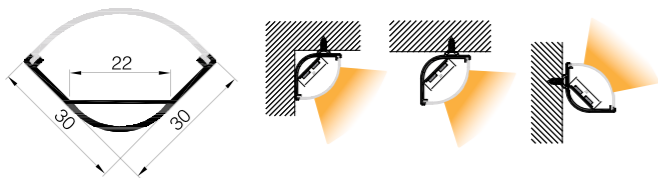
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 985MM (0.5m-3m optional)
Application: Commercial lighting / Indoor lighting/ Decorative design



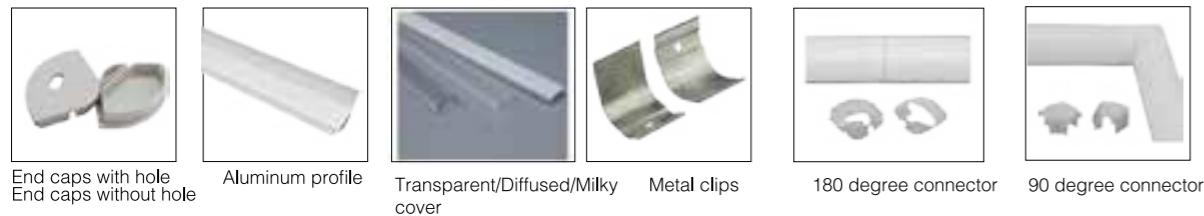
LS-AP3030R-1015

Light Source: SMD2835
CCT: 2200-6500K
Lumen:1753lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



Corner V-shape Aluminium Profile

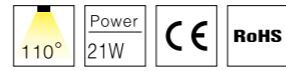
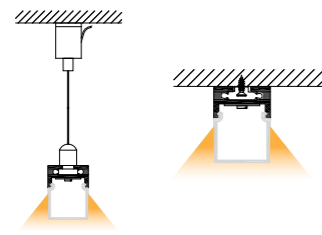
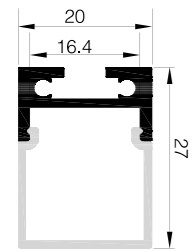
Model	Dimensions	Installation	Accessories	Lightsource
AP1818			1,Cover:Transparent Milky /Diffused 2,PC end cap 3,Stainless clips	6-12mm PCB <15W/m flex LED strips:
AP3030S			1,Cover:Transparent Milky /Diffused 2,PC end cap 3,Stainless clips	10-21mm PCB <20W/m flex double rows LED strips:
AP1616S			1,Cover:Transparent Milky /Diffused 2,PC end cap 3,Stainless clips	6-10mm PCB <14W/m flex LED strips:
AP1111			1,PC end cap 2,Stainless clips	8mm PCB <10W/m flex LED strips:
AP1830			1,Cover:Transparent Milky /Diffused 2,PC end cap 3,Stainless clips	6-12mm PCB <15W/m flex LED strips:

Suspended Aluminum LED Linear Light

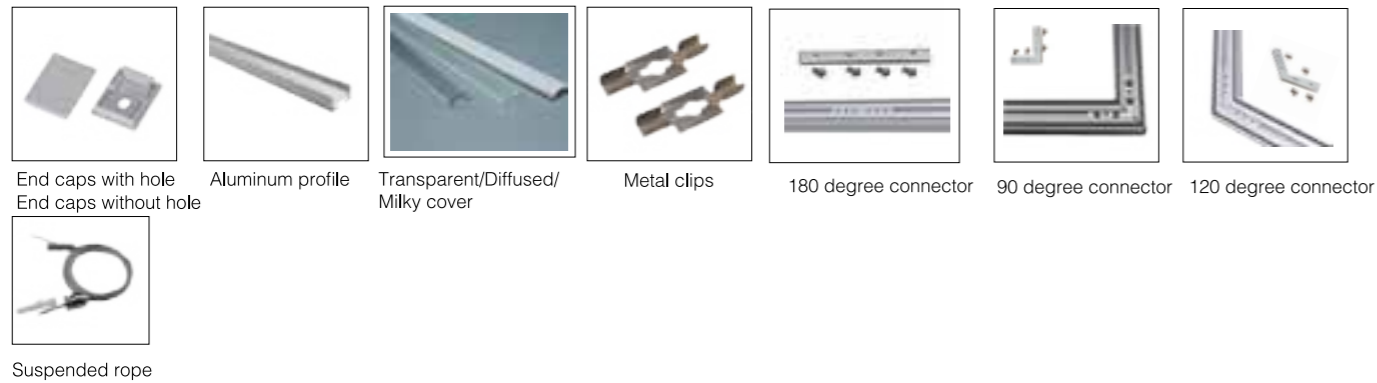
LS-AP2027S-1010

Light Source: SMD2835
CCT: 2200-6500K
Lumen:1165lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



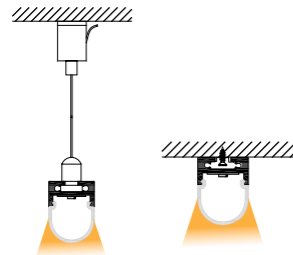
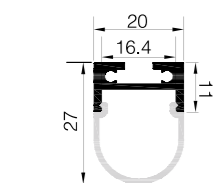
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 985MM (0.5m-3m optional)
Application: Commercial lighting / Indoor lighting/ Decorative design



LS-AP3030R-1015

Light Source: SMD2835
CCT: 2200-6500K
Lumen:1163lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50




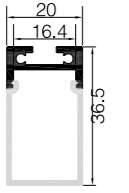
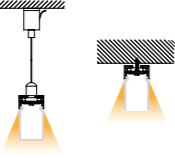


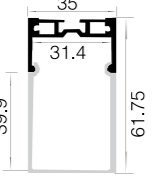
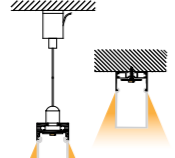
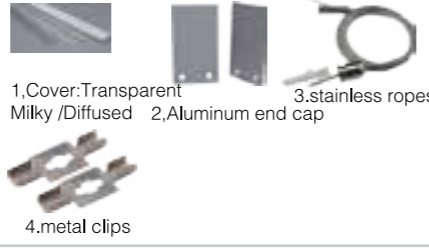

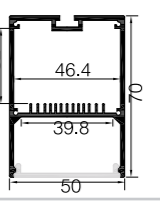
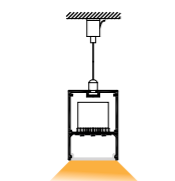
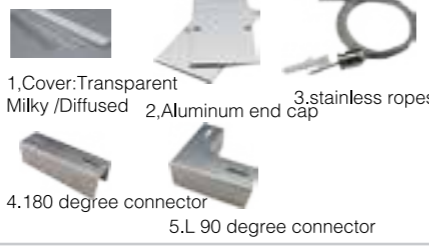

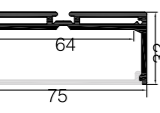
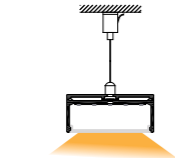
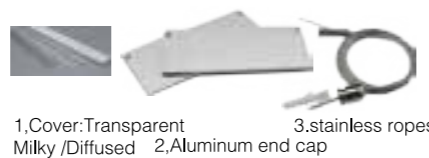

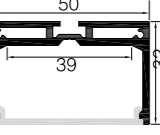
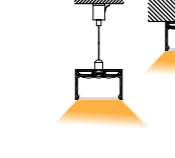
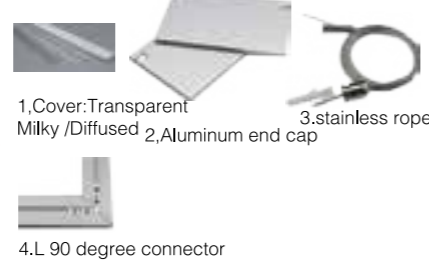

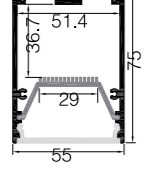
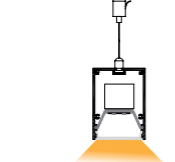
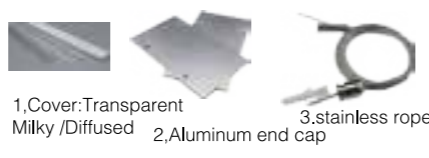
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



Suspended Aluminium Profile

AP2121	Dimensions	Installation	Accessories	Lightsource
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2.PC end cap 3.pc rotatable brackets 4.stainless ropes 5,metal mount clips 6,end cap with rod 	6-12mm PCB <20W/m flex LED strips:
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2,Aluminum end cap 3.stainless ropes 	20-58mm PCB <56W/m flex quad rows
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2,Alu end cap 3,stainless clips 4.stainless steel ropes 	20-40mm PCB <36W/m flex three LED strips:
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2,Alu end cap 3,stainless clips 4.stainless steel ropes 	20-40mm PCB <36W/m flex double rows LED strips:
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2,Aluminum end cap 3,stainless ropes 	10-58mm PCB <48W/m flex LED strips:
			<ul style="list-style-type: none"> 1.Cover:Transparent Milky /Diffused 2,Aluminum end cap 3,stainless ropes 4.mounting clips 5.IL shape connector 6.T shape connector 7.L shape connector 8.X shape connector 	10-20mm PCB <36W/m flex LED strips:

Suspended Aluminium Profile

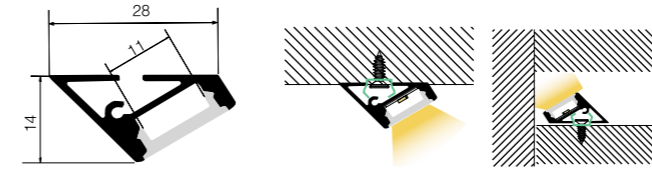
AP2037	Dimensions	Installation	Accessories	Lightsource
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes	10-15mm PCB <24W/m flex LED strips:
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes 4, metal clips	10-30mm PCB <28W/m flex LED strips:
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes 4, 180 degree connector 5, L 90 degree connector	10-39mm PCB <45W/m flex LED strips:
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes	10-64mm PCB <56W/m flex LED strips:
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes 4, L 90 degree connector	10-39mm PCB <45W/m flex LED strips:
			 1, Cover: Transparent Milky /Diffused 2, Aluminum end cap 3, stainless ropes	20-40mm PCB <48W/m flex LED strips:

Cabinet & Wardrobe Aluminum LED Linear Light

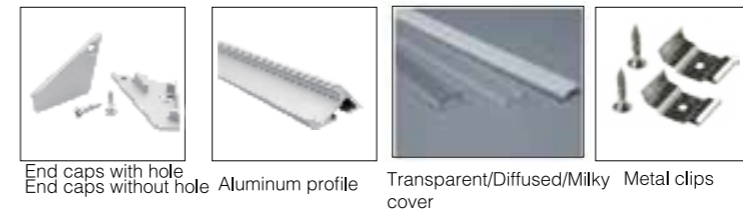
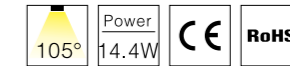
LS-AP2814-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 853lm

CRI: RA>80
Voltage: DC12V
IP Rate: IP50



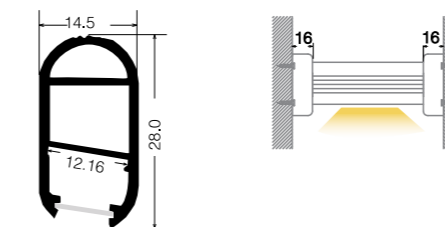
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design



LS-AP1528-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen: 913lm

CRI: RA>80
Voltage: DC24V
IP Rate: IP50



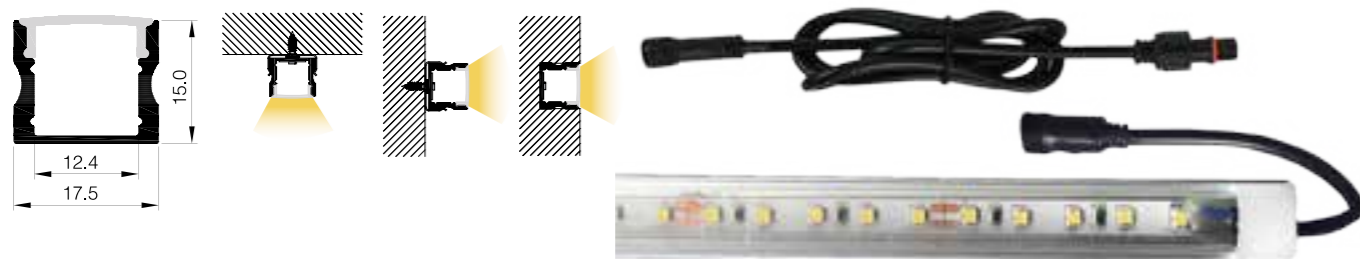
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM(0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



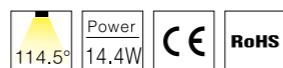
Waterproof Aluminum LED Linear Light & Profile

LS-WAP1815-1015

Light Source: SM5050
Voltage: DC24V
Lumen: 867lm
CRI: RA>80
CCT: 2200-6500K
IP Rate: IP65



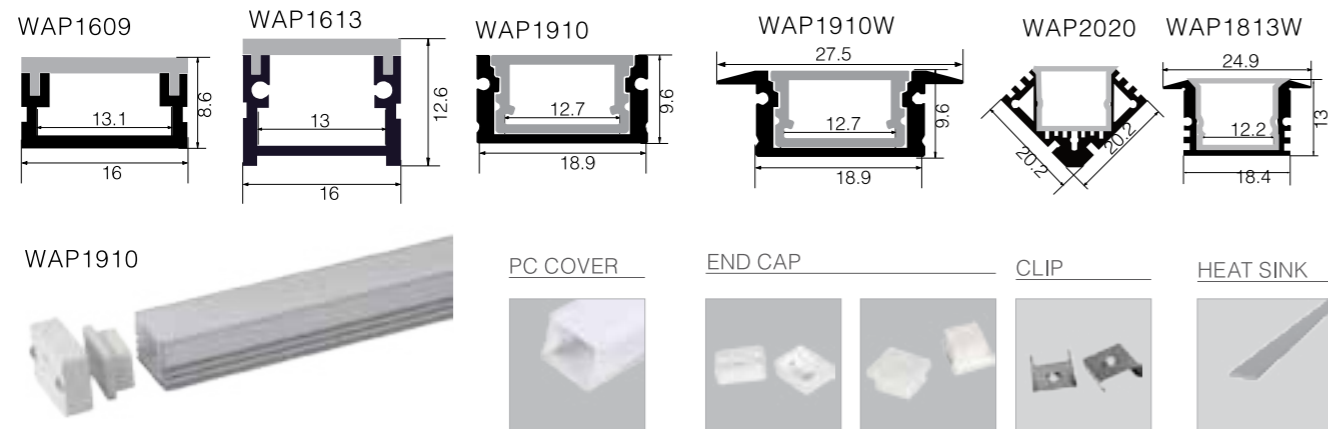
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1015MM (0.5m-3m optional)
Application: Commercial lighting/Indoor lighting/Decorative design



More models and accessories



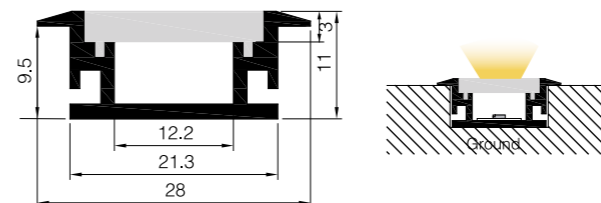
T connetor and splitter connector,multiple output customized



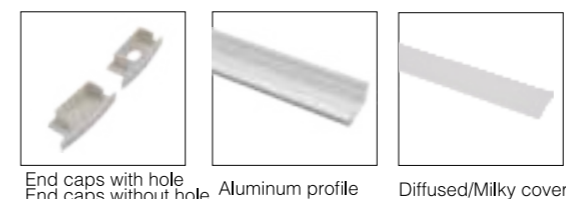
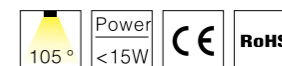
Ground Recessed Aluminium LED Linear Light

LS-AP2211W-1010

Light Source: SMD2835
CCT: 2200-6500K
Lumen:768lm
CRI: RA>80
Voltage: DC12V
IP Rate: IP65



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design

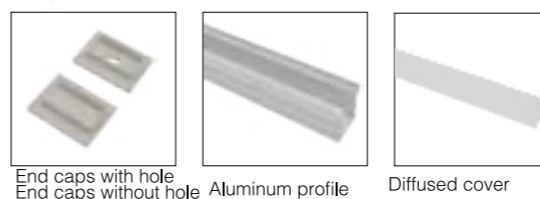
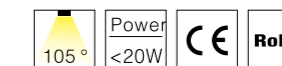


LS-AP2227-1010

Light Source: SMD2835
CCT: 2200-6500K
Lumen:973lm
CRI: RA>80
Voltage: DC12V
IP Rate: IP65



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design

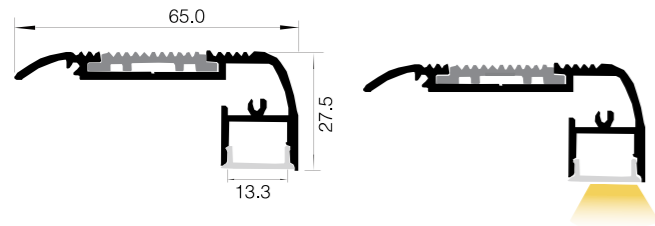


Stair Nose Mounted Aluminium LED Linear Light

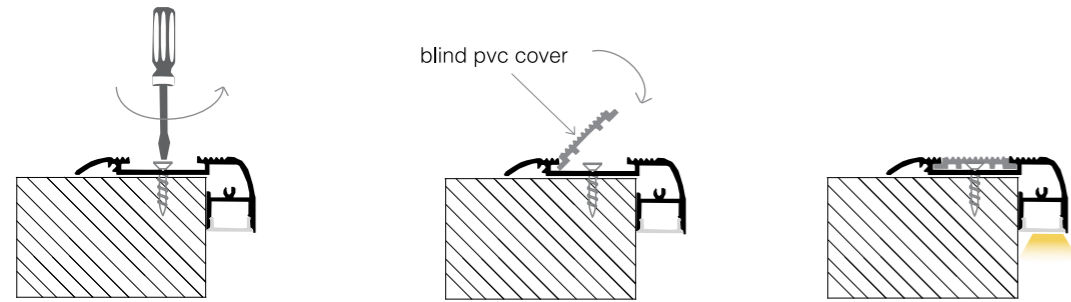
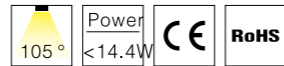
LS-AP6528-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen:669lm

CRI: RA>80
Voltage: DC12V
IP Rate: IP65



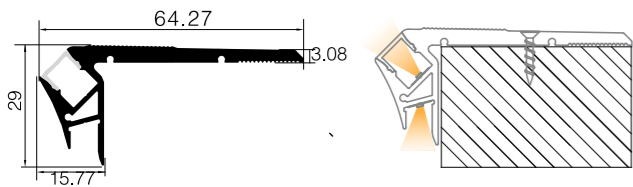
Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design



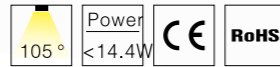
LS-AP6529-1000

Light Source: SMD2835
CCT: 2200-6500K
Lumen:776lm

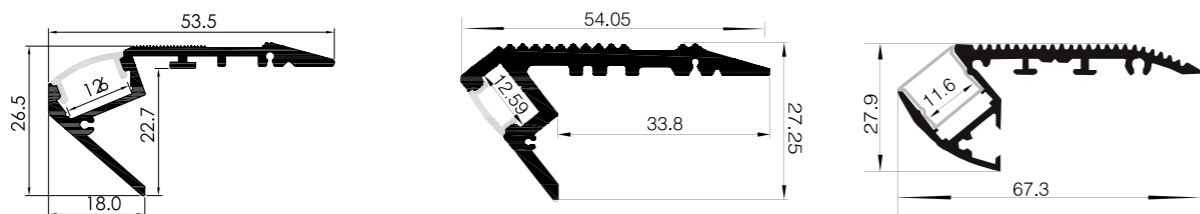
CRI: RA>80
Voltage: DC12V
IP Rate: IP65



Material: AL-6063
Surface: Anodized/Painting | silver/black/white etc.
PC/PMMA Cover: Diffuser/Transparent/Milky
Available Length: 1000MM (0.5m-3m Optional)
Application: Commercial lighting/Indoor lighting/Decorative design



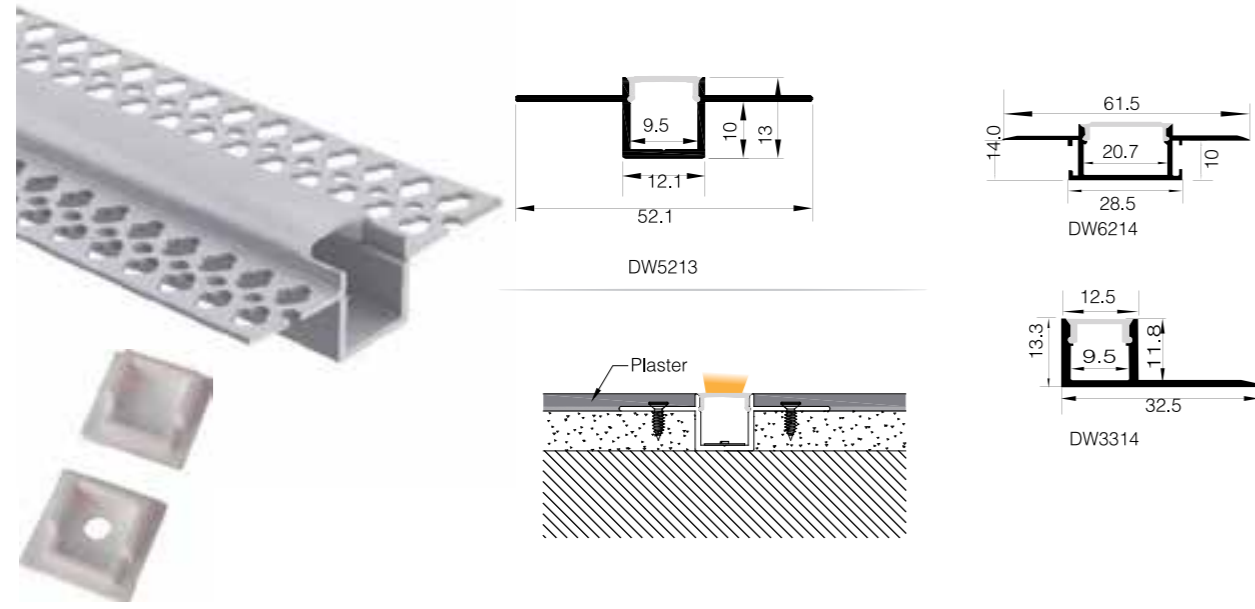
More Models:



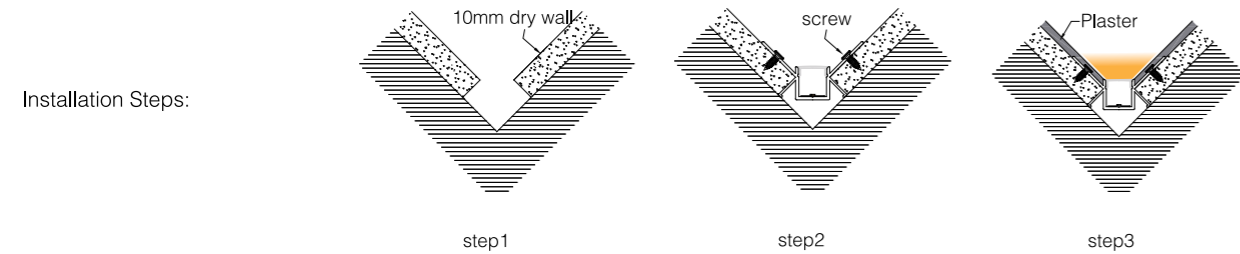
Wall Mounted Aluminium Profile

Model	Dimensions	Installation	Accessories	Lightsource
AP1341			1.Cover:Transparent Milky /Diffused 2.alu end cap 3.mounting profile	6-12mm PCB <20W/m flex LED strips:
AP1468			1.Cover:Transparent Milky /Diffused 2.alu end cap 3.mounting profile	6-10mm PCB <20W/m flex LED strips:
AP1735			1.Cover:Transparent Milky /Diffused 2.alu end cap 3.mounting clips	6-12mm PCB <25W/m flex LED strips:
AP4285			1.Cover:Transparent Milky /Diffused 2.alu end cap 3.mounting clips	10-20mm PCB <36W/m flex LED strips:
AP4538S			1.Cover:Transparent Milky /Diffused 2.alu end cap	10-20mm PCB <24W/m flex LED strips:
DW10168			1.Cover:Transparent Milky /Diffused 2.alu end cap 3.wall-ceiling mounting clip 4.ceiling-ceiling mounting clip	10-20mm PCB <30W/m flex LED strips:

Constructional Plaster Dry Wall Aluminum Profile



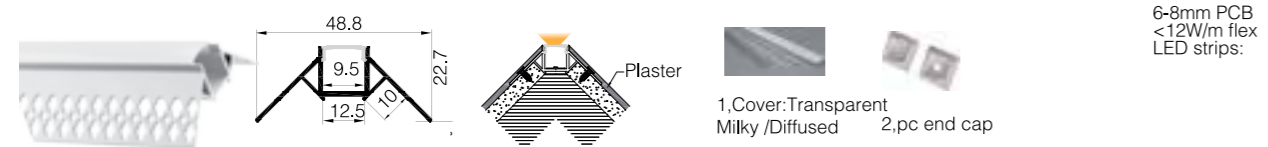
Matching LED strips: 6-10mm width LED strips, <20W/m.



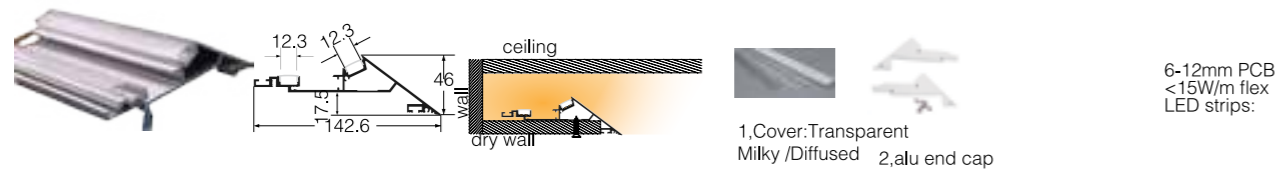
DW4426 Dimensions Installation Accessories Lightsource



DW4923 Dimensions Installation Accessories Lightsource



DW14346 Dimensions Installation Accessories Lightsource



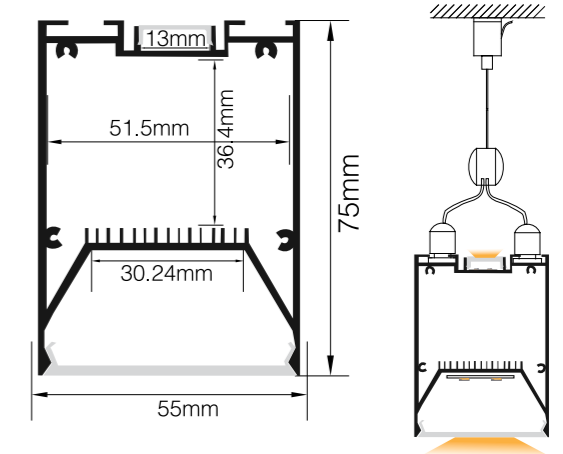
Big Size Suspended LED Linear Fixture

AP5575

Up & down linear light Intriduction

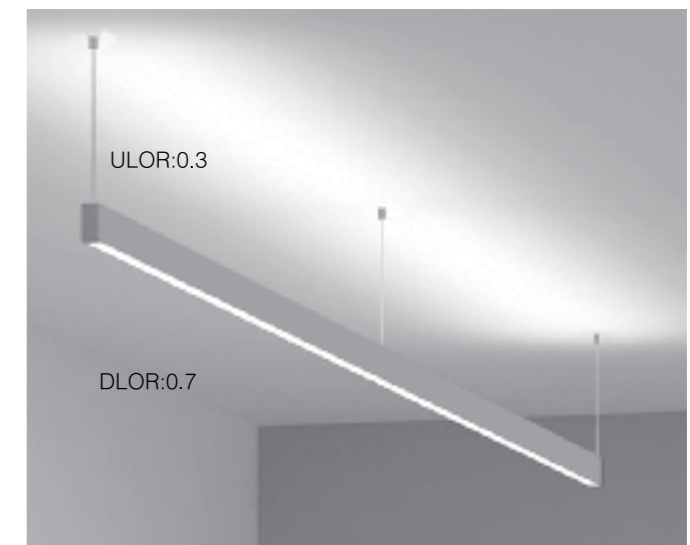
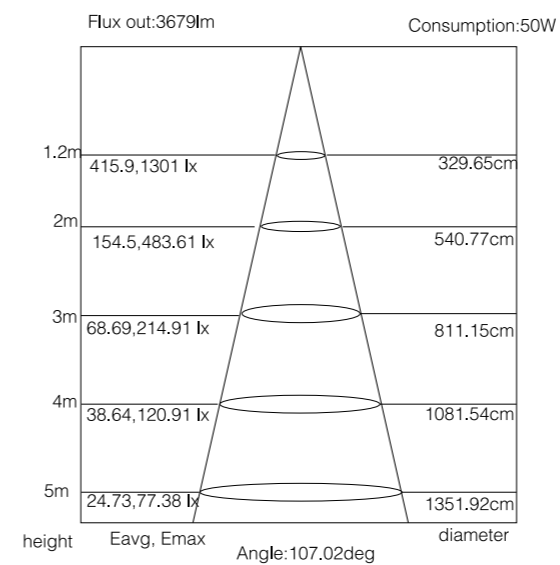
- * LED Chip: Epistar 2835SMD, LM 80
- * Used for suspension lighting, Light up and down
- * Can be dimmable (Triac, 0-10V, Dali dimmable optional)
- * Warranty: 3 years (5 years optional)

Suspended Accessories



Parameter:

Model	AP5575-09	AP5575-12	AP5575-15
Watt	38W	50W	70W
Input	AC110-240V 50~60Hz, THD<9%, PF>0.9		
LED Type	144pcs 0.2W	192pcs 0.2W	288pcs 0.2W
Cover:	Milky / Forst / Transparent		
CCT:	WW 2800-3200K, NW 4000-4500K, CW 6000-6500K CRI>80Ra		
Lamp Housing color:	White/Silver/Black(optional) Anodized Oxidation		
Installation:	Suspended (Brown/L, blue/N, yellow, green/G)		
Luminous Flux:	3400-3600LM	3700-4000LM	5700-6000LM
Beam angle:	120degree		
Working ambient:	-20- +70°C, IP50		



Note: The curves indicate the illuminated area and the average illumination when the luminaire is at the different distance

Light Source for Linear Fixture

Constant Current PCB for higher Luminous Efficiency



SMD2835-160
 Length: 5m
 Light Source: SMD2835
 LED quantity: 160pcs/m
 CRI: >RA80
 Power: 16.6W/m
 CCT: 2600-6500K
 Lumen: 2648lm/m
 Voltage: DC24V
 PCB Width: 12mm



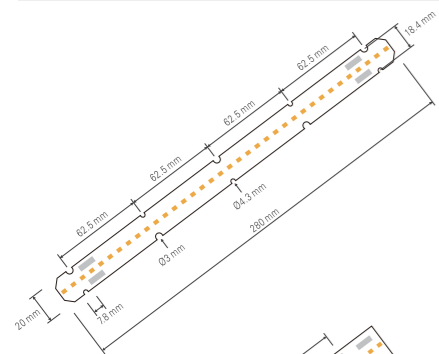
SMD2835-320
 Length: 2.5m
 Light Source: SMD2835
 LED quantity: 320pcs/m
 CRI: >RA80
 Power: 33.3W/m
 CCT: 2600-6500K
 Lumen: 5140lm/m
 Voltage: DC24V
 PCB Width: 24mm



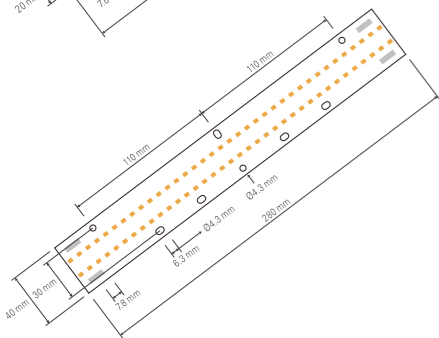
SMD2835-320
 Length: 2.5m
 Light Source: SMD2835
 LED quantity: 320pcs/m
 CRI: >RA80
 Power: 33.3W/m
 CCT: 2600-6500K
 Lumen: 4971lm/m
 Voltage: DC24V
 PCB Width: 30mm



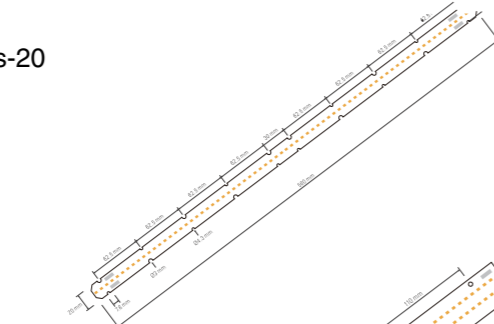
SMD2835-480
 Length: 2.5m
 Light Source: SMD2835
 LED quantity: 480pcs/m
 CRI: >RA80
 Power: 40W/m
 CCT: 2600-6500K
 Lumen: 6030lm/m
 Voltage: DC24V
 PCB Width: 40mm



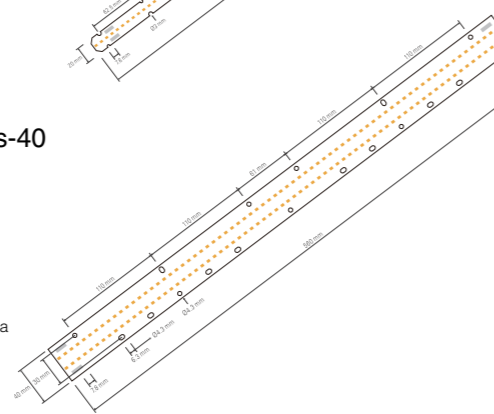
SMD2835-36pcs-20
 Length unit:280mm
 Light source:SMD2835
 LED Q'ty :36pcs/module
 Cri:>80Ra
 Power:6.5W/module
 CCT:2600-6500K
 Lumen:800@3000K@80Ra
 Voltage:32-37V
 Pcb width:20mm
 Max length:8pcs



SMD2835-72pcs-40
 Length unit:280mm
 Light source:SMD2835
 LED Q'ty :72pcs/module
 Cri:>80Ra
 Power:13W/module
 CCT:2600-6500K
 Lumen:1561@3000K@80Ra
 Voltage:32-37V
 Pcb width:40mm
 Max length:8pcs

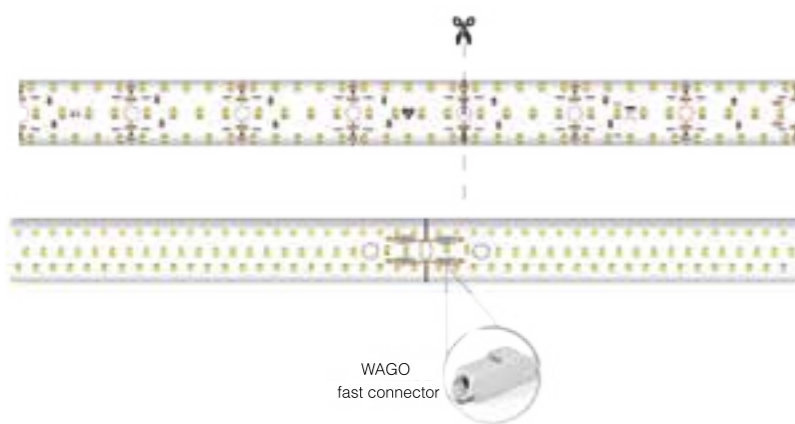


SMD2835-72pcs-20
 Length unit:560mm
 Light source:SMD2835
 LED Q'ty :72pcs/module
 Cri:>80Ra
 Power:13W/module
 CCT:2600-6500K
 Lumen:1590@3000K@80Ra
 Voltage:32-37V
 Pcb width:20mm
 Max length:4pcs



SMD2835-144pcs-40
 Length unit:560mm
 Light source:SMD2835
 LED Q'ty :144pcs/module
 Cri:>80Ra
 Power:26W/module
 CCT:2600-6500K
 Lumen:3211@3000K@80Ra
 Voltage:32-37V
 Pcb width:40mm
 Max length:4pcs

Constant Voltage PCB for easier&longer joint



Linear Fixture Accessory



Mounting clip



Accessories of pendant mounted



Accessories of ceiling mounted



Accessories of LED lens for led linear



T connector



"L"form Connector



"X"form Connector



IL connector



"T"form Connect method



"X"form Connect method


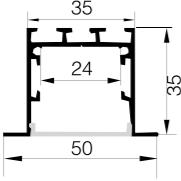
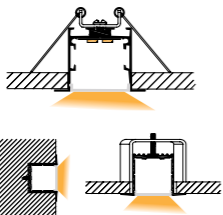




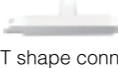



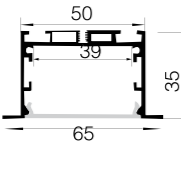
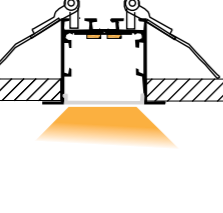




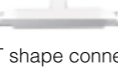



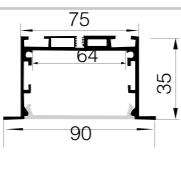
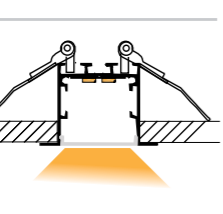
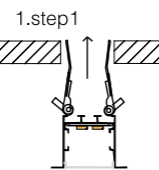
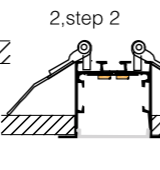

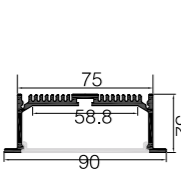
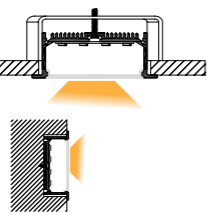




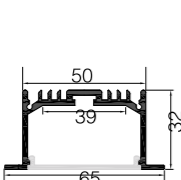
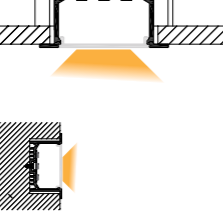









Aluminium profile + Anti-glare cover



Driver

Big Size Recessed Aluminium Profile

















AP3535SW	Dimensions	Installation	Accessories	Lightsource
			   1. Cover: Transparent Milky /Diffused 2. alu end cap 3. spring clips   4. IL shape connector 5. T shape connector  6. X shape connector  7. L shape connector	10-24mm PCB <28W/m flex LED strips:
			   1. Cover: Transparent Milky /Diffused 2. pc end cap 3. spring clips   4. IL shape connector 5. T shape connector  6. X shape connector  4. L shape connector	10-39mm PCB <36W/m flex double rows LED strips:
			  1. step 1 2. step 2	20-58mm PCB <45W/m flex double rows LED strips:
			   1. Cover: Transparent Milky /Diffused 2. alu end cap 3. mounting clips	20-58mm PCB <42W/m flex LED strips:
			   1. Cover: Transparent Milky /Diffused 2. alu end cap 3. mounting clips   4. IL shape connector 5. T shape connector  6. X shape connector  7. L shape connector	10-39mm PCB <36W/m flex double rows LED strips:



INGRESS PROTECTION

IP Ratings are an international numeric classification to indicate the degrees of protection provided by enclosures for electrical equipment against water and solid object accordance with IEC 60598-1:2003.

IPXX

	0 No protection against contact and ingress of objects		0 No protection against ingress of water
	1 Protected against solid objects Ø>50 mm and greater, such as the back of a hand		1 Protected against dripping water; vertically falling drops shall have no harmful effect on the device when mounted in a normal position.
	2 Protected against solid objects Ø>12.5 mm and greater, such as Fingers or similar objects		2 Protected against dripping water; vertically falling drops shall have no harmful effect on the device when the enclosure is tilted at an angle of 15° from its normal position
	3 Protected against solid objects Ø>2.5 and greater, such as tools, thick wires, etc.		3 Protected against water falling as a spray at any angle up to 60° from the vertical line.
	4 Protected against solid objects Ø>1 mm and greater, such as wires, large ants etc.		4 Protected against splashing water; water splashed against the enclosure from any direction shall have no harmful effect.
	5 Dust protected, ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.		5 Water projected by a nozzle (6.3 mm) under 30kPa pressure at distance of 3 meter from any direction shall have no harmful effects
	6 Dust-tight, no ingress of dust; complete protection against dust (dusttight).		6 Water projected in powerful jets (12.5 mm) under 100kPa pressure at distance of 3 meter from any direction shall have no harmful effects.
			7 protected against the effects of temporary immersion of water; no harmful effect is possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 meter maximum of submersion).
			8 The equipment is suitable for continuous immersion in water as per the conditions specified by the manufacturer.

IMPACT PROTECTION

IK Ratings are an international numeric classification to indicate the degrees of protection provided by enclosures against external mechanical impacts in accordance with IEC 62262:2002 and IEC 60068-

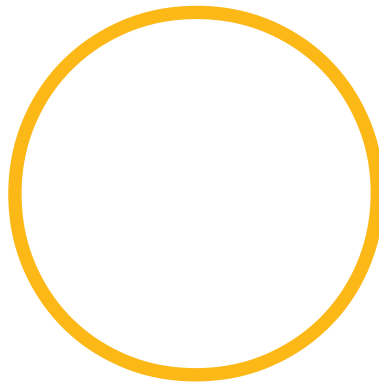
IKXX

00	No protection	06	Protected against 0.25kg mass of impact dropped from 400mm above the impacted surface.
01	Protected against 0.25kg mass of impact dropped from 56mm above the impacted surface.	07	Protected against 0.5kg mass of impact dropped from 400mm above the impacted surface.
02	Protected against 0.25kg mass of impact dropped from 80mm above the impacted surface.	08	Protected against 1.7kg mass of impact dropped from 300mm above the impacted surface.
03	Protected against 0.2kg mass of impact dropped from 140mm above the impacted surface.	09	Protected against 5kg mass of impact dropped from 200mm above the impacted surface.
04	Protected against 0.25kg mass of impact dropped from 200mm above the impacted surface.	10	Protected against 5kg mass of impact dropped from 400mm above the impacted surface.
05	Protected against 0.25kg mass of impact dropped from 280mm above the impacted surface.		

REFERENCE STANDARDS

<ul style="list-style-type: none"> • SASO 2902 • SASO 2927:2019 • IES 610000-3-2 • IEC 62471 • IEC TR 62778 • IEC 60598-1/2017 • IEC 61547:2009 • IEC 61643-11:2011 • IES LM-79-08 • IES LM-80-08 • IES LM-82-12 • IES LM-84-14 • ISTMT • IES TM21-11 es • IES TM28-14 • IEC 60529:2013 • ISO 9227:2017 • ISO 4628-2:2016 	<ul style="list-style-type: none"> • Energy efficiency, functionality and labeling requirements for lighting products (part 2). • Energy efficiency functionality and labeling requirements for lighting products-part 3: Street lighting • Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current 16 A per phase) • Photo biological Safety of Lamps and Lamp Systems • Application of 62471 to light sources and luminaires (blue light) • Luminaires - Part 1: General requirements and tests. • Equipment for general lighting purposes - EMC immunity requirements • Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems Requirements and test methods • Electrical and photometric measurements of Solid State lighting products. • Measuring lumen maintenance of LED Light sources. • Method for characterisation of LED light Engines and Integrated LED lamps for Electrical properties as a function of the temperature. • Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires. • In-SITU Temperature Measurement Testing • Projecting long term lumen maintenance of LED light sources • Projecting long-term luminous flux maintenance of LED lamps and luminaires • Degrees of protection provided by enclosures (IP Code) • Corrosion tests in artificial atmospheres Salt spray tests. • Paints and varnishes - Evaluation of degradation of coatings Designation of quantity and size of defects, and of intensity.
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