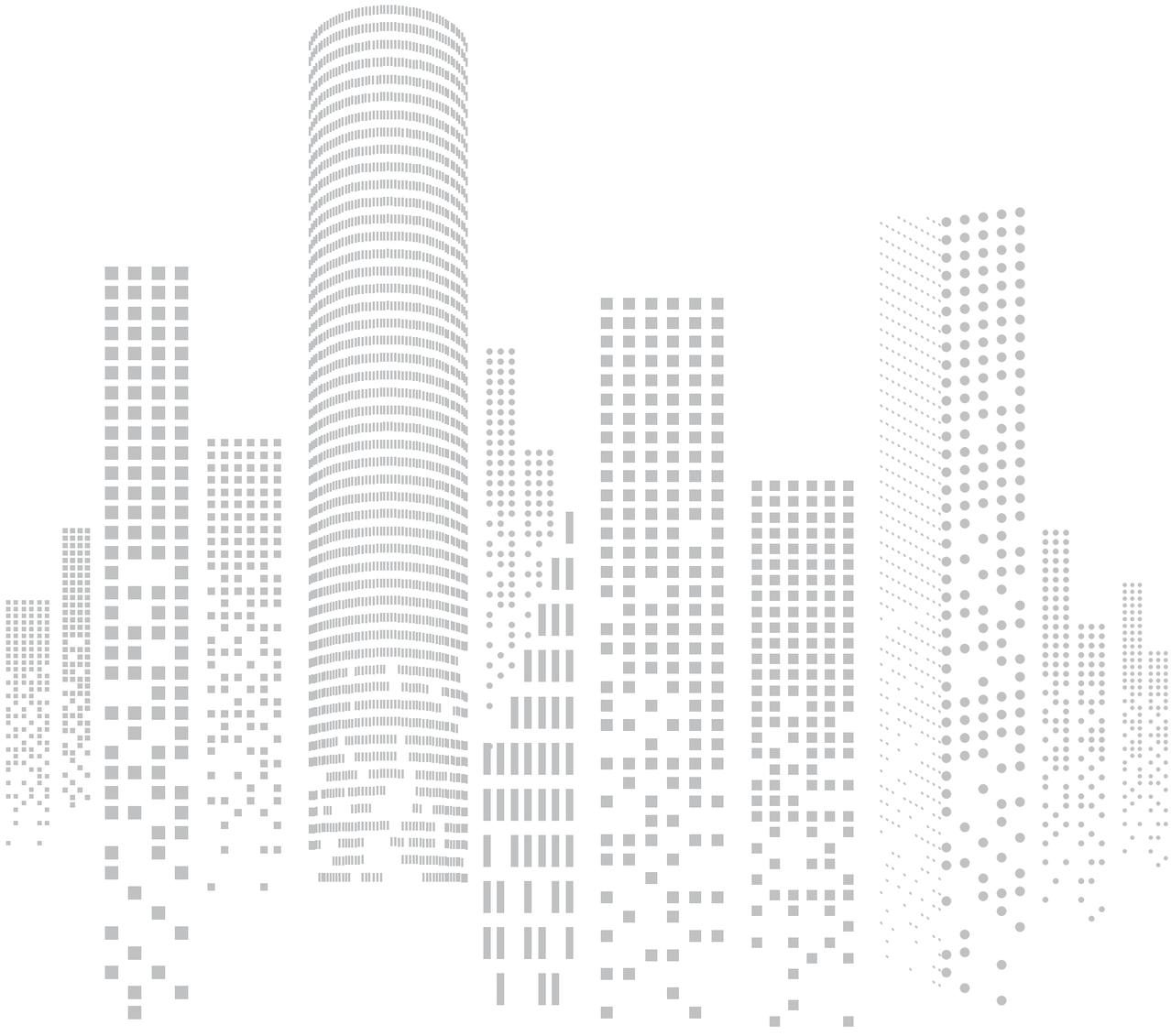
ARCHITECTURAL FAÇADE LIGHTING

LINEAR LIGHTING PRODUCT SOLUTIONS



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CREATING AN IDEAL LIGHTING SPACE FOR THE WORLD

ABOUT COLORS

HUACAI OPTO CO., LTD. (COLORS), founded in 2008, is a national high-tech enterprise specializing in LED lighting. It has incubated a forefront-ranked brand-COLORS in the segmented domain, proficient in providing comprehensive lighting solutions for residential, office, commercial scenarios and the like,

Dedicated to Lighting Excellence
Since 2008, we have continuously advanced our expertise, now standing as the industry leader in this specialized field.

Group Company
Headquartered in Shenzhen, and more branches layout in the Yangzhou and Jiangmen.

Production Base
2 self-established factories in Yangzhou and Jiangmen, covering an area of 45,000m². Featured in stable high-quality, strong production capacity and quick delivery.

Product System
The full product system includes led strips, neon strips, linear lights, track lights and downlights. Proficient in providing compreensive lighting solution for residential, office,commercial scenes etc.

Certification System
Qualified for ISO9001 Quality System Certification, ISO14001 Environmental System Certification and product certifications inclusive of CE, UL and CCC etc.

Independent R&D
Sticks to independent R&D and intellectual property management. Qualified for the title of National High-tech Enterprise, and repeatedly gained international design awards inclusive of IF, IDEA, RED DOT and GOLDEN PIN etc.

International Brand
Registered trademarks in 30 countries and regions worldwide and carried out more than 20 promotional tours throughout the year. Brand partners are worldwide distributed.

Global Market
Products are exported to over 100 countries and regions worldwide. Dominates the European market and cooperates with many major well-known brands.

CONTENTS

Architectural Facade Lighting

Architectural Facade Lighting 6
Pain Points in Facade Lighting Products 22
Core Technologies of COLORS Products 24
Facade Lighting Testing and Certification 28
Product Portfolio 30
Quick Product Application Reference 32
Project Cases 40

Product Series

Facade Lighting Product System Directory 44
Product Specification Document 46
ARCH NEON
AF Weather Fastness Series 56
AH Free Cutting Series 90
AC Series 124
LED STRIPS
High-voltage Series 138
Ultra-long Series 142
CSP Dot Series 146
WALL WASHING STRIPS
Lens Series 150

Support And Services

Full-Process Project Service 170
Design Definition 172
Project Drawings 174
Product Supply 176
Installation Guidance 177
On-Site Support 178
Knowledge Q&A 180

01

ARCHITECTURAL FACADE LIGHTING

Definition

Architectural facade lighting is a technical approach involving systematic lighting design for the external surfaces of buildings using artificial light sources. Its primary objectives are to reshape a building's nighttime image through artistic expressions of light, highlight its morphological features, material textures, and cultural connotations, while achieving harmonious coexistence with the urban environment.

Core Elements

Integrating technical factors such as luminaire selection, beam control, and installation craftsmanship, methods like spotlighting, backlighting, contour lighting, focal point lighting, and dynamic lighting are employed. Through light-shadow contrast, dynamic changes, and color coordination, these techniques endow buildings with nighttime "personalities," while concurrently fulfilling goals such as safety guidance, environmental harmony, and energy consumption control.

Key Values

Aesthetic Value : Reinforcing the interpenetration of modern architectural volumes through floodlighting. Highlighting material details via grazing light. Enabling architectural "expression" changes through programmable LED systems.

Functional Value : Enhancing cornice lines with horizontal separation lighting to guide pedestrian visual flow. Integrating emergency lighting systems with primary lighting to ensure critical path recognizability during emergencies.

Economic Value : Premium lighting design can increase commercial building rents by 15%-20%, enhancing asset value through improved aesthetics. Smart control systems (e.g., DALI protocol) enable time-division and zone-based management, reducing long-term operation and maintenance costs.

Social Value : Urban street lighting renovations strengthen residents' sense of belonging and sustain community cultural identity and cohesion. Interactive projections showcasing architectural history and humanities serve public education purposes.

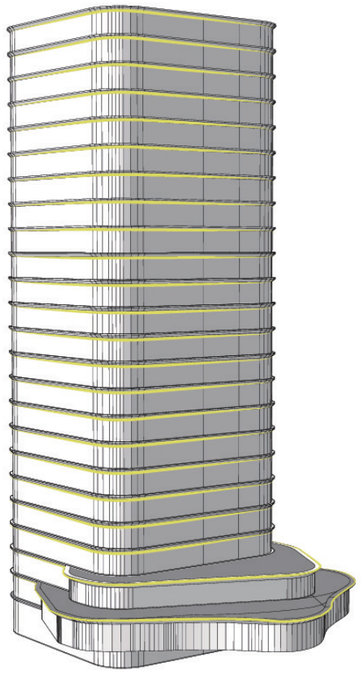
Technological Iteration Value : Integration of flexible perovskite photovoltaic films with luminaires achieves "grid-independent" lighting, driving material innovation. Adoption of digital twin technology to build city-level light-shadow simulation systems, fostering a harmonious nighttime light environment between humans and nature.

ARCHITECTURAL FACADE LIGHTING

High-Rise Landmark Buildings

As "urban regional landmarks", the design emphasizes enhancing architectural height and massing through lighting, while balancing energy efficiency and light pollution control. Dynamic lighting and intelligent control systems are mainstream trends, enabling diverse visual effects from festival-themed dynamics to daily ambient gradients.Prioritizes vertical illuminance and uniformity, balancing overall building brightness with local details to avoid glare affecting the surrounding environment.

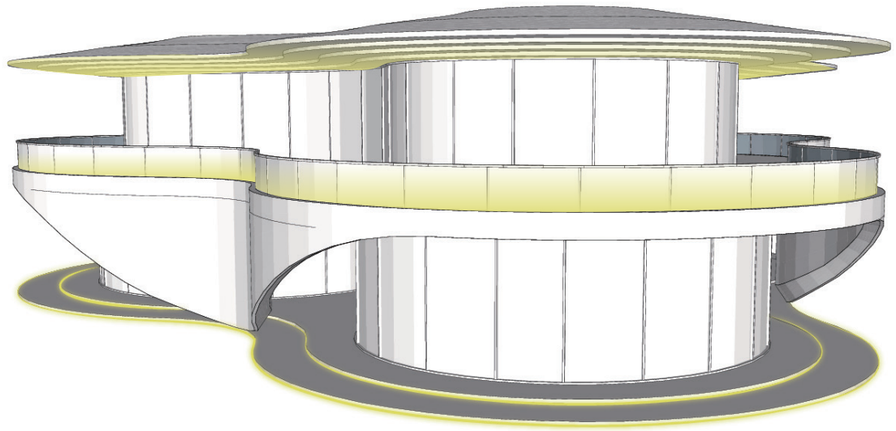
Adopts "Contour Lighting + Flood Lighting", using linear lights along rooftops and edges combined with long-range projection to create a clear urban skyline. Implements intelligent dimming to automatically adjust brightness and dynamic effects by time slots. Requires high-efficiency luminaires with professional light distribution to minimize diffused light pollution and achieve energy conservation.



Public Cultural Buildings

Core Concept: Serving as "carriers of public life", the design restores architectural texture through precise projection while integrating cutting-edge lighting technologies for cultural storytelling. Non-contact projection and dynamic light art are trending, with long-range lighting preserving original structures and inner transmission lighting connecting indoor-outdoor spaces.Focuses on flexible multi-mode lighting to balance architectural functions, public safety, and humanistic care.

Uses "Façade Projection + Under-Eave Flooding + Grazing Lighting" to highlight material textures and architectural temperament. Integrates projection technology for cultural narratives (e.g., historical scroll projections on museum facades). Employs concealed design, hiding luminaires within architectural structures or components to achieve a "no visible fixtures during daytime" effect.

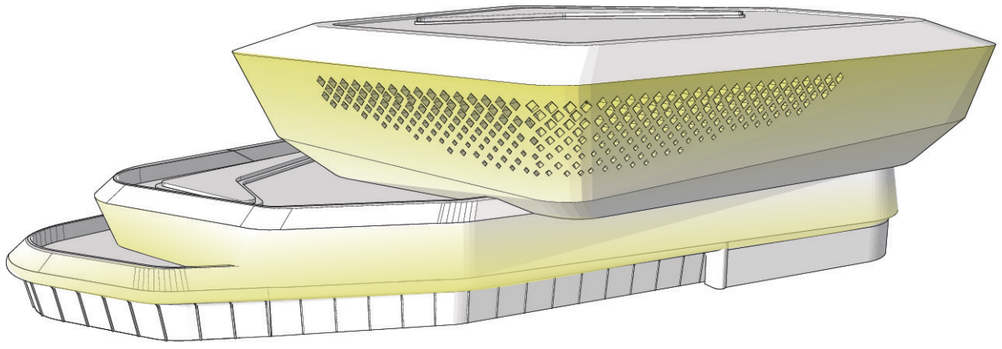


ARCHITECTURAL FACADE LIGHTING

Commercial Block Buildings

Design Objective: Oriented toward "consumer attraction", the design stimulates commercial vitality through dynamic lighting and interactive experiences. Multi-dimensional light environment design (color temperature zoning, brightness gradients) and creating harmonious blends of nature and urban ambiance are emerging trends.Enhances vertical illuminance for window displays and guides customer flow via dynamic lighting to improve shopping experiences.

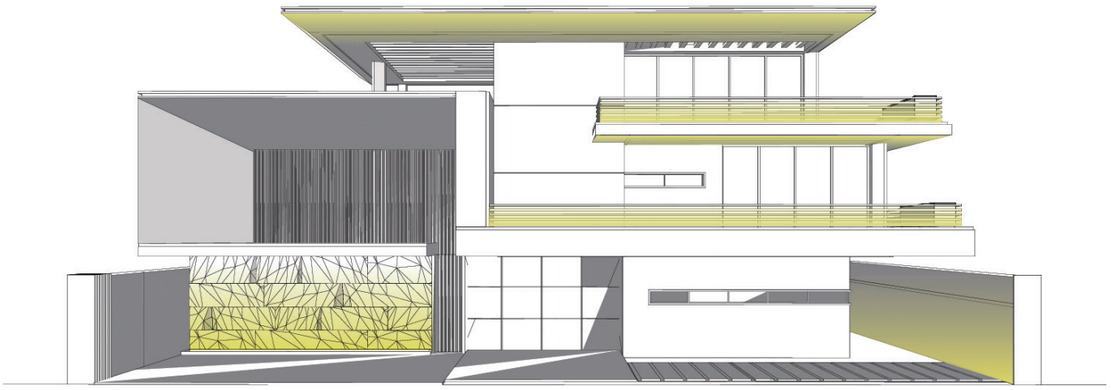
Creates layered facade environments with varying color temperatures (e.g., warm 3000K for podium zones vs. cool 4000K for towers). Installs touch-sensitive screens or dynamic light games for interactive engagement. Utilizes natural light sensors and time-sharing control to reduce energy consumption during non-business hours.

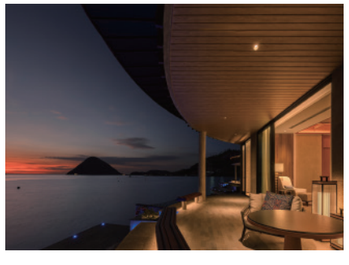


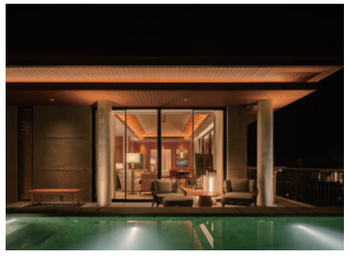
Low-Rise Residential Buildings

Core Focus: Centered on "livable living experiences", the design uses soft lighting to create privacy and a sense of belonging. Personalized customization and smart security lighting are mainstream, with linear light strips and motion-sensor lighting commonly used in villa designs.Balances functionality and aesthetics, avoiding excessive 亮化 (brightening) that invades privacy, while integrating luminaires with architectural materials.

Employs multi-layered lighting: indirect light for facades and low-position ambient lighting for courtyards to avoid glare. Matches lighting techniques to architectural styles (e.g., linear light strips for modern villas). Implements intelligent control with motion sensors and natural light adjustment for energy-efficient "auto-on/off" functionality.







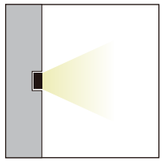
ILLUMINATION APPROACH FOR BUILDING FACADES

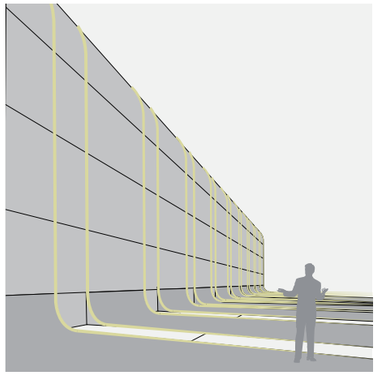
1. Under Eave Lighting
2. Contour Lighting
3. Cove Lighting
4. Facade Grazing Light-Upwards
5. Facade Grazing Light-Downwards
6. Flood Lighting
7. Low Position Ambient Light
8. Inner Transmission Lighting
9. Digital Lighting

INSTALLATION NODES IN LIGHTING DESIGN

Contour Lighting

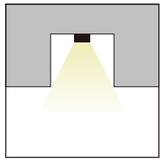
Using linear lights along building edges or object perimeters to outline shapes through light-dark contrast. Functionally enhances nighttime shape recognition with a minimalist visual effect, characterized by "light as line" abstraction. Applicable to roof eaves, bridge railings, sculpture frames, etc., commonly seen in urban landmarks (e.g., skyscraper top contours) and ancient architecture cornice lighting.

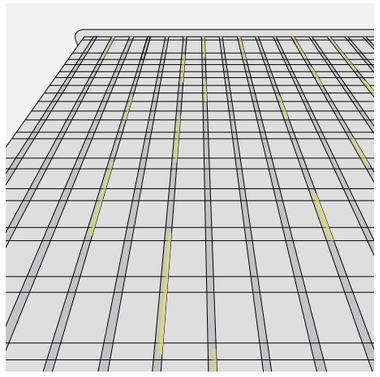




Digital Lighting

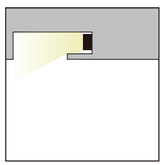
Using programmable LED fixtures (pixel lights, wall washer matrices, RGB strips) to achieve dynamic effects (color changes, pattern flows, rhythmic flashing) via control software. Enhances interactivity and timeliness, creating immersive experiences. Fits commercial facades, theme parks, and festival venues, often paired with music/video for light shows.

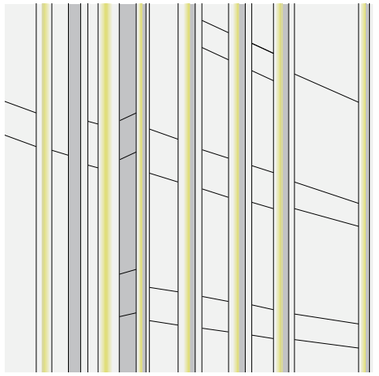


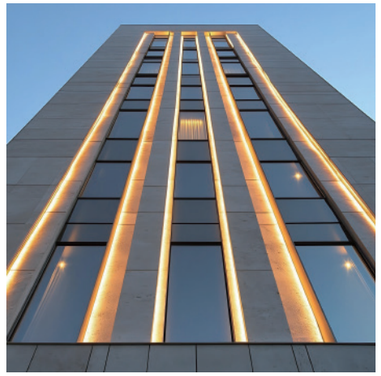


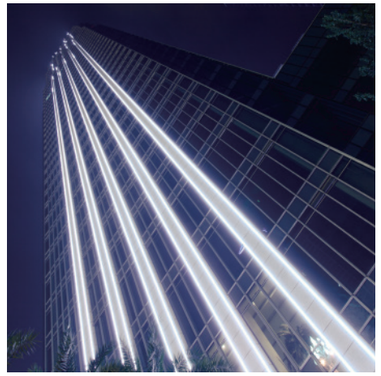
Cove Lighting

Hiding light sources in architectural recesses (e.g., ceiling coves or facade slots) to create indirect lighting via reflection/diffusion. Provides soft ambient light, reduces direct glare, and builds subtle spatial layers. Highlights the "light without fixtures" concealment, enhancing softness with diffusive materials. Suitable for indoor/outdoor ceiling edges, structural recesses, handrail interiors, and landscape retaining walls requiring indirect lighting.





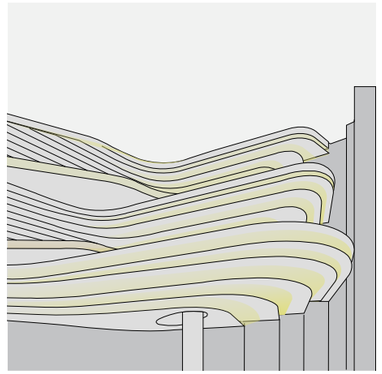




INSTALLATION NODES IN LIGHTING DESIGN

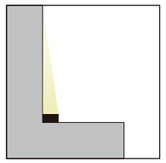
Under Eave Lighting

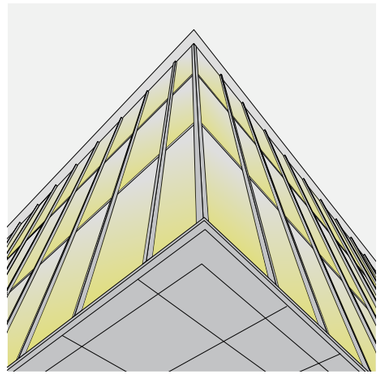
Installing projectors under or inside building eaves to cast upward/outward light on cornice details (e.g., brackets, decorative moldings). Enhances top-layer hierarchy of facades and balances vertical brightness ratios. Features light-shadow contrast to emphasize cornice three-dimensionality, ideal for ancient architecture eaves or modern cantilever structures.

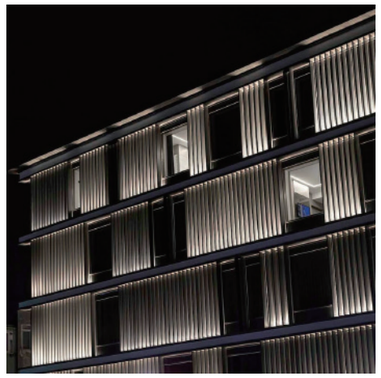


Facade Grazing Light-Upwards

Positioning fixtures near wall bases to project narrow beams upward, emphasizing texture undulations via inverse light-shadow contrast, especially for bottom details. Creates dramatic effects with bottom-up lighting, ideal for museum exteriors, religious building pedestals, or modern art installations.

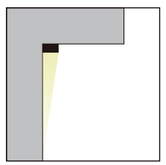


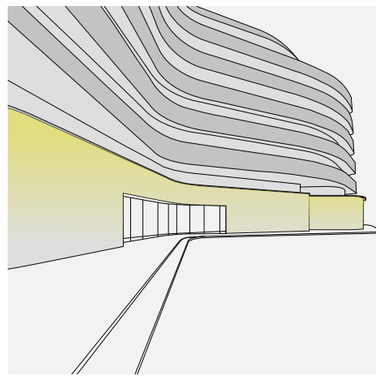




Facade Grazing Light-Downwards

Mounting fixtures close to wall tops to project narrow beams downward, revealing concave-convex textures (e.g., brick joints, reliefs) through subtle shadowing. Strengthens tactile perception of rough materials (stone, concrete, handcrafted bricks), suitable for historic building restorations and cultural venue facades.

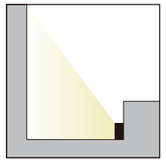


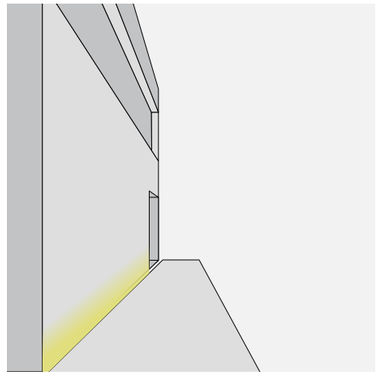


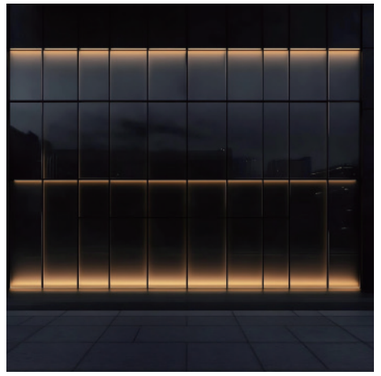
INSTALLATION NODES IN LIGHTING DESIGN

Low Position Ambient Light

Using low-mounted fixtures (ground lights, step lights, lawn lamps) to emit soft, glare-free light for near-ground comfort. Enhances pedestrian safety and approachability in slow-paced environments. Applies to walkways, hotel courtyards, and residential gardens, often layered with high-mast lighting for vertical illuminance gradients.

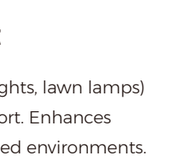


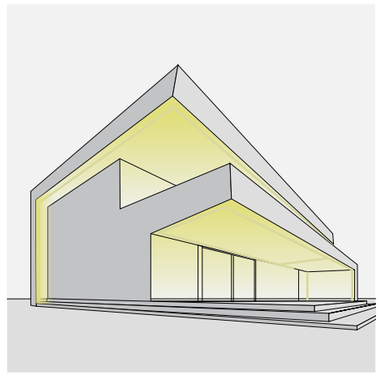




Flood Lighting

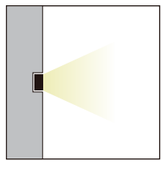
Using high-power floodlights to evenly illuminate a large area, providing base ambient lighting, and meeting functional visual needs. Features include wide coverage, uniform brightness, and emphasis on overall form over local details. Suitable for squares, parking lots, stadiums, and large open spaces, highlighting the volume of industrial buildings or warehouses.

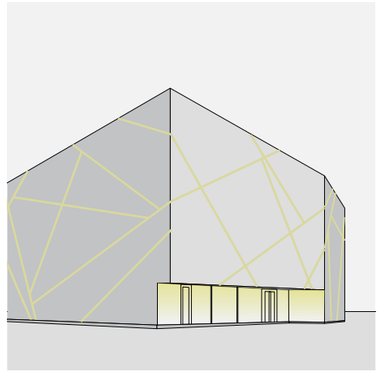




Stylish Lighting

Breaking traditional fixture forms to create artistic light installations (e.g., biomimetic lamps, light sculptures, modular designs), emphasizing creativity and spatial storytelling. "Fixtures as art" integrates aesthetics and functionality, applied to building facades, cultural parks, public art spaces, and luxury hotel lobbies.

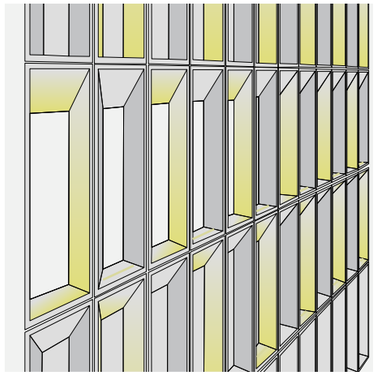


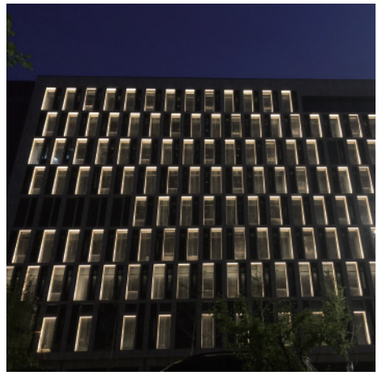


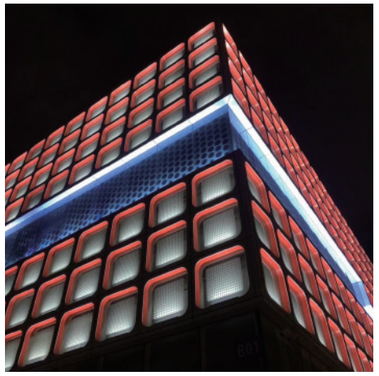
INSTALLATION NODES IN LIGHTING DESIGN

Window Frame Lighting

Illuminating all four sides (top/bottom/left/right) of window frames with recessed linear lights or mini projectors to enhance structural rhythm and 3D layers. Transforms windows into facade focal points, improving nighttime readability of details. Features brightness differentiation (front sides highlighted, sides recessed) for depth, suitable for commercial complexes and libraries with high window-wall ratios.

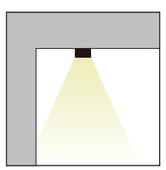


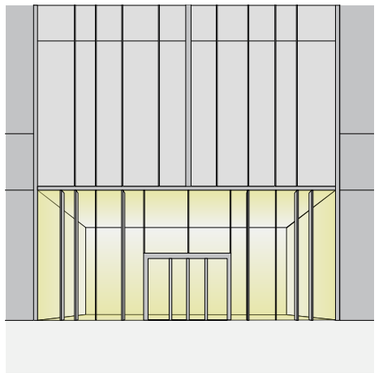




Inner Transmission Lighting

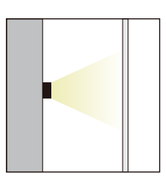
Placing light sources inside objects (e.g., glass curtain wall cavities) to emit light through translucent materials (glass, acrylic, silk), creating a light and airy effect. Minimizes fixture visibility while highlighting material translucency, ideal for "luminous body" imagery in stained glass churches or modern glass box buildings.

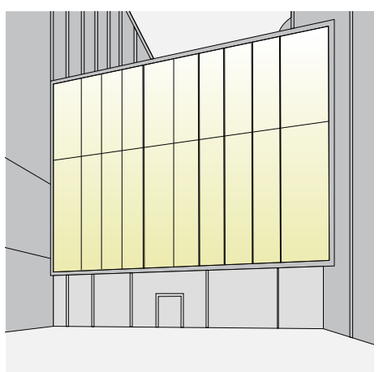


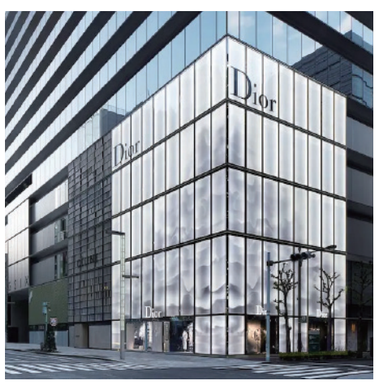


Lightbox

Combining diffused panels such as opal acrylic with LED backlight modules creates a uniform luminous surface, ideal for displaying graphics or decorative patterns. Features include high brightness and visual focus; content can be updated by replacing panels. Suitable for retail signage, subway wayfinding, and exhibition backdrops.





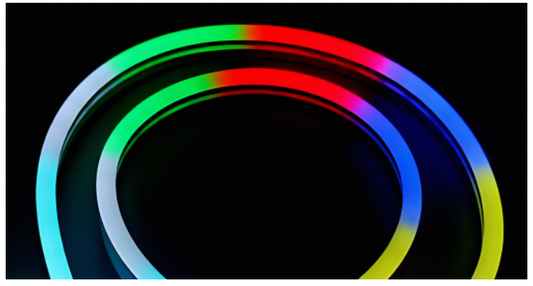


PAIN POINTS IN FACADE LIGHTING PRODUCTS

Light Output Issues

Inconsistent light color between different batches of the same model and configuration; mixing batches results in color deviation.

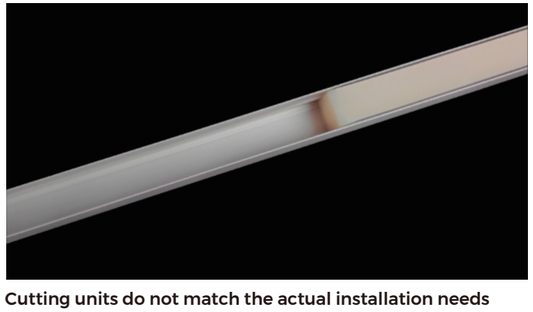
Low luminous efficacy; for façade lighting where higher brightness is needed, increased wattage leads to higher power consumption.



Dynamic RGB (chasing) effects lack smoothness

Installation Efficiency

Complex façade wiring and installation increase the risk of product damage during construction

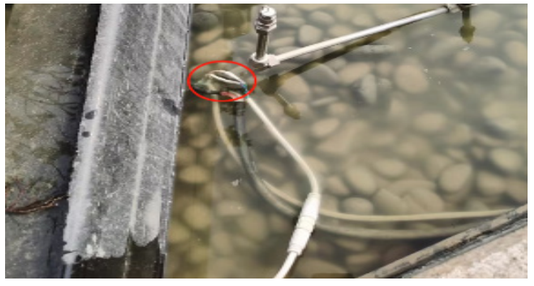


Cutting units do not match the actual installation needs

Weather Resistance

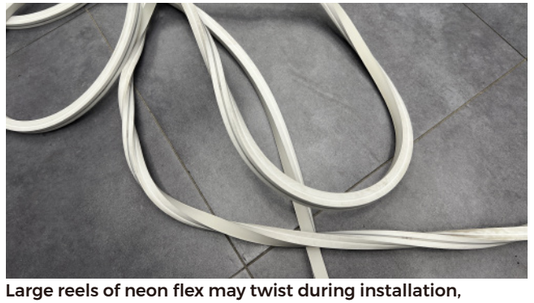
Performance limitations in extreme cold or hot weather conditions.

Yellowing of products after prolonged outdoor exposure.



Water ingress into cables during long-term outdoor use.

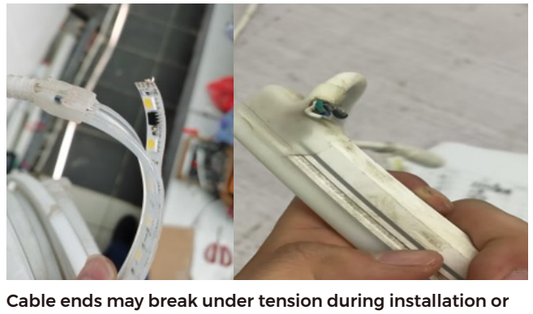
Reliability



Large reels of neon flex may twist during installation, causing LED failures.

A single LED failure can cause a visible dark segment; the replacement cost for building façades is high.

PCB fracture caused by profile misalignment, vertical hanging load, or incorrect installation results in partial dark segments.



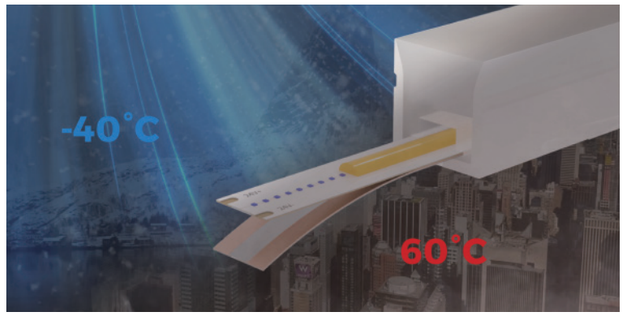
Cable ends may break under tension during installation or use.

CORE TECHNOLOGIES OF COLORS PRODUCTS

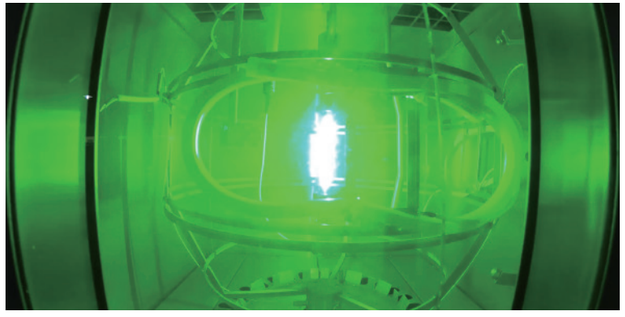
Super Weather Resistance

It withstands extreme cold and heat, resists UV-induced yellowing, and prevents siphonage phenomenon and water seepage.

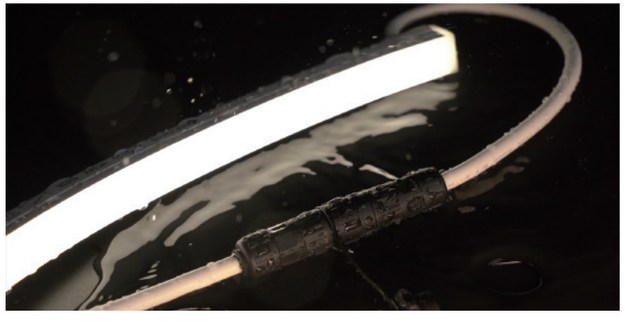
Advanced Flip-Chip Technology – Super Durable Under Extreme Cold and Heat working Situation
Worry free used in the environment of -40˚C to +60˚C.



Gas-Phase Silicone Extrusion Process – UV and Yellowing Resistance
High-intensity 3000 hours UV test, equivalent to 9 years of outdoor use, almost no yellowing.



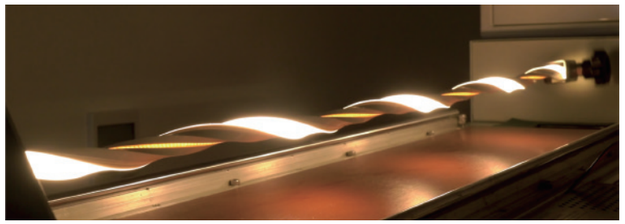
End cap & Cable outlet & Terminal wire Triple Protection – No Worry About Siphonage and Water Seepage
Uniform materials for the neon, end cap and terminal wire. Used integrated hot melt molding process, dual-layer protective terminal ensure IP67 protection against rain and water immersion.



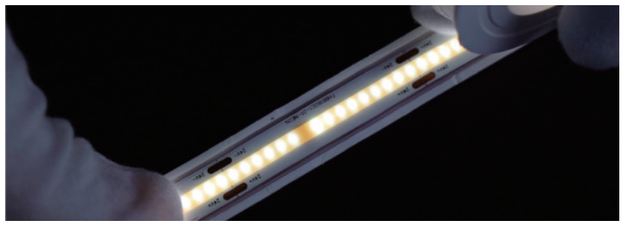
Super Durable

Anti-Dead Leds, Anti-breakage PCB, Anti- forceful tugging.

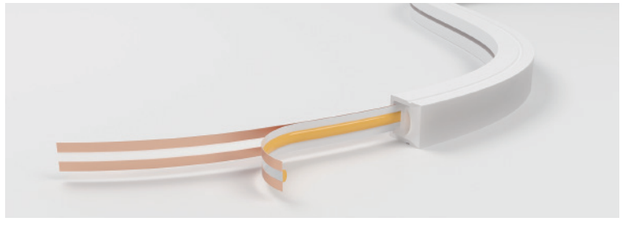
The AF Series adopts flip-chip LED technology, and anti-dead LEDs, ensuring superior mechanical performance.
It has passed a rigorous 720˚ torsion test repeated 5,000 times.



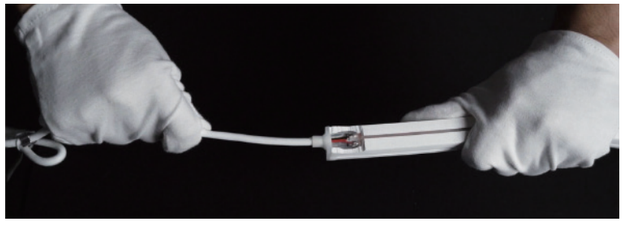
Dual Chips Parallel LEDs Technology – Anti-Dead Chips Without Dark Area
Special chip design, single chip breakage no affect the light effect.



The R2R production process reduces soldering points and incorporates a dual power supply system with a back wiring board. Even if a segment is damaged, power delivery remains unaffected, and the LED strip continues to function normally.
The back wiring process also enables the product to pass a 650N tensile strength test.



Reinforced Wire Soldering Technology – Withstands Installation Stresses
Designed to overcome external forces such as pressing, pulling, and tugging during installation.

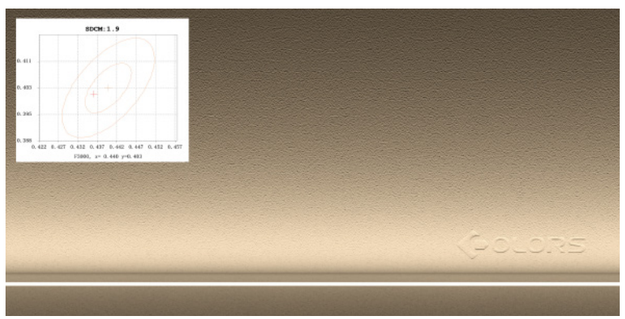


CORE TECHNOLOGIES OF COLORS PRODUCTS

Superior Light Quality

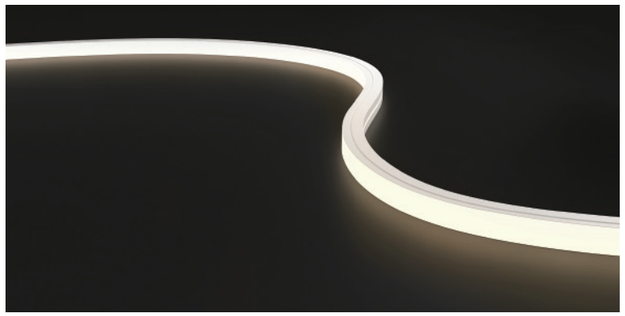
Uniform, soft and consist color, smooth dynamic color effects.

Precision-Controlled Color Temperature After Silicone Coated
SDCM<5, ensuring color consistency.

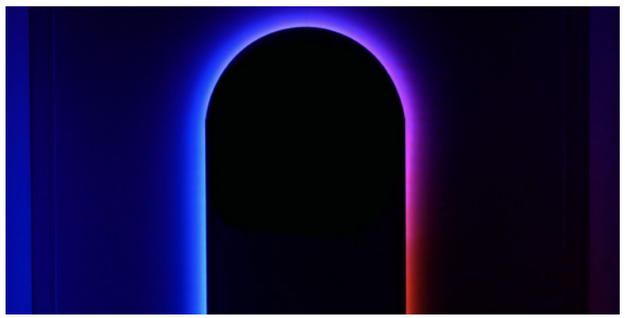


ANSI
SDCM<5

Upgraded Light-Emitting Structure, Even Color Without Dark Area On Surface



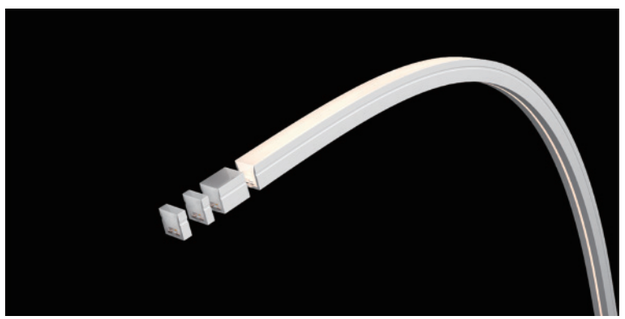
65536 Level Grayscale – compatible with all kinds of DMX system
DMX compatibility upgrade, multiple controller brands used freely



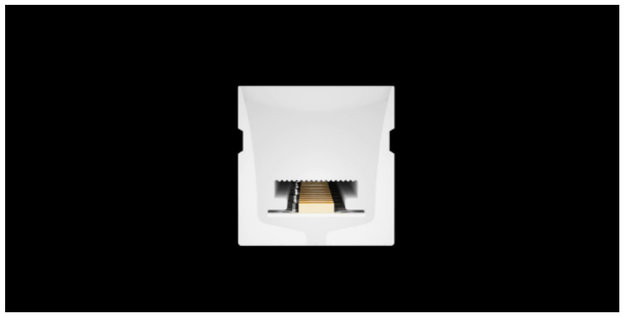
65536
DMX

Free Cutting & Energy Efficiency Ultra-Long Use

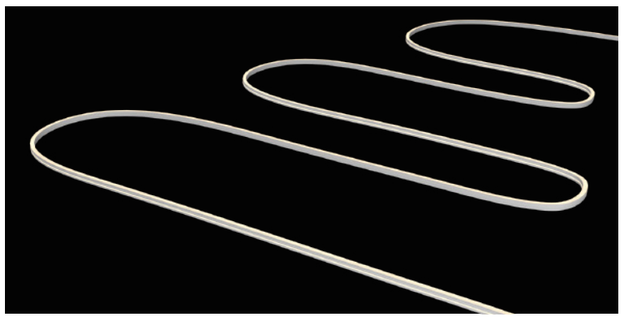
Cut-to-Size · Accurate Fit for Easy Installation
DC24V single Led cutting, precise to 6.25mm, with length customization unlimited by cutting units



Triple Efficiency Boost · Ultra High Light Efficiency & More Energy Saving
High-efficiency LEDs + Patented Optical Design and Material Formulation,
The maximum light efficiency is 110 lm/W, increasing the brightness by 60%, and 40% energy savings.

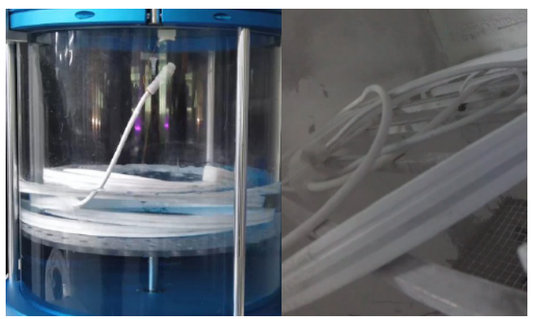


White Light:
50 meters, RGB/DMX: 20 meters



FACADE LIGHTING TESTING AND CERTIFICATION

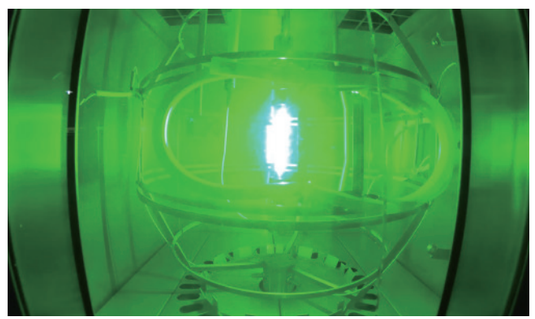
COLORS outdoor lights are designed with top-tier IP waterproof and dustproof ratings, high IK impact resistance, and precision anti-corrosion structure and processes. They have passed stringent tests for temperature rise, salt spray, and vibration resistance, ensuring long-term stability under harsh outdoor conditions.



IP Rating Waterproof/Dustproof Testing

IK Impact Protection Rating Test

Flame Tetardancy Testing

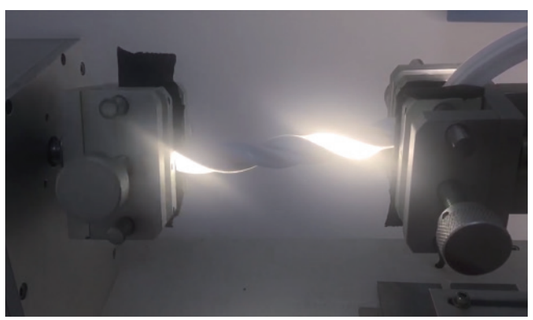


UV Resistance Testing

Load Suspension Test

Tensile Testing

Thermal Shock Testing



Torsion Testing

Certification

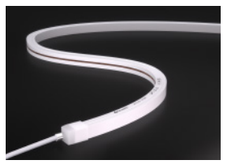
CQC Product Certification

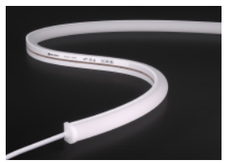
ISO-9001& ISO-14001 Certifications

PRODUCT PORTFOLIO

ARCH NEON

AF Weather Fastness Series

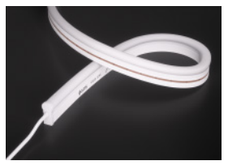

AFT1312 P58


AFT1615 P62

AFT1616 P66

AFT2020 P70

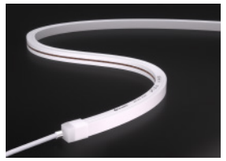
AFS1217 P74

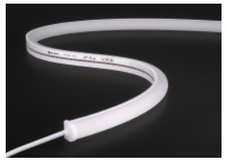

AFS1224 P78

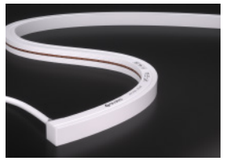
AFS1616 P82

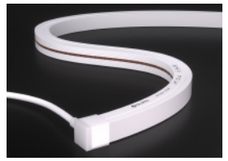
AFS2020 P86

AH Free Cutting Series

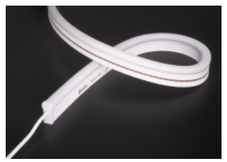

AHT1312 P92


AHT1615 P96


AHT1616 P100


AHT2020 P104

AHS1217 P108


AHS1224 P112

AHS1616 P116

AHS2020 P120

AC Series

ACS1217 P126

ACS1224 P130

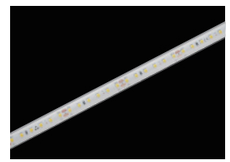
ACT1312 P134

LED STRIPS

High-voltage Series

H8104 P140

Ultra-long Series

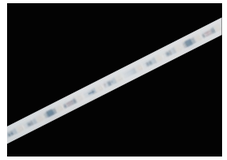

DS872(EF) P144

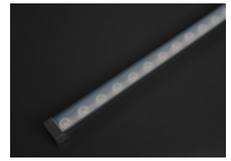
CSP Dot Series

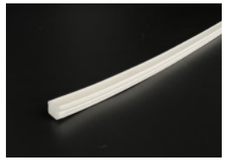
PD140(EF) P148

WALL WASHING STRIPS

Lens


L570 P152


AL3D2722 P154


AL3D1312 P156

ALS3646 P160

HW-WA P162

HW-WB P164

HW-WC P166

QUICK PRODUCT APPLICATION REFERENCE

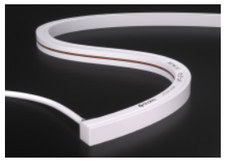
High-Rise Landmark Buildings

As "urban regional landmarks", the design emphasizes enhancing architectural height and massing through lighting, while balancing energy efficiency and light pollution control. Dynamic lighting and intelligent control systems are mainstream trends, enabling diverse visual effects from festival-themed dynamics to daily ambient gradients.Prioritizes vertical illuminance and uniformity, balancing overall building brightness with local details to avoid glare affecting the surrounding environment.

Adopts "Contour Lighting + Flood Lighting", using linear lights along rooftops and edges combined with long-range projection to create a clear urban skyline.

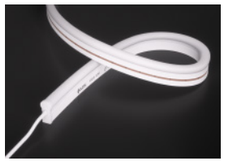
Implements intelligent dimming to automatically adjust brightness and dynamic effects by time slots. Requires high-efficiency luminaires with professional light distribution to minimize diffused light pollution and achieve energy conservation.

Contour Lighting



AFT1616 P62

AFT2020 P70



AFS1224 P78

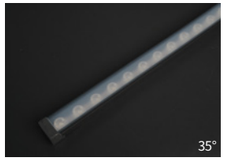
AFS1616 P82

AFS2020 P86

Recommendation Reasons

1. For high-rise buildings, recommend large luminous surface products for optimal viewing distance.
2. Excellent weather resistance of AF Series.
3. Rich CCT and control options.
4. Supports ultra-long cascading for easier installation.
5. White light products are typically used for outlining illumination; RGB and dynamic products are preferred for decorative and atmosphere lighting.

Wall Washing / Grazing Lighting



AL3D2722 P154

HW-WB P164

HW-WC P166

Recommended Reasons

1. HW-WB/WC - Multiple beam angle options, high luminous efficacy, 4–5 m projection distance; suitable for regular-shaped buildings.
2. AL3D2722 - 35° beam angle, high luminous efficacy, flexible 5m ultra-long cascading, 3–5m projection distance; ideal for irregular-shaped buildings.

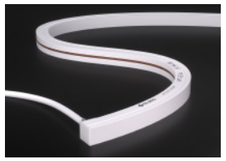
QUICK PRODUCT APPLICATION REFERENCE

Public Cultural Buildings

Core Concept: Serving as "carriers of public life", the design restores architectural texture through precise projection while integrating cutting-edge lighting technologies for cultural storytelling. Non-contact projection and dynamic light art are trending, with long-range lighting preserving original structures and inner transmission lighting connecting indoor-outdoor spaces.Focuses on flexible multi-mode lighting to balance architectural functions, public safety, and humanistic care.

Uses "Façade Projection + Under-Eave Flooding + Grazing Lighting" to highlight material textures and architectural temperament. Integrates projection technology for cultural narratives (e.g., historical scroll projections on museum facades). Employs concealed design, hiding luminaires within architectural structures or components to achieve a "no visible fixtures during daytime" effect.

Contour Lighting



AFT1616 P66

AFS1616 P82

ACS1217 P126

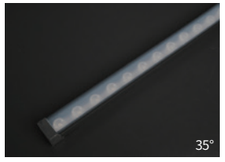
ACS1224 P130

ACT1312 P134

Recommended Reasons

1. For mid-rise buildings, mid-size luminous surface products are recommended, and the viewing distance is moderate.
2. In harsh environments, the AF Series is recommended for its strong weather resistance and wide range of color temperature options.
3. In standard environments, the AC Series is recommended for its 50 m ultra-long cascading capability, driver-free operation, and ease of installation.
4. White-light products are generally used for outlining and façade illumination, while RGB and RGB dynamic products are primarily for decorative and ambient lighting.

Wall Washing / Grazing Lighting



AL3D2722 P154

ALS3646 P160

HW-WB P164

HW-WC P166

Recommended Reasons

1. HW-WB/WC - Multiple beam angle options, high luminous efficacy, 4–5 m projection distance; suitable for regular-shaped buildings.
2. AL3D2722 - 35° beam angle, high luminous efficacy, flexible 5m ultra-long cascading, 3–5m projection distance; ideal for irregular-shaped buildings.
3. ALS364, high power, 5–8m throw distance, ideal for super-tall buildings or tall tree uplighting.

Low / Mid-Height Illumination

H8104 P140

PD140（EF） P148

Recommended Reasons

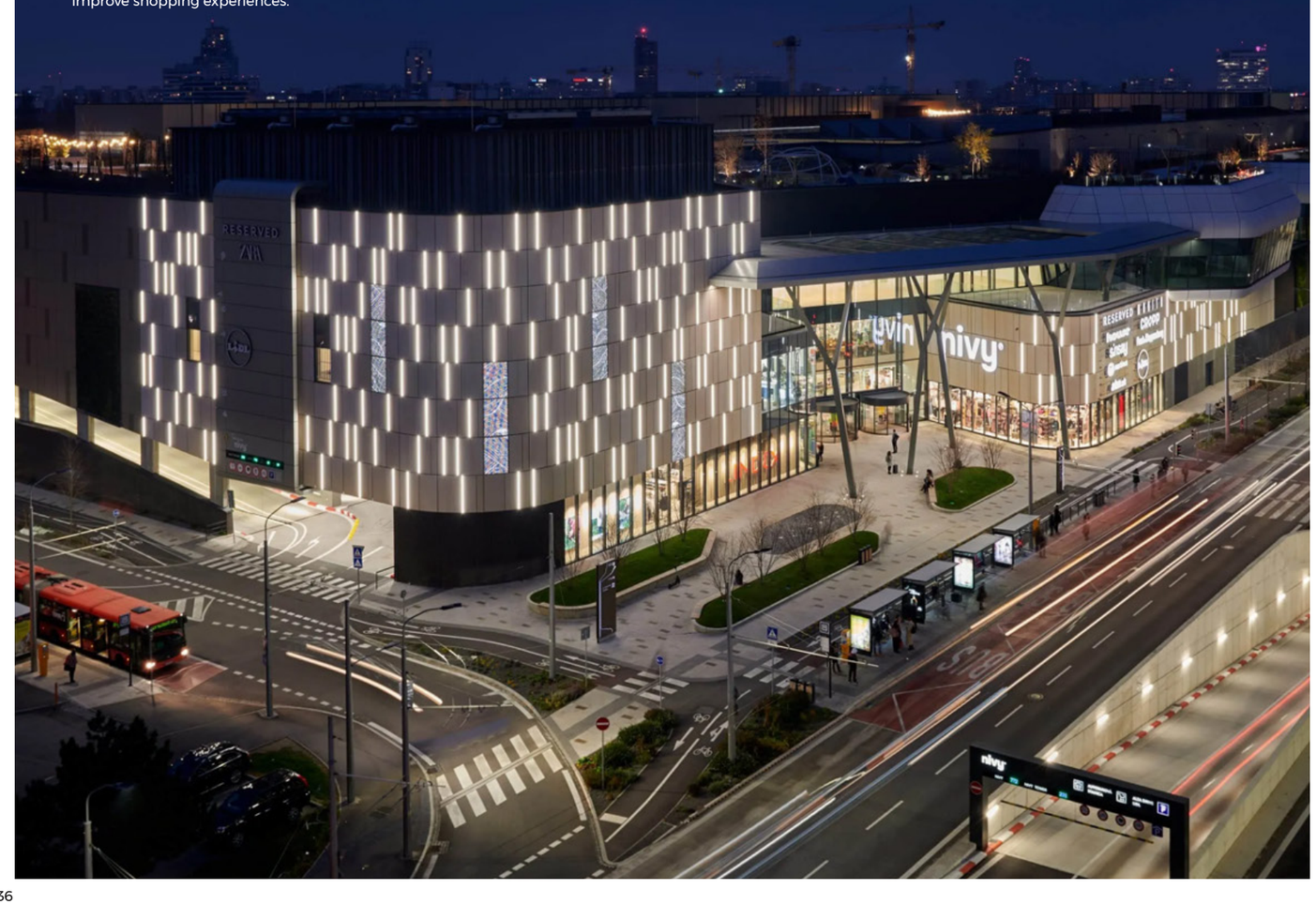
1. PD140, high luminous efficacy, excellent uniformity, 50m ultra-long cascading without splicing, and easy installation.
2. H8104, high power and luminous output, 50m cascading, high-voltage driverless, convenient power supply.

QUICK PRODUCT APPLICATION REFERENCE

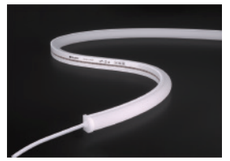
Commercial Block Buildings

Design Objective: Oriented toward "consumer attraction", the design stimulates commercial vitality through dynamic lighting and interactive experiences. Multi-dimensional light environment design (color temperature zoning, brightness gradients) and creating harmonious blends of nature and urban ambiance are emerging trends.Enhances vertical illuminance for window displays and guides customer flow via dynamic lighting to improve shopping experiences.

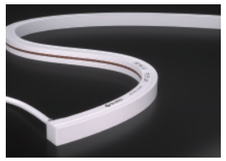
Creates layered facade environments with varying color temperatures (e.g., warm 3000K for podium zones vs. cool 4000K for towers).Installs touch-sensitive screens or dynamic light games for interactive engagement. Utilizes natural light sensors and time-sharing control to reduce energy consumption during non-business hours.



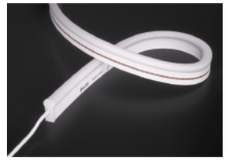
Contour Lighting



AHT1615 P96



AHT1616 P100



AHS1224 P112

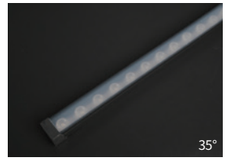
AHS1616 P116

ACS1224 P130

Recommended Reasons

1.Medium viewing distance – recommend mid-sized luminous surface products for optimal visibility.
2.Commercial areas often use multi-section design elements – the AH Series with higher luminous efficacy is recommended; it can be cut to any length and offers easier installation.
3. ACS1224, high luminous efficacy, 50m ultra-long cascading, high-voltage driver-free design, easy power access.
4. White-light products are mainly used for outlining and façade illumination, while RGB and RGB dynamic products are primarily for decorative and ambient lighting.

Wall Washing / Grazing Lighting



AL3D2722 P154

ALS3646 P160

HW-WB P164

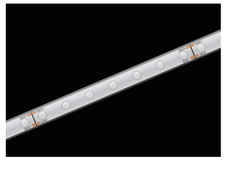
HW-WC P166

Recommended Reasons

1. HW-WB/WC - Multiple beam angle options, high luminous efficacy, 4–5 m projection distance; suitable for regular-shaped buildings.
2. AL3D2722 - 35˚ beam angle, high luminous efficacy, flexible 5m ultra-long cascading, 3–5m projection distance; ideal for irregular-shaped buildings.
3. ALS364, high power, 5–8m throw distance, ideal for super-tall buildings or tall tree uplighting.

Low / Mid-Height Illumination

H8104 P140



PD140（EF） P148

Recommended Reasons

1. PD140, high luminous efficacy, excellent uniformity, 50m ultra-long cascading without splicing, and easy installation.
2. H8104, high power and luminous output, 50m cascading, high-voltage driverless, convenient power supply.

QUICK PRODUCT APPLICATION REFERENCE

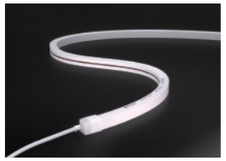
Low-Rise Residential Buildings

Centered on "livable living experiences", the design uses soft lighting to create privacy and a sense of belonging. Personalized customization and smart security lighting are mainstream, with linear light strips and motion-sensor lighting commonly used in villa designs.Balances functionality and aesthetics, avoiding excessive brightening that invades privacy, while integrating luminaires with architectural materials.

Employs multi-layered lighting: indirect light for facades and low-position ambient lighting for courtyards to avoid glare.

Matches lighting techniques to architectural styles (e.g., linear light strips for modern villas). Implements intelligent control with motion sensors and natural light adjustment for energy-efficient "auto-on/off" functionality.

Contour Lighting



AHT1312 P92

AHS1217 P108

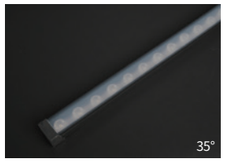
ACS1217 P126

ACT1312 P134

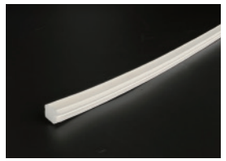
Recommended Reasons

1. For low-rise buildings, recommend small to medium luminous surface products.
2. For residential applications, the AH Series is preferred - high luminous efficacy, energy-saving, cut-to-length flexibility, and convenient installation.
3. The AC Series high-voltage products allow single-ended 50m cascading, easy installation, white and RGB configurations available, driver-free, and easy power access.

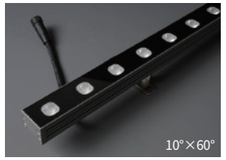
Wall Washing / Grazing Lighting



AL3D2722 P154



AL3D1312 P156



HW-WB P164

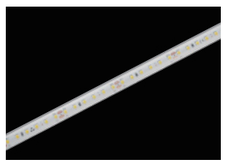
HW-WC P166

Recommended Reasons

1. HW-WB/WC - Multiple beam angle options, high luminous efficacy, 4–5 m projection distance; suitable for regular-shaped buildings.
2. AL3D2722 - 35˚ beam angle, high luminous efficacy, flexible 5m ultra-long cascading, 3–5m projection distance; ideal for irregular-shaped buildings.
3. AL3D1312 , Compact Size, 15˚ Beam Angle, 5m Ultra-Long Cascading, 1-3m Illumination Distance, Ideal for Small-Scale Wall Washing.

暗槽照明

H8104 P140



DS872（EF） P144

Recommended Reasons

1. DS872, 60m ultra-long cascading without splicing, easy installation, moderate luminous efficacy, suitable for short-distance concealed cove lighting.
2. H8104, 50m ultra-long cascading, high-voltage driver-free design, easy power access, high luminous efficacy, suitable for medium viewing distance concealed coves.

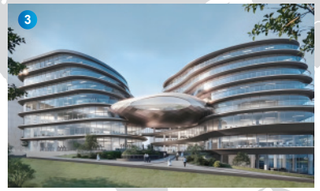
PROJECT CASES

Tencent East China Headquarters Building

Shanghai,China 2023

Shougang Park Office Building Facade Lighting

Beijing,China 2023



GOLDEN HARVEST headquarters building facade

Guangzhou,China 2023

THE XANADU Guangzhou

Guangzhou,China 2022

Xi'an Traditional Chinese Medicine Hospital South Campus

Xi'an,China 2022

Antaaya Building Façade Lighting Project

Pune, India 2024

HAVE THE WORLD high-end residential development

Ningbo,China 2022

Shaanxi Archaeological Museum

Xi'an,China 2022

Xi'an International Football Center Facade Lighting

Xi'an,China 2023

CHIMELONG

Zhuhai,China 2021

ZONGHENG GROUP BUILDING

Tangshan,China 2021

Infineon Tower in Melaka

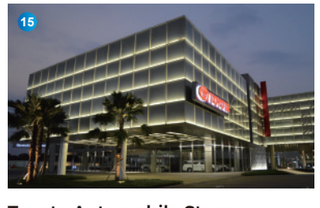
Melaka,Malaysia 2022

Nivy Centre by HB in Slovakia

Bratislava,Slovakia 2022

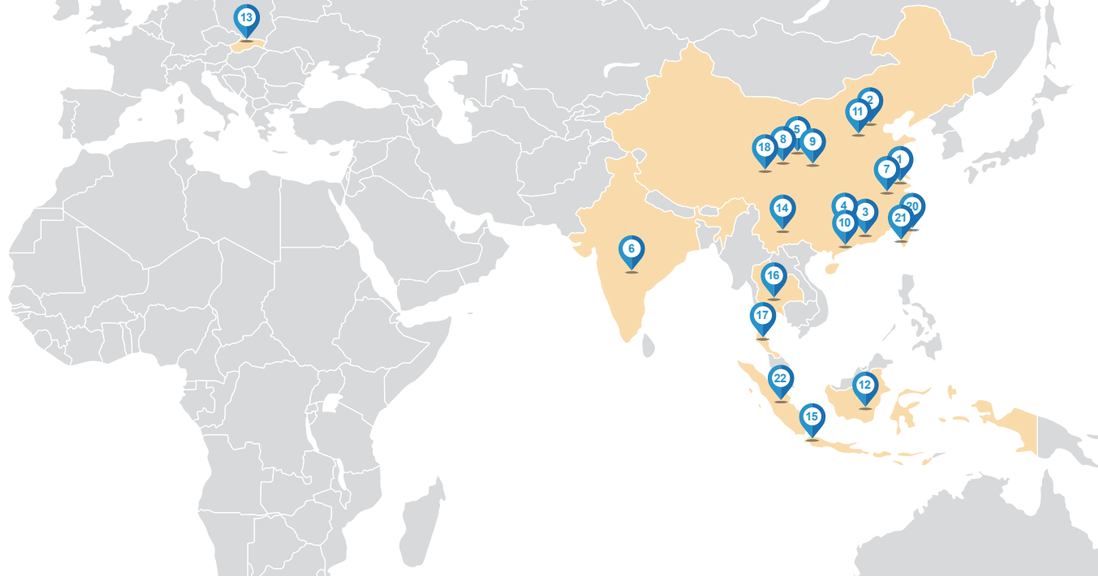
WANGFUJING. KM

Kunming,China 2021



Toyota Automobile Store

Jakarta, Indonesia 2017



KFC flagship concept store.Bangkok

Bangkok,Thailand 2021

SAND BOX SocialTel Koh Samui Hotel

Chaweng, Thailand 2022

Tianhua Island Bridge

Xi'an,China 2021

Memorial UC

Santiago,Chile 2022

Arc ZERO-Eclipse

Gaoxiong,China 2022

2G night cruise boaton the Tainan Canal

Taiwan, China 2023

Residential House Garden

Malaysia 2024

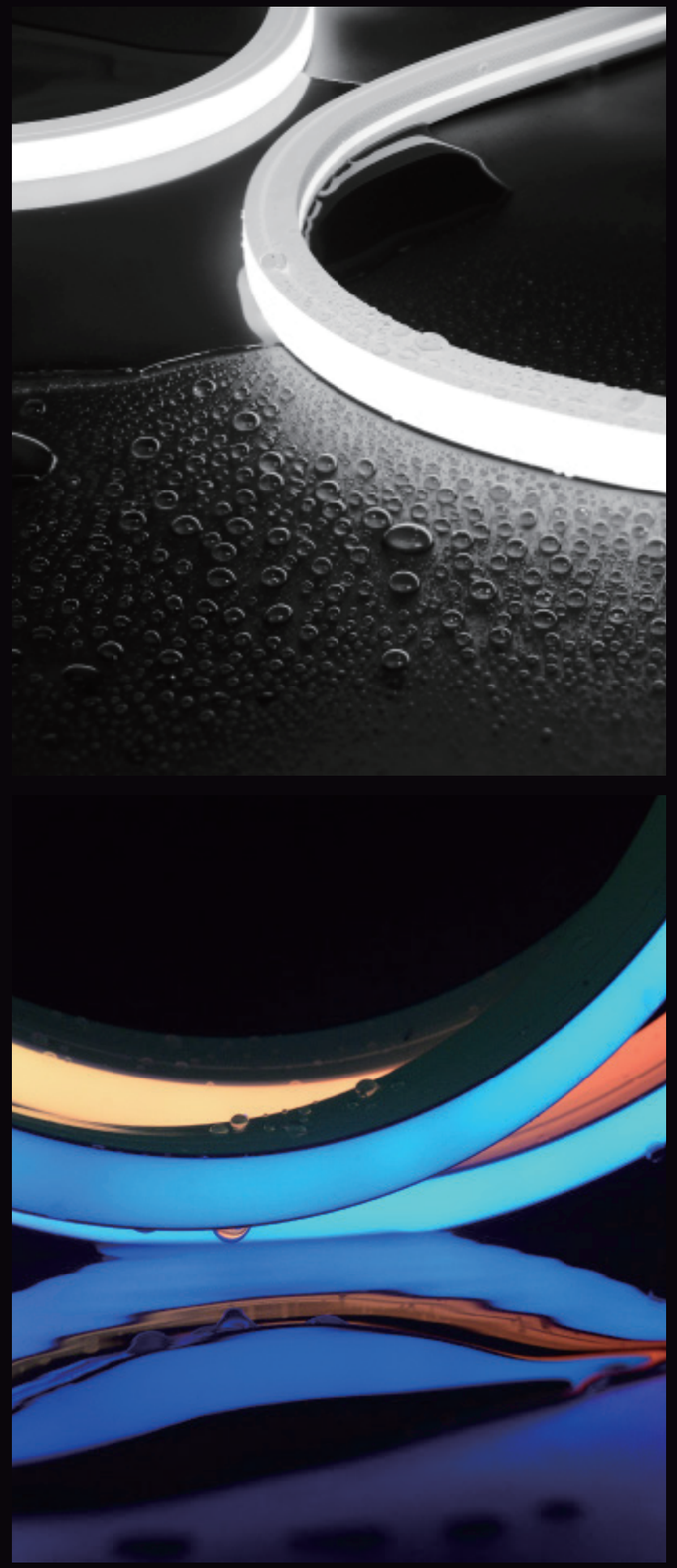
Scan the QR code to view more.

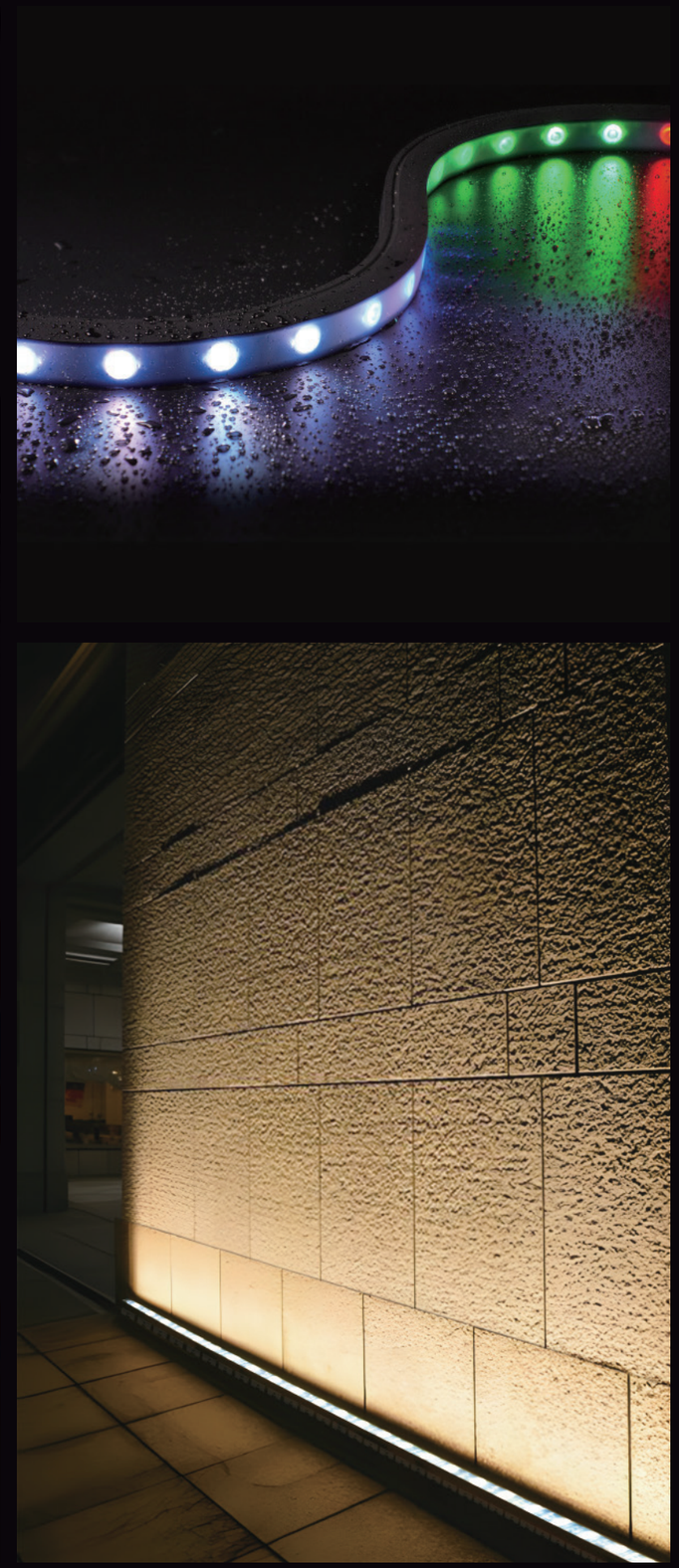
02

PRODUCT SYSTEM

COLORS Lighting's protective low-voltage LED Strips and Neon Strips lights are widely used in outdoor architectural façade lighting and landscape illumination. Driven by the mission of creating an ideal lighting environment for the world, COLORS has successfully delivered hundreds of high-quality outdoor lighting projects in major cities worldwide over the past decade. We have built a strong reputation for excellent color and light performance, superior weather protection, and long-lasting quality, along with providing a complete Architectural Façade Linear Lighting Integrated Solution.

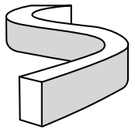
COLORS Lighting's architectural façade linear lighting products include protective LED strips for ambient base lighting, Neo Strips for contour outlining and dynamic illumination, as well as flexible lens strips and linear wall washers for wall washing and grazing effects. Based on differences in building scale, viewing distance, lighting design techniques, and desired visual effects, each product category has been further refined into distinctive series such as the AF Series of weather-resistant, the AH Series of high-luminous-efficacy and freecutting, the CSP-Dot Series of tensile- and torsion-resistant protective LED Strips, and 3D flexible wall washers bendable in any direction.





FACADE LIGHTING PRODUCT SYSTEM DIRECTORY

ARCH NEON



AF Weather Fastness Series 56

AFT1312 58
AFS1217 62
AFT1615 66
AFS1224 70
AFT1616 74
AFS1616 78
AFT2020 82
AFS2020 86

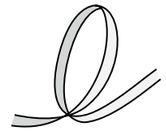
AH Free Cutting Series 90

AHT1312 92
AHS1217 96
AHT1615 100
AHS1224 104
AHT1616 108
AHS1616 112
AHT2020 116
AHS2020 120

AC Series 124

ACT1312 126
ACS1217 130
ACS1224 134

LED STRIPS



High-voltage Series 138

H8104 140

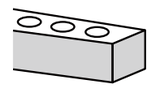
Ultra-long Series 142

DS872(EF) 144

CSP Dot Series 146

PD140(EF) 148

LENS SERIES

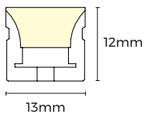
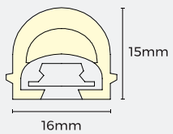
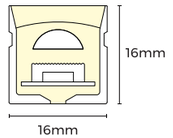


Wall Washing Strips 150

L570 152
AL3D2722 154
AL3D1312 156
ALS3646 160
HW-WA 162
HW-WB 164
HW-WC 166

Product parameter list

*4000K or approaching color temperature

Size	Model	DC(V)	CCT/Color	Typ.W/m	LM/m*	CRI	LEDs/cut(mm)	Length(m)	EP(IP67)	ENP(IP67)	Glue end cap(IP65)	Metal end cap(IP54)	Warranty (years)
AF Weather Fastness Series													
	AFT1312	24	2700K 3000K 4000K	10	860	> 90	16/50	10	Side-Right/Top	Bottom/Side-Right (White)	/	/	7
			RGB	12	305	/	6*3/50	5	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
			RGBW	12	140	/	7*4/83.33	5	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
			DMX	13.5	270	/	7*3/83.33	5	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
			DMX	13.5	510	/	7*4/83.33	5	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
			DMXW	16.5	160	/	7*4/83.33	5	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
		48	2700K 3000K 4000K	10	800	> 90	16/50	20	Side-Right/Top	Bottom/Side-Right (White)	/	/	7
	AFT1615	24	2700K 3000K 4000K	10	820	> 90	16/50	10	Top	Bottom/Side-Right (White)	/	/	7
			RGB	12	280	/	6*3/50	5	Top	Bottom/Side-Right (White)	/	/	5
			RGBW	12	140	/	7*4/83.33	5	Top	Bottom/Side-Right (White)	/	/	5
			DMX	13.5	255	/	7*3/83.33	5	Top	Bottom/Side-Right (White)	/	/	5
			DMX	13.5	520	/	7*4/83.33	5	Top	Bottom/Side-Right (White)	/	/	5
			DMXW	16.5	160	/	7*4/83.33	5	Top	Bottom/Side-Right (White)	/	/	5
		48	2700K 3000K 4000K	10	820	> 90	16/50	20	Top	Bottom/Side-Right (White)	/	/	7
	AFT1616	24	2700K 3000K 4000K	10	750	> 90	16/50	10	/	Top/Bottom/Right/Left	/	/	7
			RGB	12	245	/	6*3/50	5	/	Top/Bottom/Right/Left	/	/	5
			RGBW	12	120	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMX	13.5	230	/	7*3/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMX	13.5	480	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMXW	16.5	140	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
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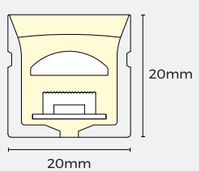
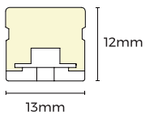
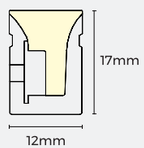
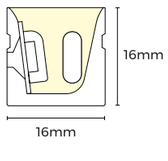
	AFT2020	24	2700K 3000K 4000K	10	700	> 90	16/50	10	/	Top/Bottom/Right/Left	/	/	7
			RGB	12	255	/	6*3/50	5	/	Top/Bottom/Right/Left	/	/	5
			RGBW	12	120	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMX	13.5	230	/	7*3/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMX	13.5	440	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
			DMXW	16.5	140	/	7*4/83.33	5	/	Top/Bottom/Right/Left	/	/	5
		48	2700K 3000K 4000K	10	670	> 90	16/50	20	/	Top/Bottom/Right/Left	/	/	7

Product parameter list

*4000K or approaching color temperature

Size	Model	DC(V)	CCT/Color	Typ.W/m	LM/m*	CRI	LEDs/cut(mm)	Length(m)	EP(IP67)	ENP(IP67)	Glue end cap(IP65)	Metal end cap(IP54)	Warranty (years)
AF Weather Fastness Series													
	AFT1312U	24	2700K 3000K 4000K	10	820	> 90	16/50	10	/	Bottom/Side-Right (White)	Side	/	7
		48	2700K 3000K 4000K	10	769	> 90	32/100	20	/	Bottom/Side-Right (White)	Side	/	7
	AFS1217	24	2700K 3000K 4000K	10	669	> 90	16/50	10	Top	Side-Right/Top	Bottom	/	7
			RGB	12	/	/	6*3/50	5	Top	Side-Right/Top	Bottom	/	5
			RGBW	12	125	/	7*4/83.33	5	Top	Side-Right/Top	Bottom	/	5
			DMX	13.5	/	/	7*3/83.33	5	Top	Side-Right/Top	Bottom	/	5
			DMX	13.5	460	/	7*3/83.33	5	Top	Side-Right/Top	Bottom	/	5
			DMXW	16.5	151	/	7*4/83.33	5	Top	Side-Right/Top	Bottom	/	5
		48	2700K 3000K 4000K	10	606	> 90	32/100	20	Top	Side-Right/Top	Bottom	/	7
	AFS1616	24	2700K 3000K 4000K	10	685	> 90	16/50	10	/	Top/Bottom/Side-Right	/	/	7
			RGB	12	/	/	6*3/50	5	/	Top/Bottom/Side-Right	/	/	5
			RGBW	12	140	/	7*4/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMX	13.5	/	/	7*3/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMX	13.5	570	/	7*3/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMXW	16.5	180	/	7*4/83.33	5	/	Top/Bottom/Side-Right	/	/	5
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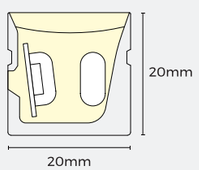
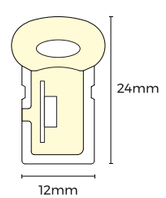
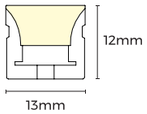
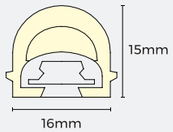
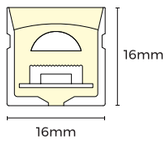
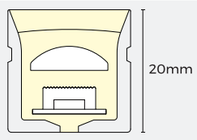
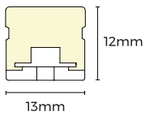
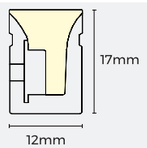
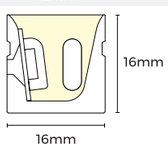
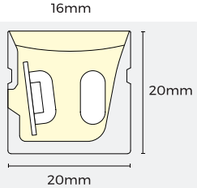
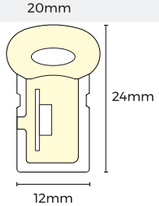
	AFS2020	24	2700K 3000K 4000K	10	734	> 90	16/50	10	/	Top/Bottom/Side-Right	/	/	7
			RGB	12	/	/	6*3/50	5	/	Top/Bottom/Side-Right	/	/	5
			RGBW	12	141	/	7*4/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMX	13.5	/	/	7*3/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMX	13.5	595	/	7*3/83.33	5	/	Top/Bottom/Side-Right	/	/	5
			DMXW	16.5	141	/	7*4/83.33	5	/	Top/Bottom/Side-Right	/	/	5
		48	2700K 3000K 4000K	10	602	> 90	32/100	20	/	Top/Bottom/Side-Right	/	/	7
	AFS1224	24	2700K 3000K 4000K	10	690	> 90	16/50	10	Side-Right/Top	Bottom (White)	/	/	7
			RGB	12	/	/	6*3/50	5	Side-Right/Top	Bottom (White)	/	/	5
			RGBW	12	146	/	7*4/83.33	5	Side-Right/Top	Bottom (White)	/	/	5
			DMX	13.5	/	/	7*3/83.33	5	Side-Right/Top	Bottom (White)	/	/	5
			DMX	13.5	541	/	7*3/83.33	5	Side-Right/Top	Bottom (White)	/	/	5
			DMXW	16.5	178	/	7*4/83.33	5	Side-Right/Top	Bottom (White)	/	/	5
		48	2700K 3000K 4000K	10	634	> 90	32/100	20	Side-Right/Top	Bottom (White)	/	/	7

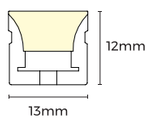
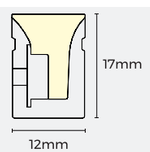
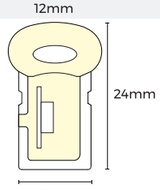
Product parameter list

*4000K or approaching color temperature

Size	Model	DC(V)	CCT/Color	Typ.W/m	LM/m*	CRI	LEDs/cut(mm)	Length(m)	EP(IP67)	ENP(IP67)	Glue end cap(IP65)	Metal end cap(IP54)	Warranty (years)
AH Free Cutting Series													
	AHT1312	24	2200K 2700K 3000K 4000K	10	1110	> 90	1/6.25	10	Side-Right/Top	Bottom/Side-Right (White)	/	/	7
		48	2200K 2700K 3000K 4000K	10	1130	> 90	2/12.5	20	Side-Right/Top	Bottom/Side-Right (White)	/	/	7
	AHT1615	24	2200K 2700K 3000K 4000K	10	1010	> 90	1/6.25	10	Top	Bottom/Side-Right (White)	/	/	7
		48	2200K 2700K 3000K 4000K	10	1070	> 90	2/12.5	20	Top	Bottom/Side-Right (White)	/	/	7
	AHT1616	24	2200K 2700K 3000K 4000K	10	950	> 90	1/6.25	10	/	Top/Bottom/Right/Left	/	/	7
		48	2200K 2700K 3000K 4000K	10	980	> 90	2/12.5	20	/	Top/Bottom/Right/Left	/	/	7
	AHT2020	24	2200K 2700K 3000K 4000K	10	830	> 90	1/6.25	10	/	Top/Bottom/Right/Left	/	/	7
		48	2200K 2700K 3000K 4000K	10	890	> 90	2/12.5	20	/	Top/Bottom/Right/Left	/	/	7
	AHT1312U	24	2200K 2700K 3000K 4000K	10	990	> 90	1/6.25	10	/	Bottom/Side-Right (White)	Side	/	7
		48	2200K 2700K 3000K 4000K	10	1090	> 90	2/12.5	20	/	Bottom/Side-Right (White)	Side	/	7
	AHS1217	24	2200K 2700K 3000K 4000K	10	800	> 90	1/6.25	10	Top	Side-Right/Top	Bottom	/	7
		48	2200K 2700K 3000K 4000K	10	840	> 90	2/12.5	20	Top	Side-Right/Top	Bottom	/	7
	AHS1616	24	2200K 2700K 3000K 4000K	10	830	> 90	1/6.25	10	/	Top/Bottom/Side-Right	/	/	7
		48	2200K 2700K 3000K 4000K	10	890	> 90	2/12.5	20	/	Top/Bottom/Side-Right	/	/	7
	AHS2020	24	2200K 2700K 3000K 4000K	10	880	> 90	1/6.25	10	/	Top/Bottom/Side-Right	/	/	7
		48	2200K 2700K 3000K 4000K	10	890	> 90	2/12.5	20	/	Top/Bottom/Side-Right	/	/	7
	AHS1224	24	2200K 2700K 3000K 4000K	10	830	> 90	1/6.25	10	Side-Right/Top	Bottom (White)	/	/	7
		48	2200K 2700K 3000K 4000K	10	880	> 90	2/12.5	20	Side-Right/Top	Bottom (White)	/	/	7

Product parameter list

*4000K or approaching color temperature

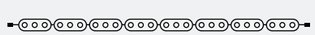
Size	Model	DC(V)	CCT/Color	Typ.W/m	LM/m*	CRI	LEDs/cut(mm)	Length(m)	EP(IP68)	EP(IP67)	ENP(IP67)	Glue end cap(IP65)	Metal end cap(IP54)	Warranty (years)
AC Series														
	ACT1312	AC230V	3000 K 4000 K 6500 K	10	700	> 80	168/500	50	/	Side-Right/Top	Bottom/Side-Right (White)	/	/	5
	ACS1217	AC230V	3000 K 4000 K 6500 K	10	600	> 80	168/500	50	/	Top	Side-Right/Top	Bottom	/	5
	ACS1224	AC230V	3000 K 4000 K 6500 K	10	650	> 80	168/500	50	/	Side-Right/Top	Bottom(White)	/	/	5

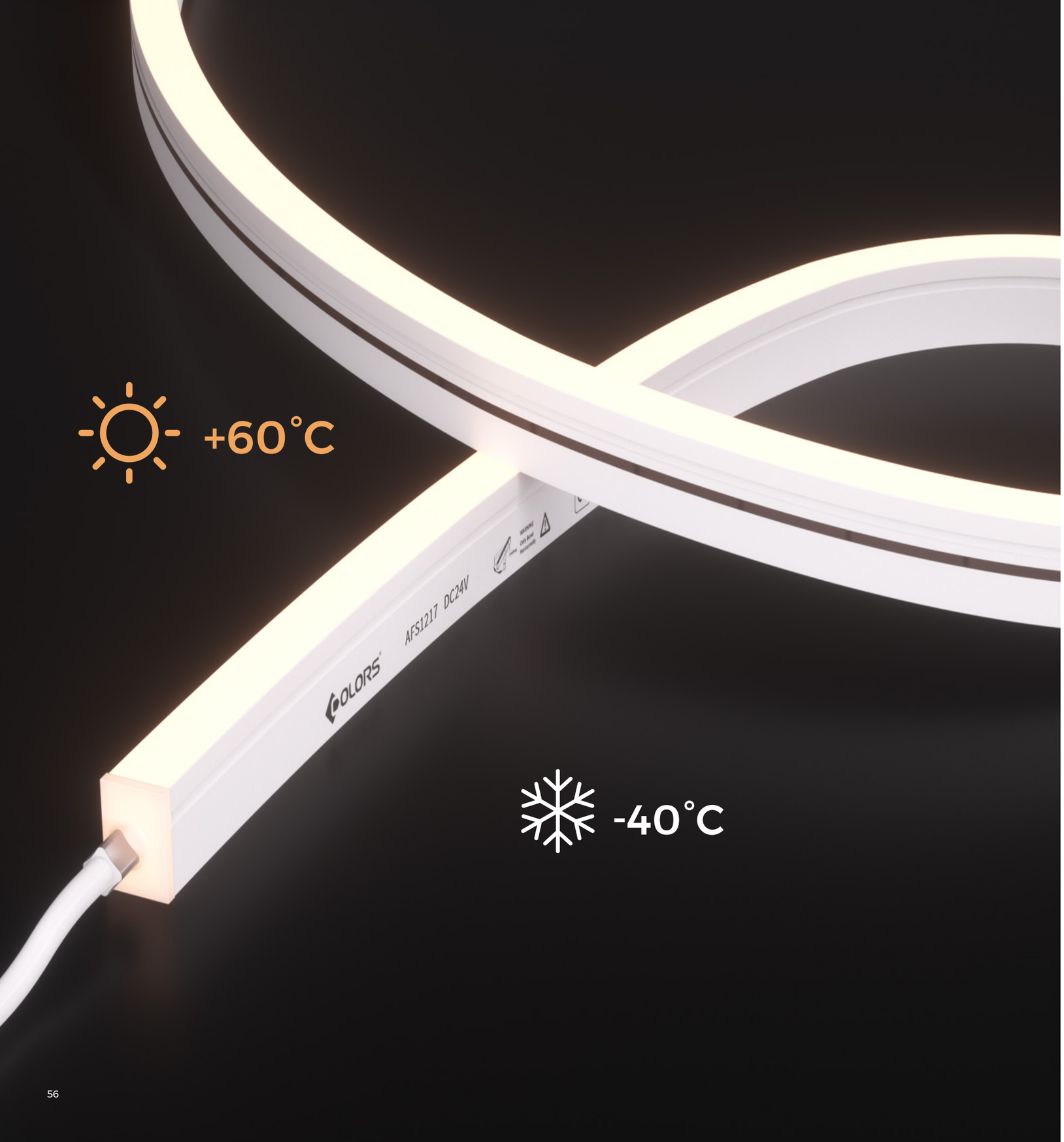
*4000K or approaching color temperature

Model		DC(V)	Max.W/m	Typ.W/m	LM/m(4000K)	CRI	CCT/Color	LEDs/m	LEDs/cut(mm)	FPC Width (mm)	Length(m)	Diagram	IP process	Warranty years (Indoor/Outdoor)
High-voltage Series														
H8104-230V-12mm	50M	230	12	10.6	1100	>80	2200 K 2850 K 4000 K 5700 K	104	26/250	12	50		EF	3/2
Ultra-long Series														
DS872-48V-10mm	60M	48	3.8	3.3	385	>80,>90,>95	2300 K 3000 K 3500 K 4000 K 6000 K	72	12/166.67	10	60		EF	5/3
CSP Dot Series														
PD140	R2R	24	5.3	4.8	410	>90	2700 K 3000 K 4000 K 6000 K	80	8/100	8	5		EF	5/5

Product parameter list

*4000K or approaching color temperature

Model	DC(V)	Max.W/m	Typ.W/m	LM/m*	Angle	CCT/Color	CRI		Length(mm)	Diagram	End cap	IP	Warranty (years)
Lens													
L570	24	15.84	14.4	1330	/	1900K 2700K 3000K 3500K 4000K 6500K	>90	/	5000		ENP	IP67	3
AL3D2722	24	26.4	24	1680	/	2700K 3000K 4000K 6000K	>90	/	5000		ENP	IP67	3
AL3D1312 NEW	24	15.5	13.5	770	28°	2700K 3000K 4000K	>90	/	1000		ENP	IP67	3
ALS3646 NEW	24	64.4	56	4320	12°/25°/40°/15x55°	2700K 3000K 4000K	>90	/	1000		Metal end cap	IP66	3
HW-WA	24	13.8	12	1080	30°/60°/120°	2700K 3000K 4000K 6000K RGBW DMX	>90	/	1000		Metal end cap	IP67	3
HW-WB	24	27.6	24	1680	30°/60°/120°/10x60°/20x45°	2700K 3000K 4000K 6000K RGBW DMX	>90	/	1000		Metal end cap	IP67	3
HW-WC	24	41.4	36	3492	30°/60°/120°/10x60°/20x45°	2700K 3000K 4000K 6000K RGBW DMX	>90	/	1000		Metal end cap	IP67	3



AF Weather Fastness Series

Model Recommendation

AFT1312 AFT1615 AFT1616 AFT2020
AFS1217 AFS1224 AFS1616 AFS2020

Core Feature Advantages

Super Weather Resistance ,-40~+60℃
Suitable for extremely cold / extremely hot regions

650N
Pulling test

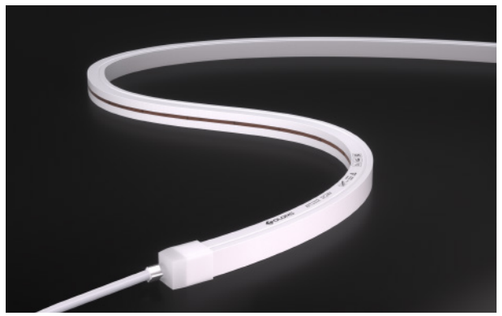
>5000 times
720° twist

>1500 cycles
Thermal shock test

3000H
UV test

SDCM<5
ANSI C78.377

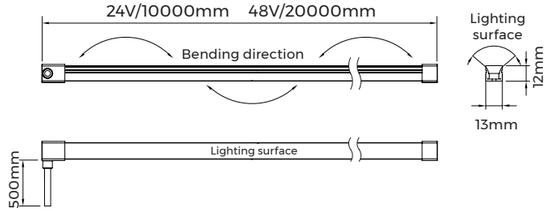
AFT1312

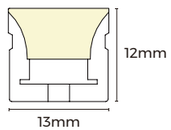


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60℃, DMX/RGB/RGBW: -40~50℃
Storage temperature	0℃~60℃
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V - 15W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.625 (0.19A/ft)	15 (4.57W/ft)	16.5 (5.03W/ft)	739 (225LM/ft)	5000mm (16.4ft)	16LED/50mm
	2700K	2600-2830K						819 (250LM/ft)		
	3000K	2920-3170K						909 (277LM/ft)		
	4000K	3770-4220K						978 (298LM/ft)		
	6500K	6000-7000K						1086 (331LM/ft)		

White light - 24V - 10W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	591 (180LM/ft)	10000mm (32.8ft)	16LED/50mm
	2700K	2600-2830K						680 (207LM/ft)		
	3000K	2920-3170K						750 (229LM/ft)		
	4000K	3770-4220K						840 (256LM/ft)		
	6500K	6000-7000K						858 (262LM/ft)		

White light - 24V - 5W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	334 (102LM/ft)	15000mm (49.21ft)	16LED/50mm
	2700K	2600-2830K						370 (113LM/ft)		
	3000K	2920-3170K						390 (119LM/ft)		
	4000K	3770-4220K						410 (125LM/ft)		
	6500K	6000-7000K						460 (140LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312-0X24 CSW025CCXXXX -GV10-ENP-ESD	R	/	/	24	0.3 (0.09A/ft)	7.2 (2.20W/ft)	7.92 (2.41W/ft)	/	10000mm (32.81ft)	16LED/50mm
	G				0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)			
	B									
AFT1312-0RGB 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFT1312- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	135 (41LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						165 (50LM/ft)		
	4000K	RGB+(3900-4350K)						160 (49LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312- 9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	488 (149LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							626 (191LM/ft)		
	4000K	3900-4350K							637 (194LM/ft)		

SPI neon light / DMX512 neon light - 24V

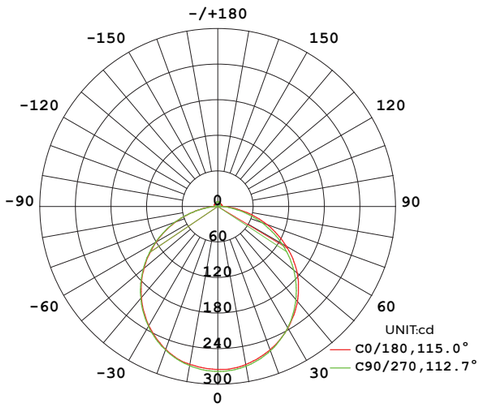
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312-0RGBM 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFT1312- 0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	160 (49LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							190 (58LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							200 (61LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1312-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	625 (191LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						660 (201LM/ft)		
	4000K	3770-4220K						730 (223LM/ft)		

Note:1. The above parameters are tested based on 1m/3.28ft standard products;2. The luminous flux is allowed to have an error range of -15%~+∞;
3. The above parameters are typical values;

Light Distribution



AVERAGE BEAM ANGLE(50%):113.8°

Light distribution

Flux out:823.3lm

1m	79.41,278.61lx	300.19cm
2m	19.85,69.661x	600.39cm
3m	8.824,30.961x	900.58cm
4m	4.963,17.411x	1200.77cm
5m	3.177,11.151x	1500.97cm
6m	2.206,7.7401x	1801.16cm
7m	1.621,5.6861x	2101.36cm
8m	1.241,4.3541x	2401.55cm
9m	0.9804,3.4401x	2701.74cm
10m	0.7941,2.7861x	3001.94cm

Height Eavg,Emax Angle :112.65° Diameter

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

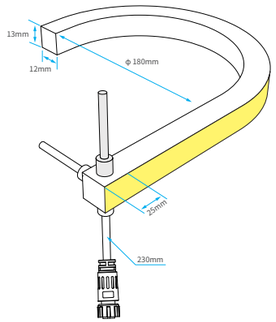
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

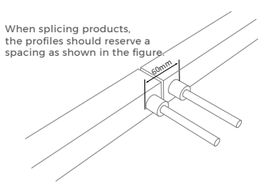
End cap

ENP:

IP67

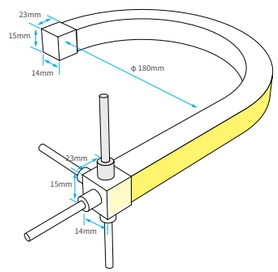


When splicing products, the profiles should reserve a spacing as shown in the figure.

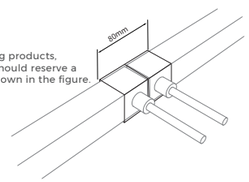


Gluing end cap:

IP65

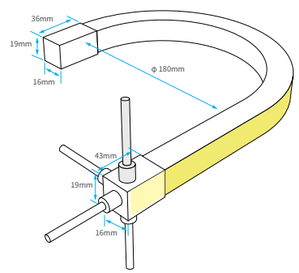


When splicing products, the profiles should reserve a spacing as shown in the figure.

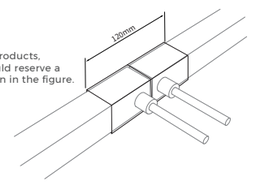


Solderless end cap:

IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

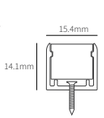


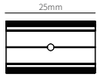
2PIN

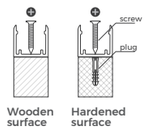
Installation accessory

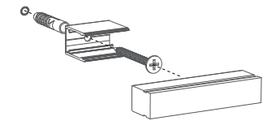
Flat mounting clip

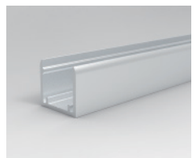
Order model: AS-NMT1312A-25
Dimension: 25x15.4x14.1mm
screw model: KA-M4
screw QTY: 1 PCS





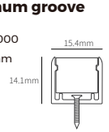


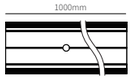


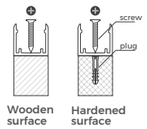


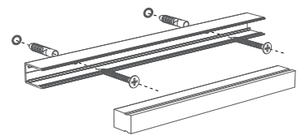
Flat mounting aluminum groove

Order model: AS-NMT1312A-1000
Dimension: 1000x15.4x14.1mm
screw model: KA-M4
screw QTY: 2 PCS



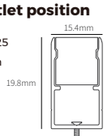


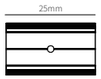


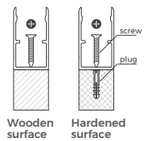


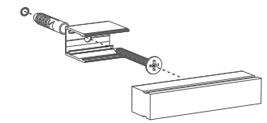
clip with reserved outlet position

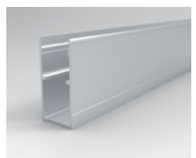
Order model: AS-NMT1312B1-25
Dimension: 25x15.4x19.8mm
screw model: KA-M4
screw QTY: 1 PCS





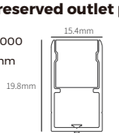


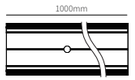


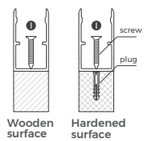


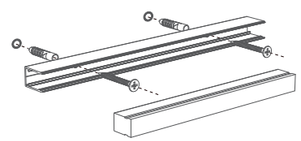
Aluminum groove of reserved outlet position

Order model: AS-NMT1312B1-1000
Dimension: 1000x15.4x19.8mm
screw model: KA-M4
screw QTY: 2 PCS



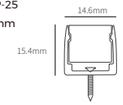


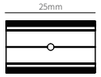


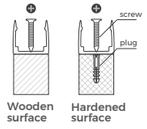


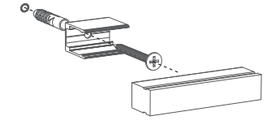
Flat mount PC clip

Order model: AS-NMT1312P-25
Dimension: 25x15.4x14.6mm
screw model: KA-M4
screw QTY: 1 PCS



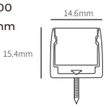


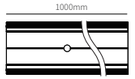


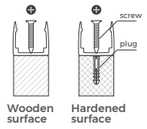


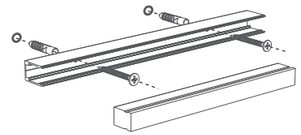
Flat mount PC slot

Order model: AS-NM1312P-1000
Dimension: 1000x15.4x14.6mm
screw model: KA-M4
screw QTY: 2 PCS



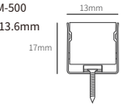


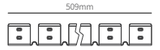


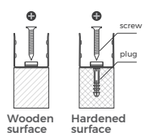


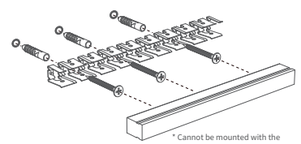
Moldable groove

Order model: AS-NMT1312M-500
Dimension: 500xW13.7xH13.6mm
screw model: KA-M4
screw QTY: 8 PCS









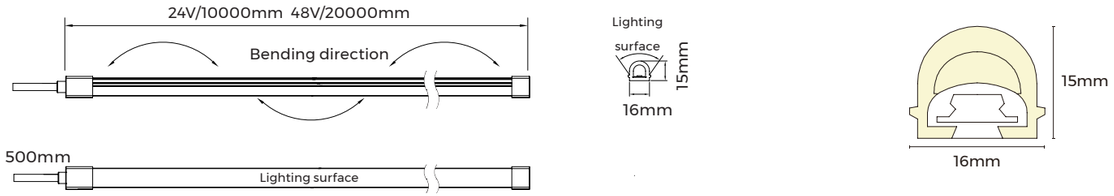
* Cannot be mounted with the illuminated side facing down

AFT1615

Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60℃, DMX/RGB/RGBW: -40~50℃
Storage temperature	0℃~60℃
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions



Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	708 (216LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						748 (228LM/ft)		
	4000K	3770-4220K						834 (254LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	360 (110LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						390 (119LM/ft)		
	4000K	3770-4220K						420 (128LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFT1615-0RGB24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFT1615- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	144 (44LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						168 (51LM/ft)		
	4000K	RGB+(3900-4350K)						170 (52LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615-9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	518 (158LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							659 (201LM/ft)		
	4000K	3900-4350K							653 (199LM/ft)		

SPI neon light/DMX512 neon light - 24V

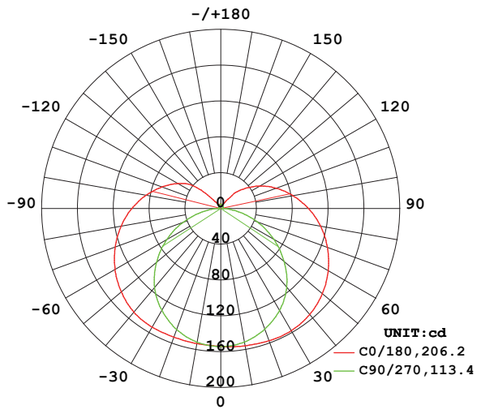
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615-0RGBM 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFT1615-0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	168 (51LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							210 (64LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							214 (65LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1615-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	635 (194LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						680 (207LM/ft)		
	4000K	3770-4220K						770 (235LM/ft)		

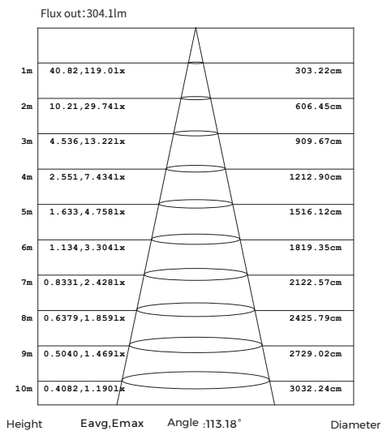
Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%): 159.8°

Light distribution



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

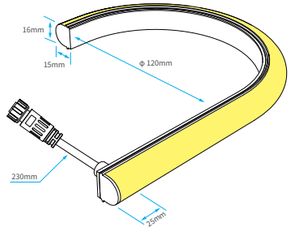
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

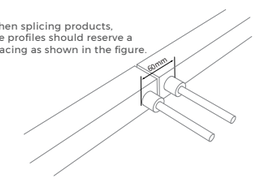
End cap

ENP:

IP67



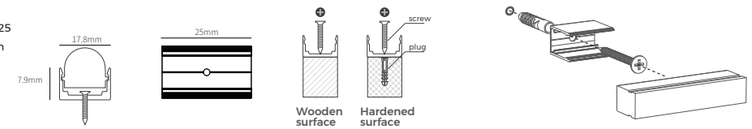
When splicing products, the profiles should reserve a spacing as shown in the figure.

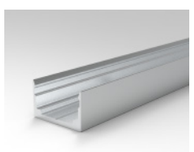


Installation accessory

Flat mounting clip

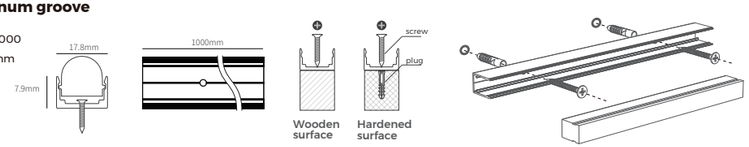
Order model: AS-NNT1615A-25
Dimension: 25x17.8x7.9mm
screw model: KA-M4
screw QTY: 1 PCS





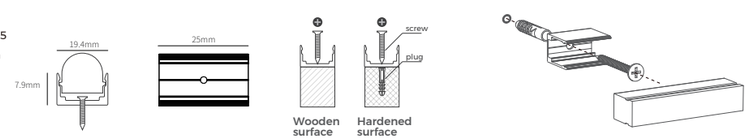
Flat mounting aluminum groove

Order model: AS-NNT1615A-1000
Dimension: 1000x17.8x7.9mm
screw model: KA-M4
screw QTY: 2 PCS



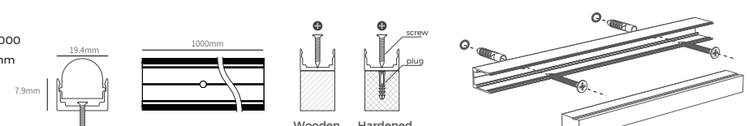
Flat mount PC clip

Order model: AS-NNT1615P-25
Dimension: 25x19.4x7.9mm
screw model: KA-M4
screw QTY: 1 PCS

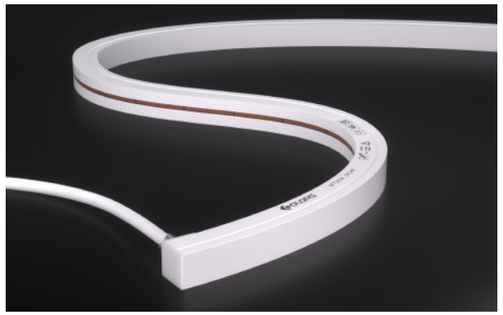


Flat mount PC slot

Order model: AS-NNT1615P-1000
Dimension: 1000x19.4x7.9mm
screw model: KA-M4
screw QTY: 2 PCS



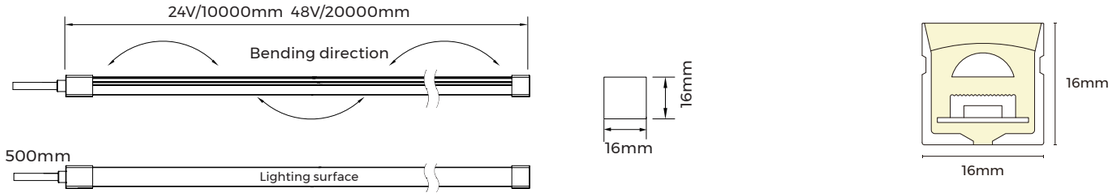
AFT1616



Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60℃, DMX/RGB/RGBW: -40~50℃
Storage temperature	0℃~60℃
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions



Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	613 (187LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						653 (199LM/ft)		
	4000K	3770-4220K						743 (227LM/ft)		
	6500K	6000-7000K						650 (198LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	315 (110LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						320 (119LM/ft)		
	4000K	3770-4220K						355 (128LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFT1616-0RGB24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFT1616- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	125 (38LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						145 (44LM/ft)		
	4000K	RGB+(3900-4350K)						145 (44LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616-9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90		24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	451 (138LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							548 (167LM/ft)		
	4000K	3900-4350K							574 (175LM/ft)		

SPI neon light/DMX512 neon light - 24V

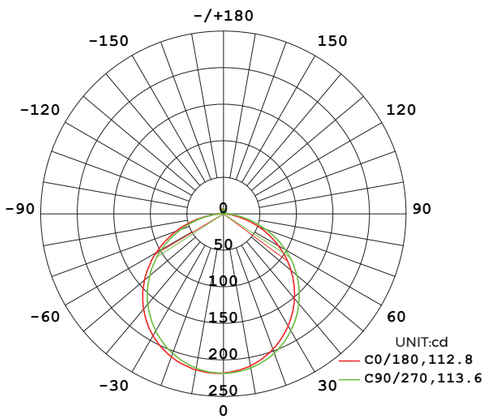
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616-0RGBM24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFT1616-0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	145 (44LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							185 (56LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							180 (55LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT1616-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	538 (164LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						578 (176LM/ft)		
	4000K	3770-4220K						635 (194LM/ft)		

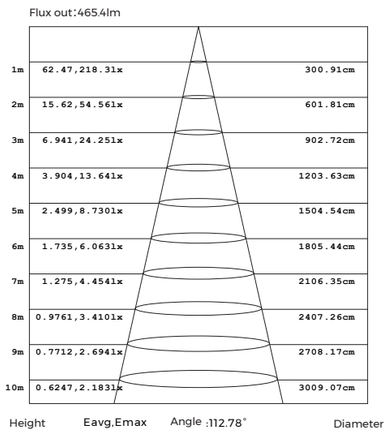
Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+∞;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%): 113.2°

Light distribution



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

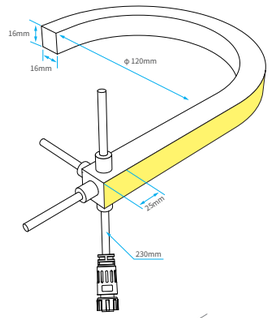
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

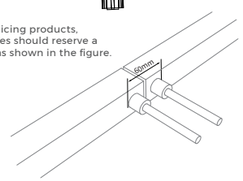
End cap

ENP:

IP67

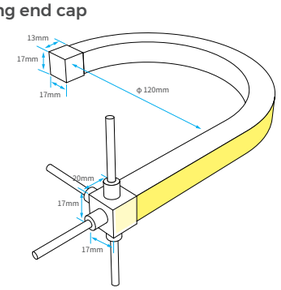


When splicing products, the profiles should reserve a spacing as shown in the figure.

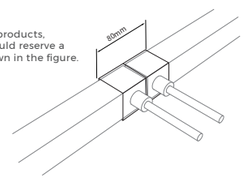


Gluing end cap

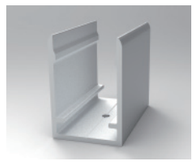
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

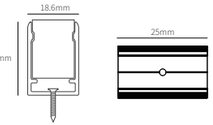


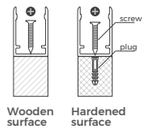
Installation accessory

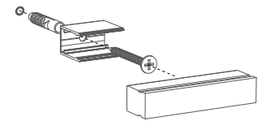


Flat mounting clip

Order model: AS-GMS/T1616A-25
Dimension: 25x18.6x21.1mm
screw model: KA-M4
screw QTY: 1 PCS

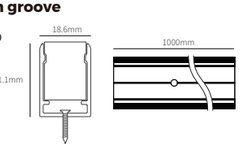


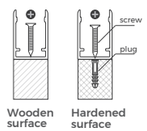


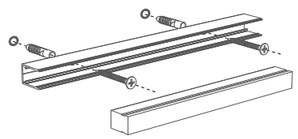


Flat mounting aluminum groove

Order model: AS-GMS/T1616A-1000
Dimension: 1000x18.6x21.1mm
screw model: KA-M4
screw QTY: 2 PCS

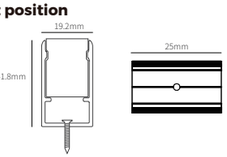


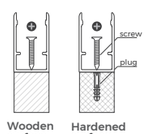


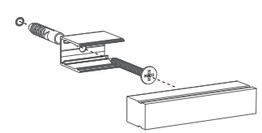


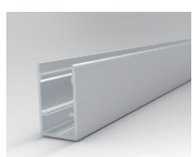
clip with reserved outlet position

Order model: AS-GMS/T1616A1-25
Dimension: 25x19.2x41.8mm
screw model: KA-M4
screw QTY: 1 PCS



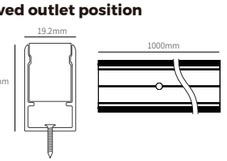


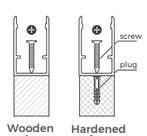


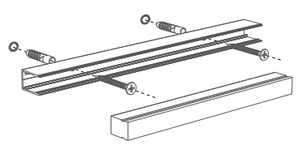


Aluminum groove of reserved outlet position

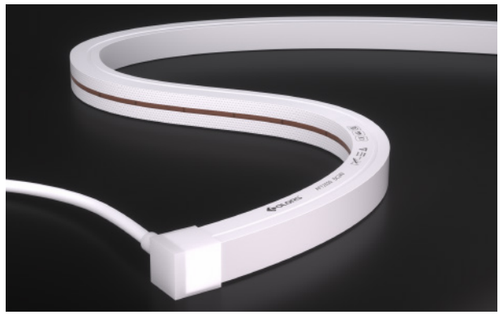
Order model: AS-GMS/T1616A1-1000
Dimension: 1000x19.2x41.8mm
screw model: KA-M4
screw QTY: 2 PCS







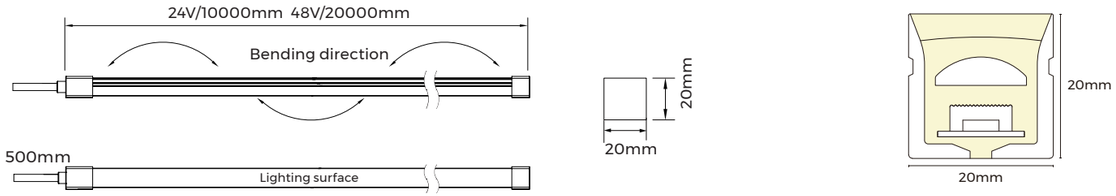
AFT2020



Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60℃, DMX/RGB/RGBW: -40~50℃
Storage temperature	0℃~60℃
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions



Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	588 (179LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						625 (191LM/ft)		
	4000K	3770-4220K						708 (216LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	290 (88LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						310 (95LM/ft)		
	4000K	3770-4220K						340 (104LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFT2020-0RGB24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFT2020- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	123 (38LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						140 (43LM/ft)		
	4000K	RGB+(3900-4350K)						136 (41LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020- 9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	441 (134LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							535 (163LM/ft)		
	4000K	3900-4350K							528 (161LM/ft)		

SPI neon light/DMX512 neon light - 24V

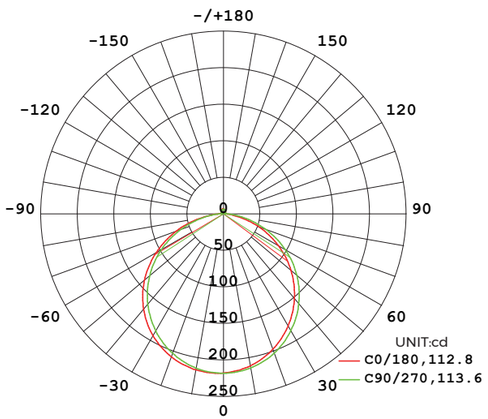
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020-0RGBM24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFT2020- 0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	141 (43LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							173 (53LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							174 (53LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFT2020-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	499 (152LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						572 (174LM/ft)		
	4000K	3770-4220K						609 (186LM/ft)		

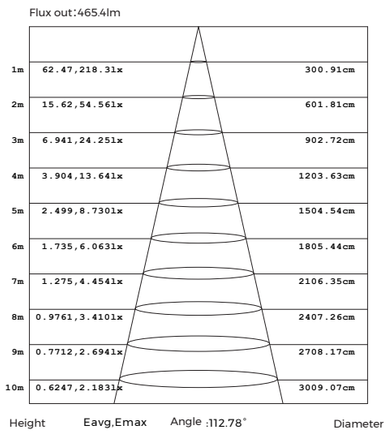
Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%): 113.2°

Light distribution



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

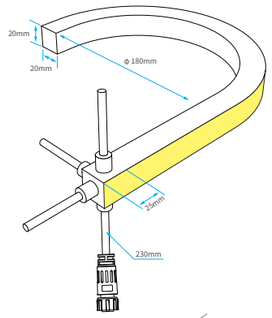
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

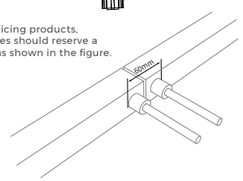
End cap

ENP:

IP67

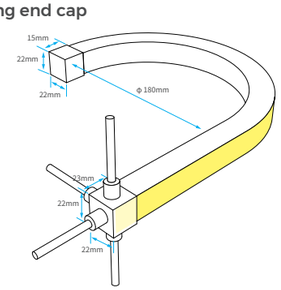


When splicing products, the profiles should reserve a spacing as shown in the figure.

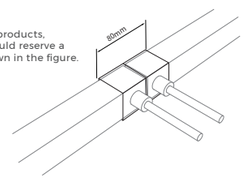


Gluing end cap

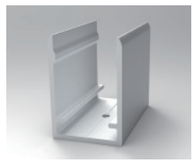
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

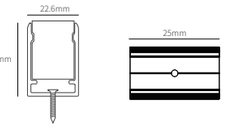


Installation accessory



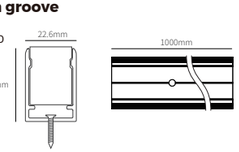
Flat mounting clip

Order model: AS-GMS/T2020A-25
Dimension: 25x22.6x24.7mm
screw model: KA-M4
screw QTY: 1 PCS



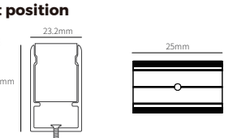
Flat mounting aluminum groove

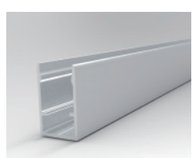
Order model: AS-GMS/T2020A-1000
Dimension: 1000x22.6x24.7mm
screw model: KA-M4
screw QTY: 2 PCS



clip with reserved outlet position

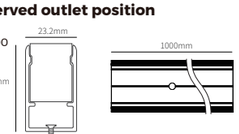
Order model: AS-GMS/T2020A1-25
Dimension: 25x23.2x45mm
screw model: KA-M4
screw QTY: 1 PCS



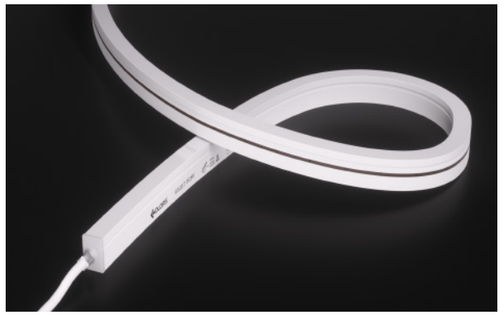


Aluminum groove of reserved outlet position

Order model: AS-GMS/T2020A1-1000
Dimension: 1000x23.2x45mm
screw model: KA-M4
screw QTY: 2 PCS



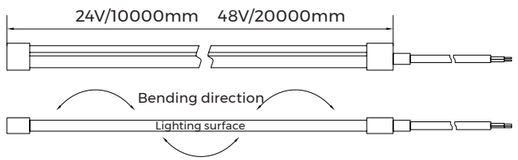
AFS1217

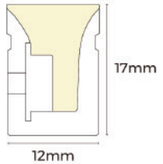


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60°C, DMX/RGB/RGBW: -40~50°C
Storage temperature	0°C~60°C
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED E486637 · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V - 15W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.625 (0.19A/ft)	15 (4.57W/ft)	16.5 (5.03W/ft)	541 (165LM/ft)	5000mm (16.4ft)	16LED/50mm
	2700K	2600-2830K						646 (197LM/ft)		
	3000K	2920-3170K						648 (198LM/ft)		
	4000K	3770-4220K						702 (214LM/ft)		
	6500K	5800-6800K						810 (247LM/ft)		

White light - 24V - 10W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	469 (143LM/ft)	10000mm (32.8ft)	16LED/50mm
	2700K	2600-2830K						538 (164LM/ft)		
	3000K	2920-3170K						538 (164LM/ft)		
	4000K	3770-4220K						669 (204LM/ft)		
	6500K	6000-7000K						632 (193LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-0X24 CSW025CCXXXX -GV10-ENP-ESD	R	/		/	24	0.3 (0.09A/ft)	7.2 (2.20W/ft)	7.92 (2.41W/ft)	/	10000mm (32.81ft)	16LED/50mm
	G					0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)			
	B										
AFS1217-0RGB 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/		/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFS1217L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)		/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	103 (31LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)							122 (37LM/ft)		
	4000K	RGB+(3900-4350K)							119 (36LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	370 (113LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K						460 (140LM/ft)		
	4000K	3900-4350K						460 (140LM/ft)		

SPI neon light / DMX512 neon light - 24V

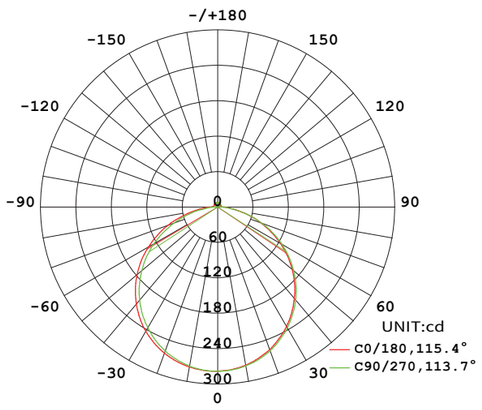
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-0RGBM 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/		/	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFS1217-0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	24	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	121 (37LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							148 (45LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							151 (46LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1217-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	503 (153LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						530 (162LM/ft)		
	4000K	3770-4220K						606 (185LM/ft)		

Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):114.6°

Light distribution

Flux out:378.5lm

1m	50.80,176.01lx	305.89cm
2m	12.70,44.001lx	611.78cm
3m	5.645,19.551lx	917.67cm
4m	3.175,11.001lx	1223.56cm
5m	2.032,7.0391lx	1529.45cm
6m	1.411,4.8881lx	1835.34cm
7m	1.037,3.5911lx	2141.23cm
8m	0.7938,2.7501lx	2447.12cm
9m	0.6272,2.1731lx	2753.01cm
10m	0.5080,1.7601lx	3058.89cm

Height Eavg.Emax Angle :113.72° Diameter

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

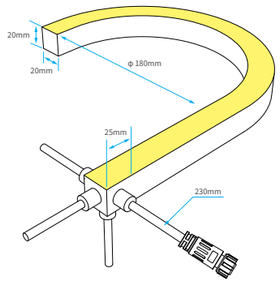
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

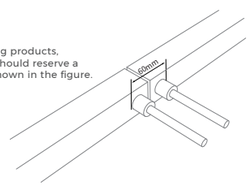
End cap

ENP:

IP67

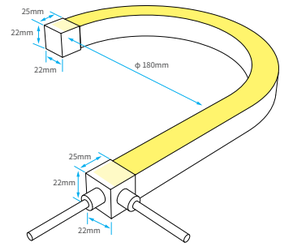


When splicing products, the profiles should reserve a spacing as shown in the figure.

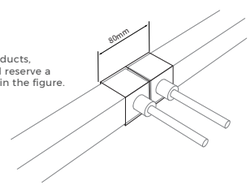


Gluing end cap

IP65

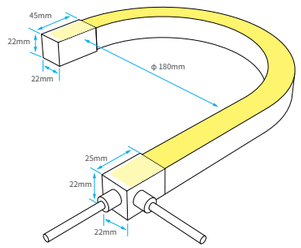


When splicing products, the profiles should reserve a spacing as shown in the figure.

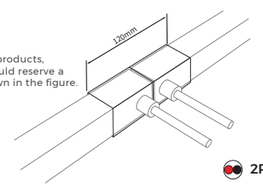


Solderless end cap

IP65

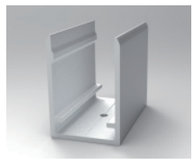


When splicing products, the profiles should reserve a spacing as shown in the figure.



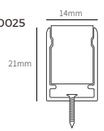
2PIN

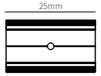
Installation accessory

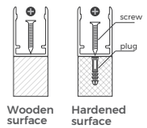


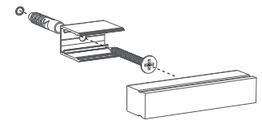
Flat mounting clip

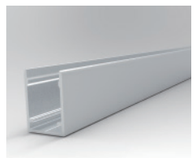
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





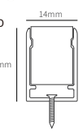


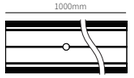


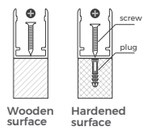


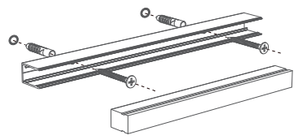
Flat mounting aluminum groove

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



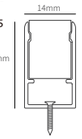


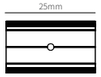


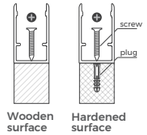


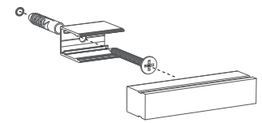
clip with reserved outlet position

Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS



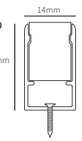


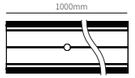


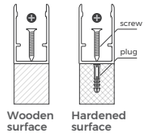


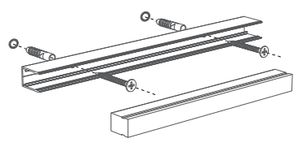
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



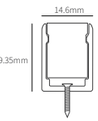


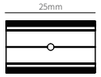


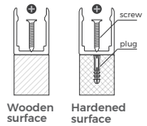


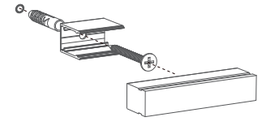
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



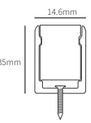


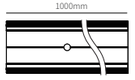


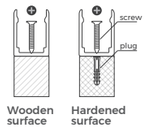


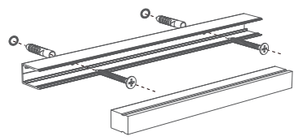
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



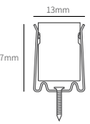


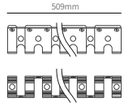


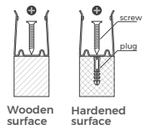


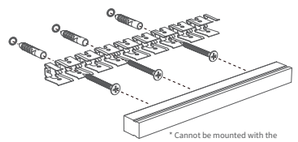
Moldable groove

Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS



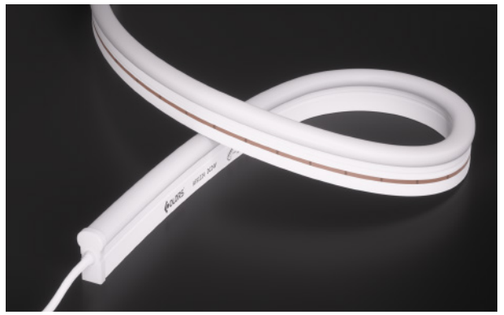






* Cannot be mounted with the illuminated side facing down

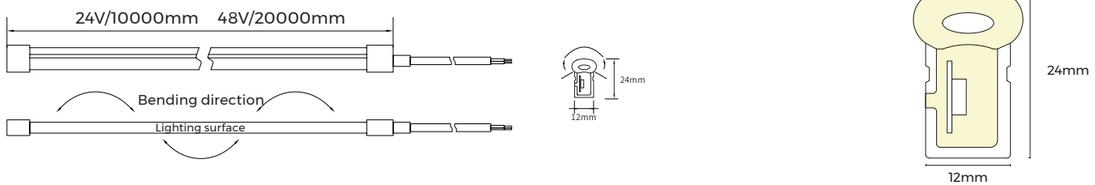
AFS1224



Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60°C, DMX/RGB/RGBW: -40~50°C
Storage temperature	0°C~60°C
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED E486637 · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions



Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	570 (174LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						622 (190LM/ft)		
	4000K	3770-4220K						690 (210LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	305 (93LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						300 (91LM/ft)		
	4000K	3770-4220K						310 (104LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224L-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFS1224-0RGB 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/f t)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFS1224L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	118 (36LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						146 (45LM/ft)		
	4000K	RGB+(3900-4350K)						143 (44LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	425 (130LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							542 (165LM/ft)		
	4000K	3900-4350K							541 (165LM/ft)		

SPI neon light/DMX512 neon light - 24V

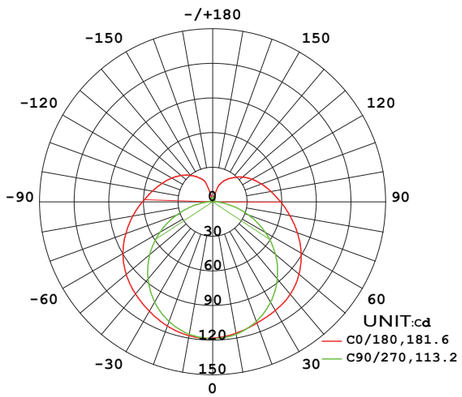
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224-0RGBM 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFS1224-0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	127 (39LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							178 (45LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							175 (53LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1224-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	503 (166LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						579 (177LM/ft)		
	4000K	3770-4220K						634 (193LM/ft)		

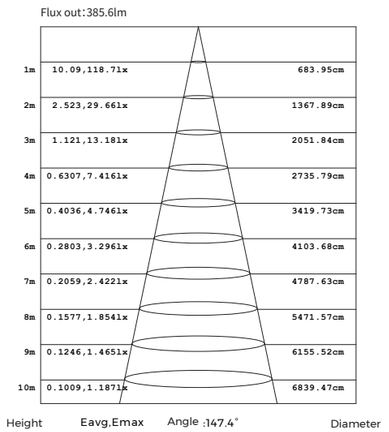
Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%)：147.4°

Light distribution



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

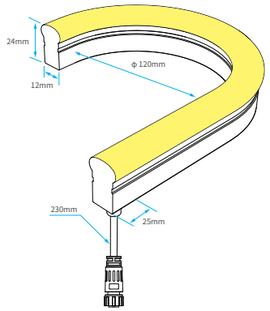
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

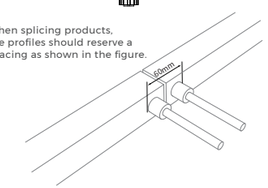
End cap

ENP:

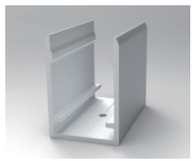
IP67



When splicing products, the profiles should reserve a spacing as shown in the figure.

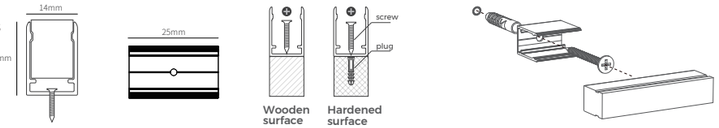


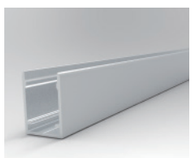
Installation accessory



Flat mounting clip

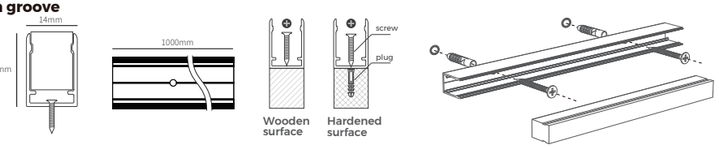
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





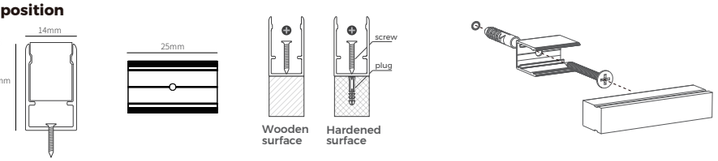
Flat mounting aluminum groove

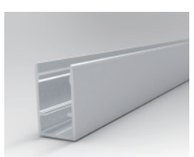
Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



clip with reserved outlet position

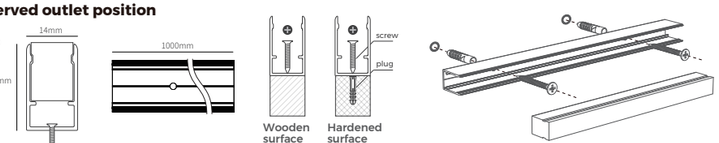
Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS





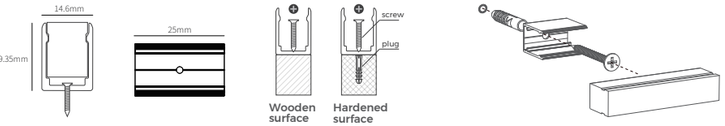
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



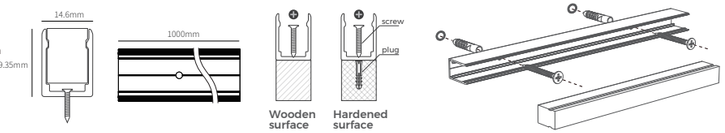
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



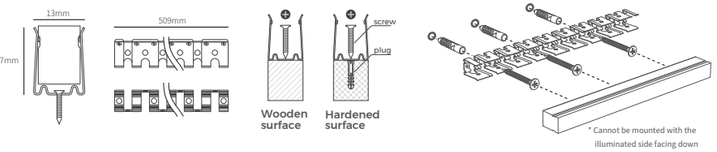
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



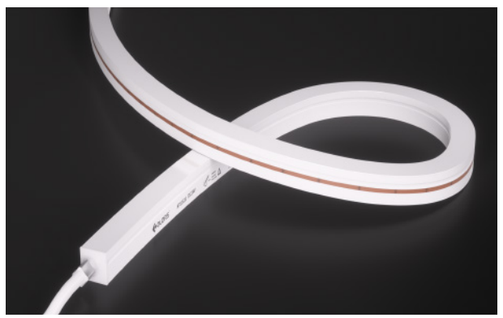
Moldable groove

Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS



* Cannot be mounted with the illuminated side facing down

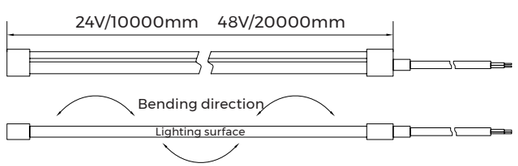
AFS1616

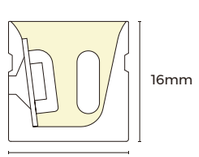


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60°C, DMX/RGB/RGBW: -40~50°C
Storage temperature	0°C~60°C
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED E486637 · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions





Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	553 (168LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						596 (182LM/ft)		
	4000K	3770-4220K						685 (209LM/ft)		
	6500K	6000-7000K						661 (202LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	295 (90LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						310 (95LM/ft)		
	4000K	3770-4220K						335 (102LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFS1616-0RGB24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/f t)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFS1616- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	120 (37LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						140 (43LM/ft)		
	4000K	RGB+(3900-4350K)						140 (43LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616-9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	420 (128LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							530 (162LM/ft)		
	4000K	3900-4350K							570 (174LM/ft)		

SPI neon light/DMX512 neon light - 24V

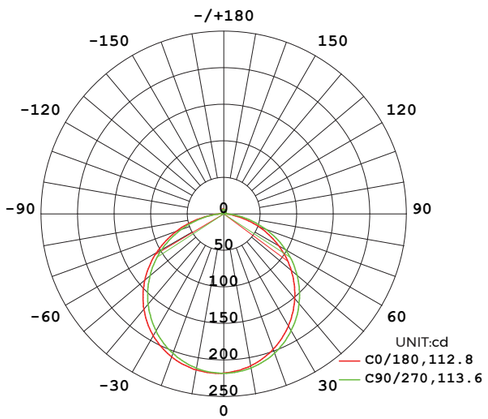
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616-0RGBM24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFS1616-0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	138 (42LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							179 (55LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							175 (53LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS1616-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	494 (151LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						546 (166LM/ft)		
	4000K	3770-4220K						602 (184LM/ft)		

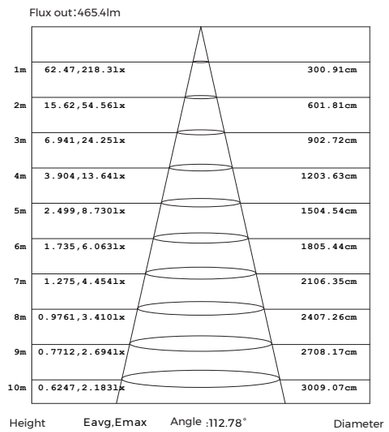
Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+∞;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%): 113.2°

Light distribution



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

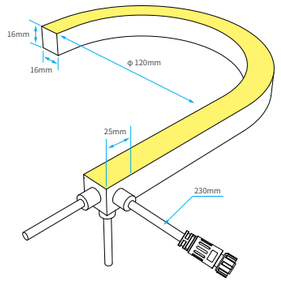
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

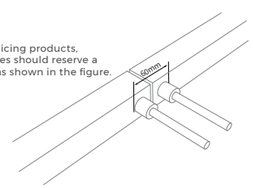
End cap

ENP:

IP67

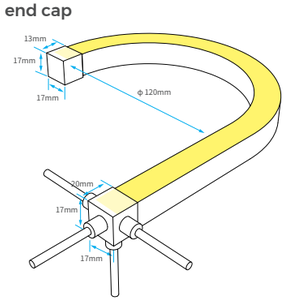


When splicing products, the profiles should reserve a spacing as shown in the figure.

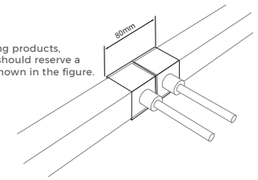


Gluing end cap

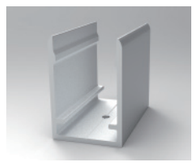
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

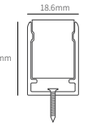


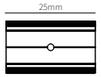
Installation accessory

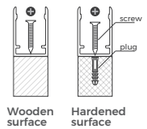


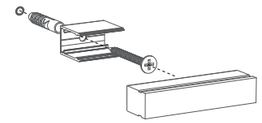
Flat mounting clip

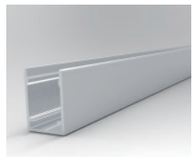
Order model: AS-GMS/T1616A-25
Dimension: 25x18.6x21.1mm
screw model: KA-M4
screw QTY: 1 PCS





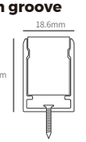


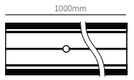


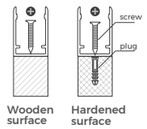


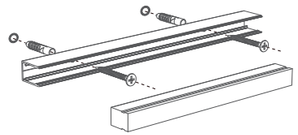
Flat mounting aluminum groove

Order model: AS-GMS/T1616A-1000
Dimension: 1000x18.6x21.1mm
screw model: KA-M4
screw QTY: 2 PCS



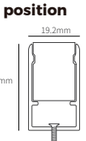


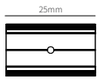


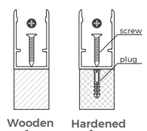


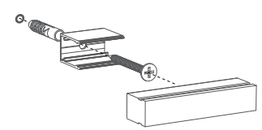
clip with reserved outlet position

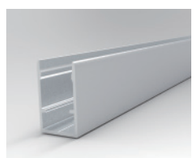
Order model: AS-GMS/T1616A1-25
Dimension: 25x19.2x41.8mm
screw model: KA-M4
screw QTY: 1 PCS





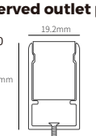


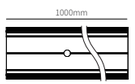


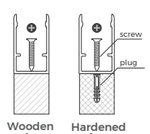


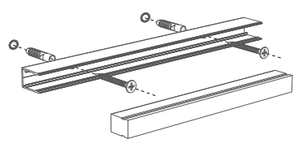
Aluminum groove of reserved outlet position

Order model: AS-GMS/T1616A1-1000
Dimension: 1000x19.2x41.8mm
screw model: KA-M4
screw QTY: 2 PCS

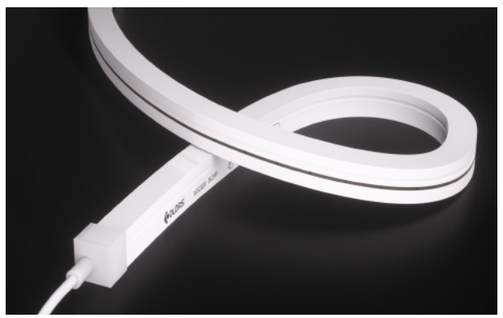








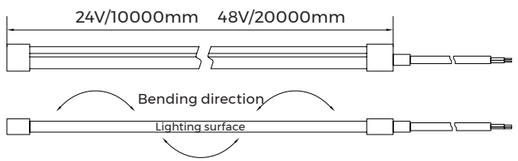
AFS2020

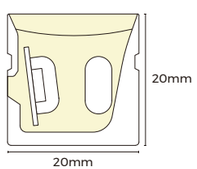


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application; Double-layer circuit conductive, double power supply guarantee, broken boards without power cut;
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
DMX Chip	White light/RGB/RGBW: UCS512H4LB, 65536 level grayscale effect
Pixel count	12 Pixels/m
IP	IP67
Product applications	Outdoor illumination, architectural facade lighting
Working temperature	White/monochromatic light: -40~60℃, DMX/RGB/RGBW: -40~50℃
Storage temperature	0℃~60℃
Warranty	White/R/G/B with 7 years warranty or working life =84000H, whichever comes first RGB/RGBW/RGBM/RGBWM/White(DMX) with 5 years, warranty or working life=60000H, whichever comes first

Indoor · outdoor · IP67 · IK08 · CE · UKCA · cULus LISTED E496637 · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · RoHS · CB

Dimensions





Luminaire Parameters

White light(High Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	574 (175LM/ft)	10000mm (32.81ft)	16LED/50mm
	3000K	2920-3170K						619 (189LM/ft)		
	4000K	3770-4220K						734 (224LM/ft)		

White light(Low Luminance) - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020L-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	24	0.2 (0.06A/ft)	5 (1.53W/ft)	5.5 (1.68W/ft)	305 (93LM/ft)	15000mm (49.21ft)	16LED/50mm
	3000K	2920-3170K						315 (96LM/ft)		
	4000K	3770-4220K						350 (107LM/ft)		

Color light - 24V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020-0X24 CSW025CCXXXX -GV10-ENP-ESD	G B	/	/	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	/	10000mm (32.81ft)	16LED/50mm
AFS2020-0RGB24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	24	0.5 (0.15A/f t)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	6*3LED/50mm
AFS2020- 0RGBXW24 CSW025CCXXXX -GV10-ENP-ESD	2700K	RGB+(2550-2800K)	/	24	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	123 (38LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm
	3000K	RGB+(2800-3200K)						141 (43LM/ft)		
	4000K	RGB+(3900-4350K)						137 (42LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020- 9XWM24 CSW025CCXXXX -GV10-ENP-ESD	2700K	2550-2800K	>90		24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	442 (135LM/ft)	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	3000K	2800-3200K							570 (174LM/ft)		
	4000K	3900-4350K							595 (181LM/ft)		

SPI neon light/DMX512 neon light - 24V

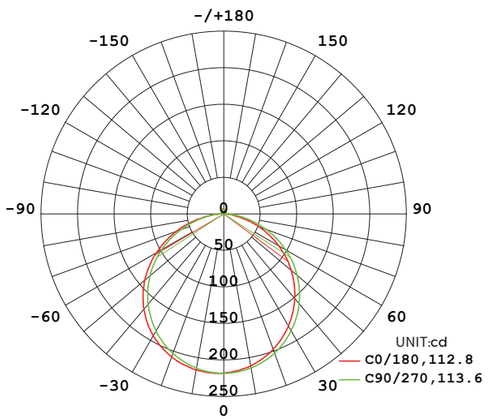
Model	CCT/colors	Color range	CRI	Pixel count (Pixels/m)	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020-0RGBM24 24CSW025CCXXXX -GV10-ENP-ESD	RGB	/	/	12	24	0.6 (0.18A/ft)	13.5 (4.12W/ft)	14.8 (4.51W/ft)	/	5000mm (16.4ft)	7*3LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
AFS2020- 0RGBXWM24 CSW025CC XXXX-GV10-ENP-ESD	RGB+2700K	RGB+(2550-2800K)	>90	12	24	0.7 (0.21A/ft)	16.5 (5.03W/ft)	18.1 (5.52W/ft)	123 (38LM/ft)	5000mm (16.4ft)	7*4LED/83.3mm DMX-IC: UCS512H4LB 12 Pixels/m
	RGB+3000K	RGB+(2900-3250K)							141 (43LM/ft)		
	RGB+4000K	RGB+(3900-4350K)							137 (42LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AFS2020-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2700K	2600-2830K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	499 (152LM/ft)	20000mm (65.62ft)	32LED/100mm
	3000K	2920-3170K						549 (167LM/ft)		
	4000K	3770-4220K						602 (184LM/ft)		

Note: 1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%): 113.2°

Light distribution

Flux out:465.4lm

1m	62.47,218.31lx	300.91cm
2m	15.62,54.561x	601.81cm
3m	6.941,24.251x	902.72cm
4m	3.904,13.641x	1203.63cm
5m	2.499,8.7301x	1504.54cm
6m	1.735,6.0631x	1805.44cm
7m	1.275,4.4541x	2106.35cm
8m	0.9761,3.4101x	2407.26cm
9m	0.7712,2.6941x	2708.17cm
10m	0.6247,2.1831x	3009.07cm

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

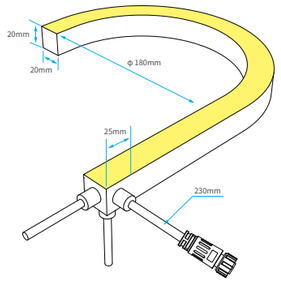
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

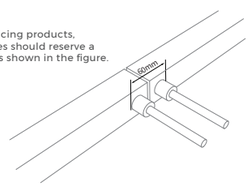
End cap

ENP:

IP67

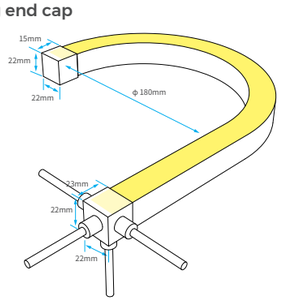


When splicing products, the profiles should reserve a spacing as shown in the figure.

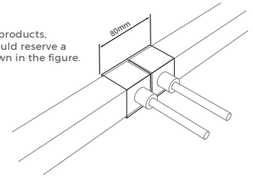


Gluing end cap

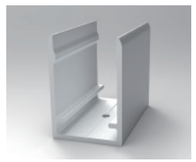
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

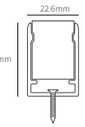


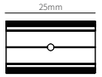
Installation accessory

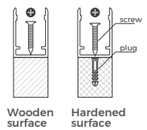


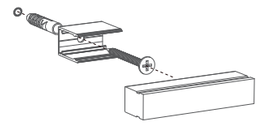
Flat mounting clip

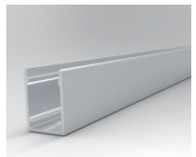
Order model: AS-GMS/T2020A-25
Dimension: 25x22.6x24.7mm
screw model: KA-M4
screw QTY: 1 PCS





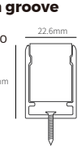


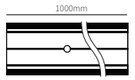


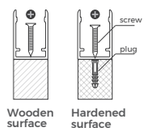


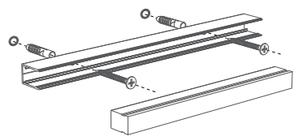
Flat mounting aluminum groove

Order model: AS-GMS/T2020A-1000
Dimension: 1000x22.6x24.7mm
screw model: KA-M4
screw QTY: 2 PCS



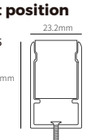


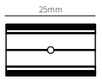


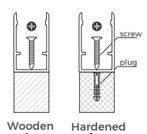


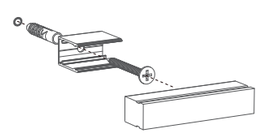
clip with reserved outlet position

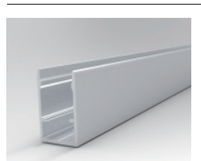
Order model: AS-GMS/T2020A1-25
Dimension: 25x23.2x45mm
screw model: KA-M4
screw QTY: 1 PCS





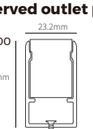


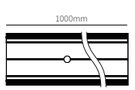


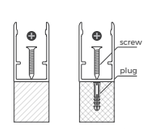


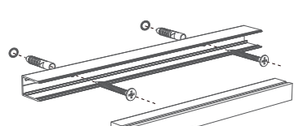
Aluminum groove of reserved outlet position

Order model: AS-GMS/T2020A1-1000
Dimension: 1000x23.2x45mm
screw model: KA-M4
screw QTY: 2 PCS









AH Free Cutting Series

Model Recommendation

AHT1312 AHT1615 AHT1616 AHT2020
AHS1217 AHS1224 AHS1616 AHS2020

Core Feature Advantages

Free Cutting & High Light Efficiency,Suitable For Temperate Regions

650N
Pulling test

>2000 times
720° twist

3000H
UV test

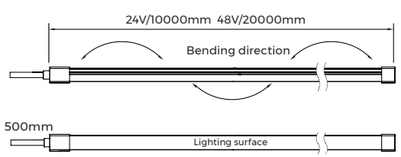
SDCM<5
ANSI C78.377

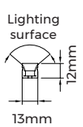
AHT1312

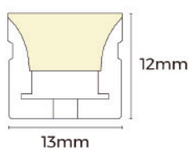
Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED · Reach · RoHS · CB

Dimensions







Luminaire Parameters

White light - 24V - 10W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1312-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	870 (265LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						1030 (314LM/ft)		
	3000K	2920-3170K						1090 (332LM/ft)		
	4000K	3770-4220K						1145 (349LM/ft)		

White light - 24V - 15W

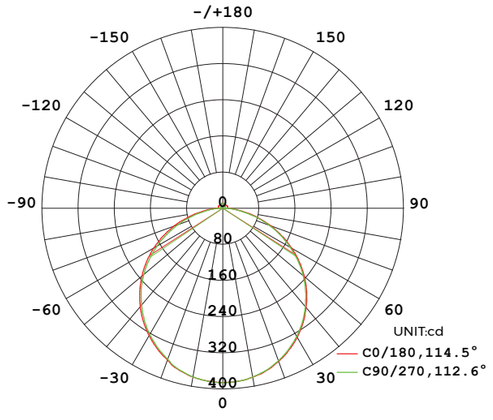
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1312-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2100-2300K	>90	24	0.625 (0.19A/ft)	15 (4.57W/ft)	16.5 (5.03W/ft)	1213 (370LM/ft)	5000mm (16.4ft)	1LED/6.25mm
	2700K	2600-2830K						1467 (447LM/ft)		
	3000K	2920-3170K						1508 (460LM/ft)		
	4000K	3770-4220K						1491 (455LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1312-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	910 (277LM/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2630-2830K						1100 (335LM/ft)		
	3000K	2920-3170K						1150 (351 LM/ft)		
	4000K	3770-4220K						1220 (372LM/ft)		

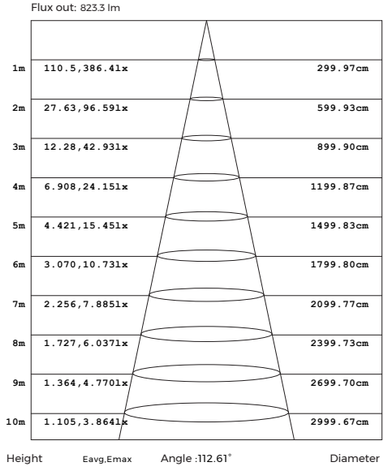
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):113.6°

Light distribution



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

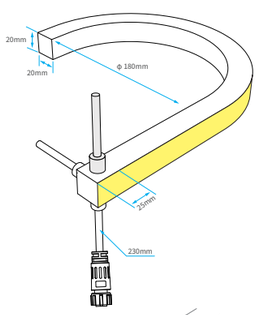
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

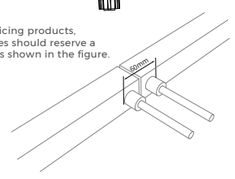
End cap

ENP

IP67

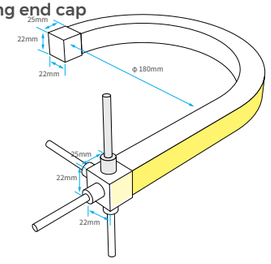


When splicing products, the profiles should reserve a spacing as shown in the figure.

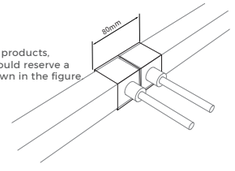


Gluing end cap

IP65

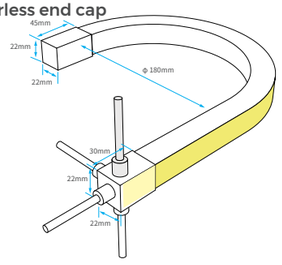


When splicing products, the profiles should reserve a spacing as shown in the figure.

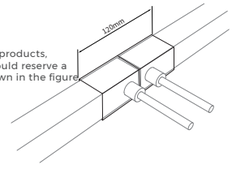


Solderless end cap

IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

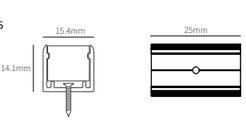


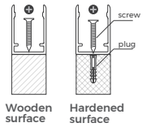
2PIN

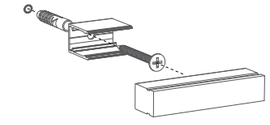
Installation accessory

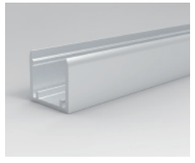
Flat mounting clip

Order model: AS-NMT1312A-25
Dimension: 25x15.4x14.1mm
screw model: KA-M4
screw QTY: 1 PCS



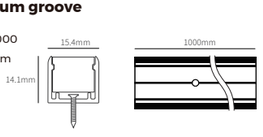


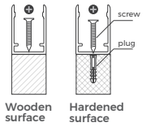


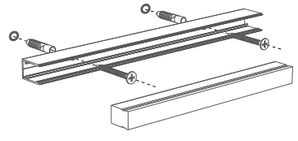


Flat mounting aluminum groove

Order model: AS-NMT1312A-1000
Dimension: 1000x15.4x14.1mm
screw model: KA-M4
screw QTY: 2 PCS

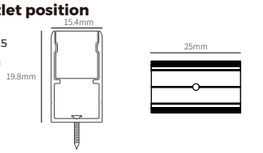


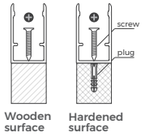


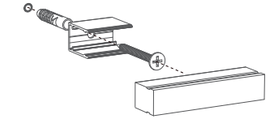


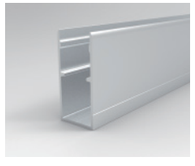
Clip with reserved outlet position

Order model: AS-NMT1312B1-25
Dimension: 25x15.4x19.8mm
screw model: KA-M4
screw QTY: 1 PCS



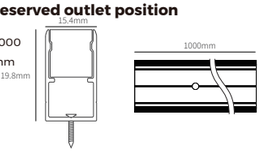


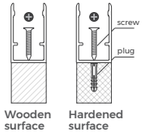


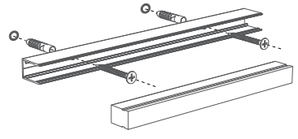


Aluminum groove of reserved outlet position

Order model: AS-NMT1312B1-1000
Dimension: 1000x15.4x19.8mm
screw model: KA-M4
screw QTY: 2 PCS

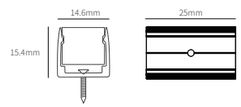


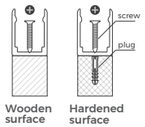


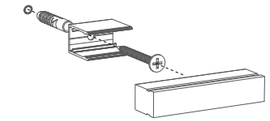


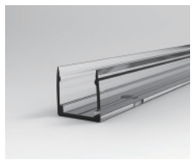
Flat mount PC clip

Order model: AS-NMT1312P-25
Dimension: 25x15.4x14.6mm
screw model: KA-M4
screw QTY: 1 PCS



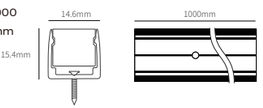


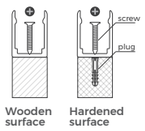


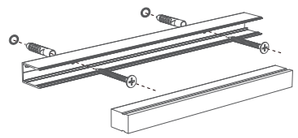


Flat mount PC slot

Order model: AS-NMT1312P-1000
Dimension: 1000x15.4x14.6mm
screw model: KA-M4
screw QTY: 2 PCS

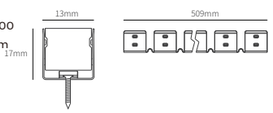


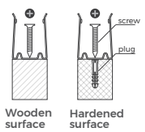


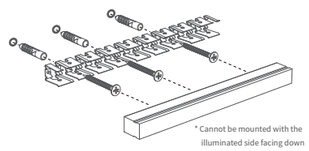


Moldable groove

Order model: AS-NMT1312M-500
Dimension: 500x13.7x13.6mm
screw model: KA-M4
screw QTY: 8 PCS







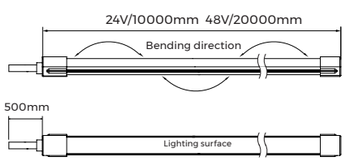
* Cannot be mounted with the illuminated side facing down

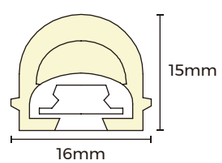
AHT1615

Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED E496607 · Reach · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V

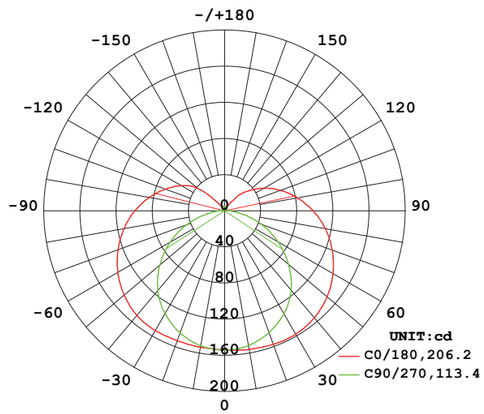
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1615-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	780 (238 LM/ft)	10000mm (32.81ft)	1LED /6.25mm
	2700K	2630-2830K						940 (287LM/ft)		
	3000K	2920-3170K						990 (302LM/ft)		
	4000K	3770-4220K						980 (299LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1615-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	860 (262LM/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2630-2830K						1025 (313 LM/ft)		
	3000K	2920-3170K						1095 (334LM/ft)		
	4000K	3770-4220K						1135 (346LM/ft)		

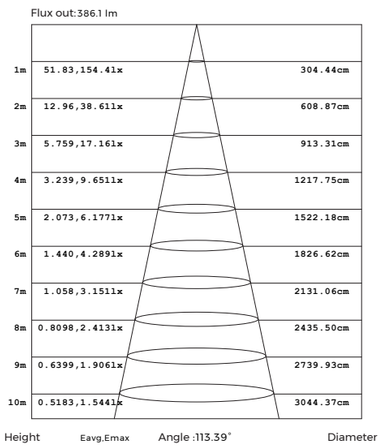
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):159.8°

Light distribution



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

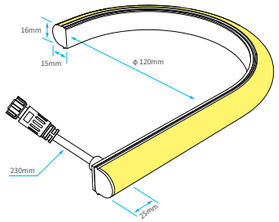
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

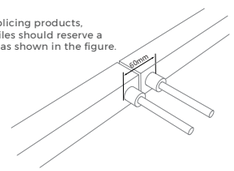
End cap

ENP:

IP67



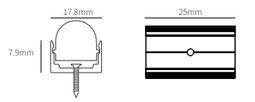
When splicing products, the profiles should reserve a spacing as shown in the figure.

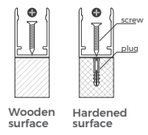


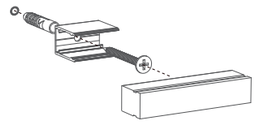
Installation accessory

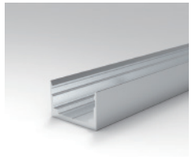
Flat mounting clip

Order model: AS-NNT1615A-25
Dimension: 25x17.8x7.9mm
screw model: KA-M4
screw QTY: 1 PCS



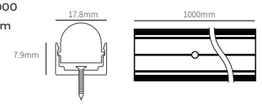


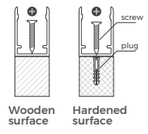


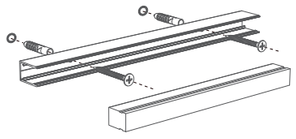


Flat mounting aluminum groove

Order model: AS-NNT1615A-1000
Dimension: 1000x17.8x7.9mm
screw model: KA-M4
screw QTY: 2 PCS

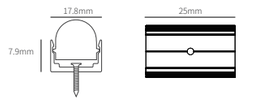


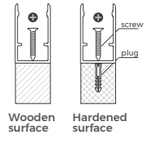


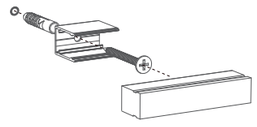


Flat mount PC clip

Order model: AS-NNT1615P-25
Dimension: 25x19.4x7.9mm
screw model: KA-M4
screw QTY: 1 PCS

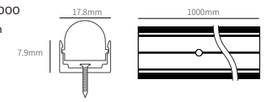


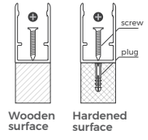


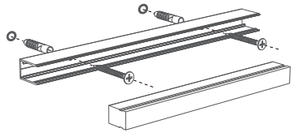


Flat mount PC slot

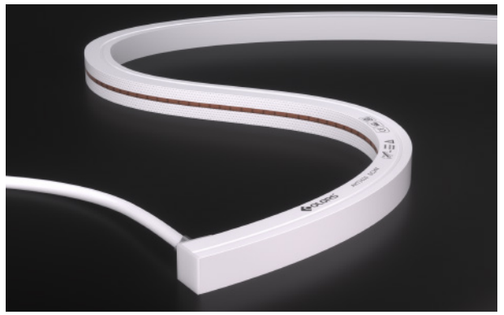
Order model: AS-NNT1615P-1000
Dimension: 1000x19.4x7.9m
screw model: KA-M4
screw QTY: 2 PCS







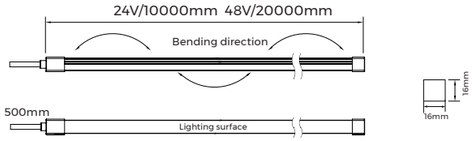
AHT1616

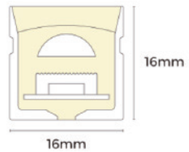


Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED · Reach · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V

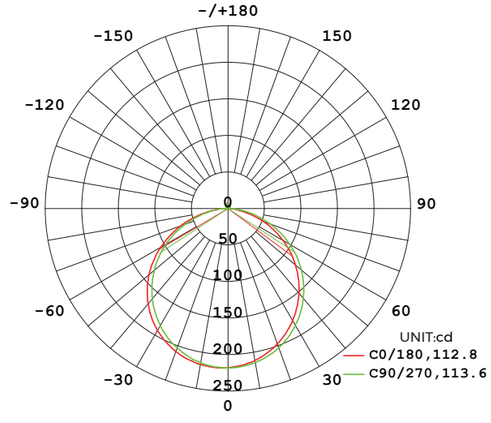
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1616-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	725 (221LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						860 (262LM/ft)		
	3000K	2920-3170K						910 (277 LM/ft)		
	4000K	3770-4220K						940 (287LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1616-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	800 (244LM/ft)	20000mm (65.6ft)	2LED/12.5mm
	2700K	2630-2830K						930 (284LM/ft)		
	3000K	2920-3170K						990 (302LM/ft)		
	4000K	3770-4220K						960 (293LM/ft)		

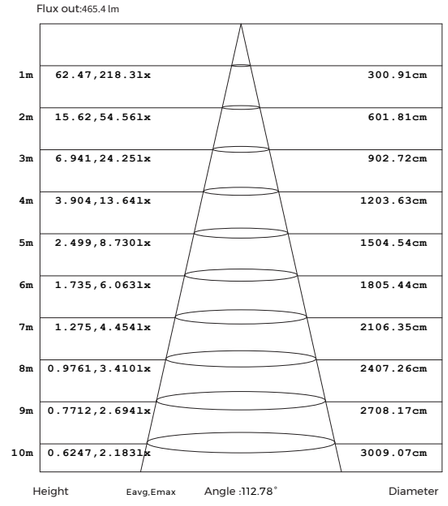
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):113.2°

Light distribution



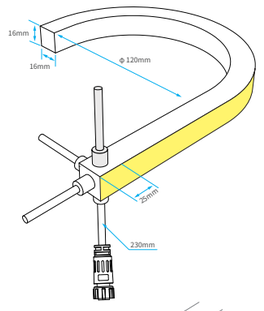
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

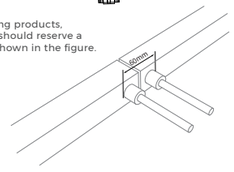
End cap

ENP

IP67

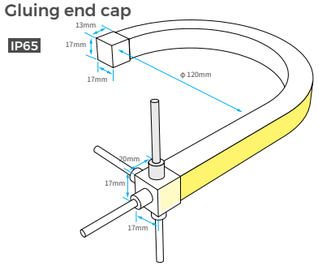


When splicing products, the profiles should reserve a spacing as shown in the figure.

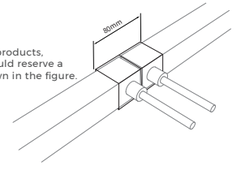


Gluing end cap

IP65



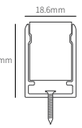
When splicing products, the profiles should reserve a spacing as shown in the figure.

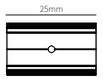


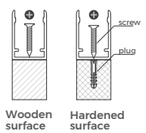
Installation accessory

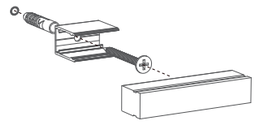
Flat mounting clip

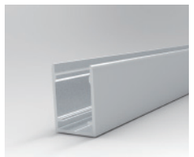
Order model: AS-GMS/T1616A-25
Dimension: 25x18.6x21.1mm
screw model: KA-M4
screw QTY: 1 PCS





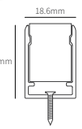


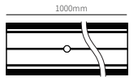


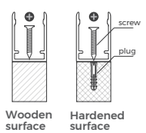


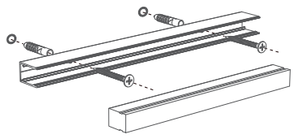
Flat mounting aluminum groove

Order model: AS-GMS/T1616A-1000
Dimension: 1000x18.6x21.1mm
screw model: KA-M4
screw QTY: 2 PCS



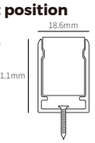


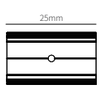


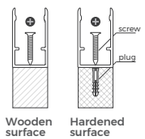


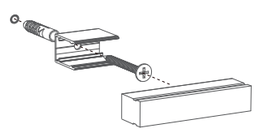
clip with reserved outlet position

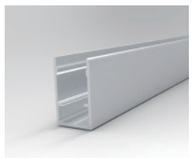
Order model: AS-GMS/T1616A1-25
Dimension: 25x19.2x41.8mm
screw model: KA-M4
screw QTY: 1 PCS





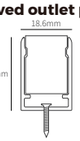


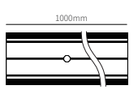


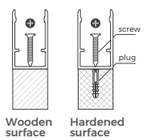


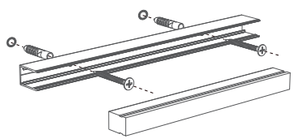
Aluminum groove of reserved outlet position

Order model: AS-GMS/T1616A1-1000
Dimension: 1000x19.2x41.8mm
screw model: KA-M4
screw QTY: 2 PCS

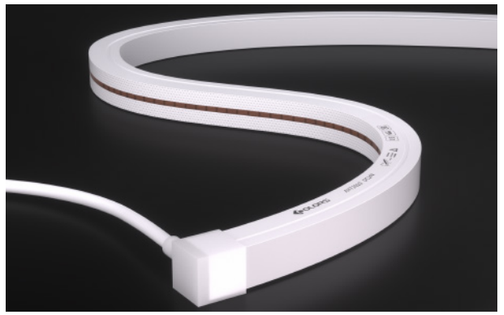








AHT2020



Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED · Reach · RoHS · CB

Dimensions

Luminaire Parameters

White light - 24V

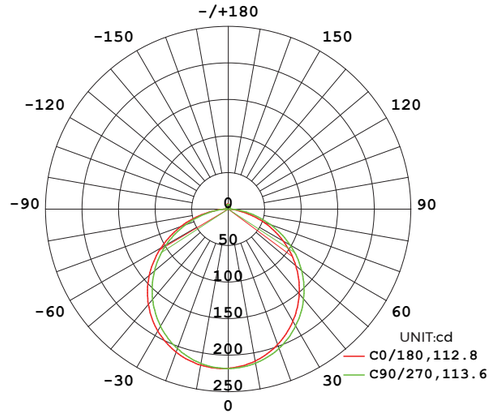
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT2020-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	715 (218LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						860 (262LM/ft)		
	3000K	2920-3170K						880 (268LM/ft)		
	4000K	3770-4220K						940 (287 LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT2020-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	755 (230LM/ft)	20000mm (65.6ft)	2LED/12.5mm
	2700K	2630-2830K						900 (274 LM/ft)		
	3000K	2920-3170K						970 (296LM/ft)		
	4000K	3770-4220K						1010 (308LM/ft)		

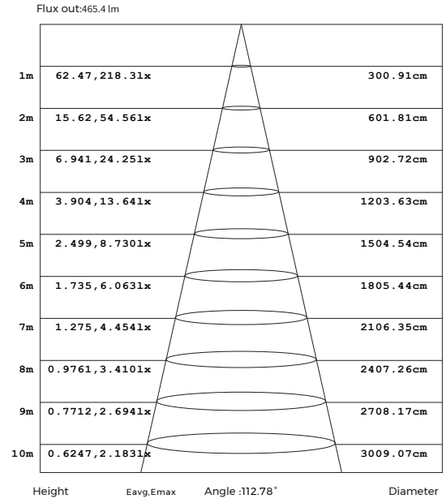
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):113.2°

Light distribution



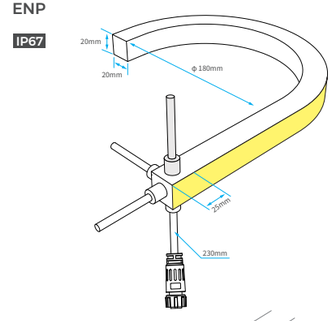
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

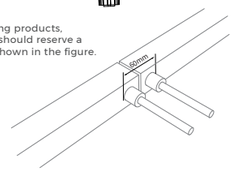
End cap

ENP

IP67

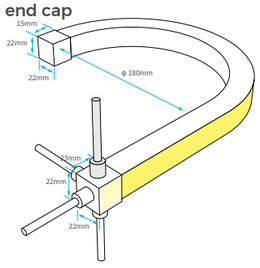


When splicing products, the profiles should reserve a spacing as shown in the figure.

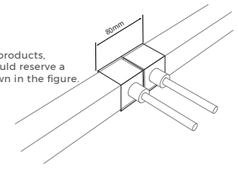


Gluing end cap

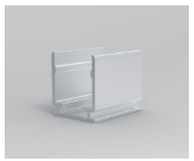
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

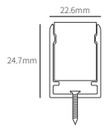


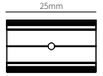
Installation accessory

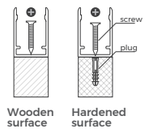


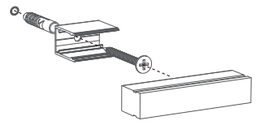
Flat mounting clip

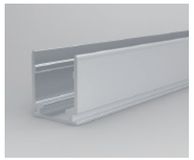
Order model: AS-GMS/T2020A-25
Dimension: 25x22.6x24.7mm
screw model: KA-M4
screw QTY: 1 PCS





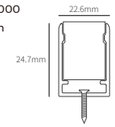


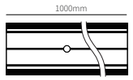


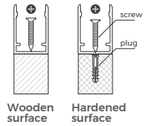


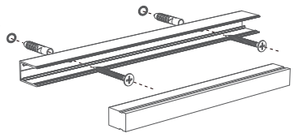
Flat mounting aluminum groove

Order model: AS-GMS/T2020A-1000
Dimension: 1000x22.6x24.7mm
screw model: KA-M4
screw QTY: 2 PCS



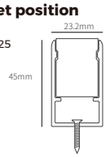


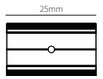


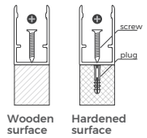


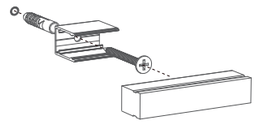
Clip with reserved outlet position

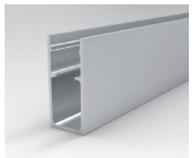
Order model: AS-GMS/T2020A1-25
Dimension: 25x23.2x45mm
screw model: KA-M4
screw QTY: 1 PCS





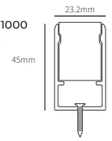


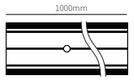


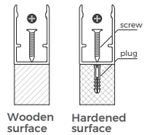


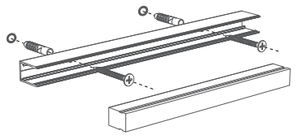
Aluminum groove of reserved outlet position

Order model: AS-GMS/T2020A1-1000
Dimension: 1000x23.2x45mm
screw model: KA-M4
screw QTY: 2 PCS







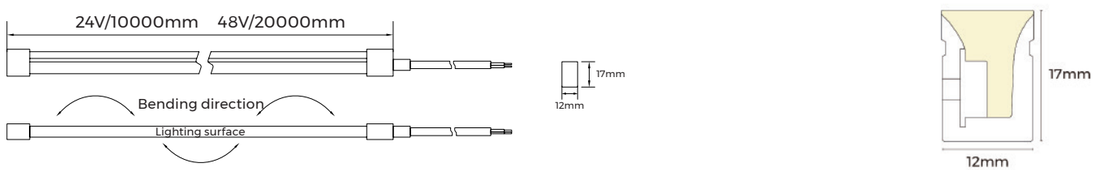


AHS1217

Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED · Reach · RoHS · CB · III

Dimensions



Luminaire Parameters

White light - 24V - 10W

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1217-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	605 (184LM/ft)	10000mm (32.81ft)	1LED /6.25mm
	2700K	2600-2830K						730 (223LM/ft)		
	3000K	2920-3170K						775 (236LM/ft)		
	4000K	3770-4220K						795 (242LM/ft)		

White light - 24V - 15W

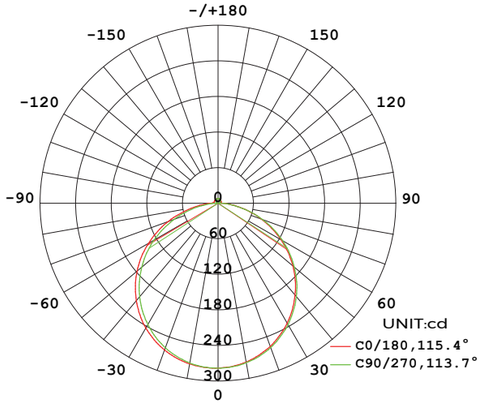
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1217-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.625 (0.19A/ft)	15 (4.57W/ft)	16.5 (5.03W/ft)	840 (256LM/ft)	5000mm (16.4ft)	1LED /6.25mm
	2700K	2600-2830K						1030 (314 LM/ft)		
	3000K	2920-3170K						1033 (315 LM/ft)		
	4000K	3770-4220K						1000 (305LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1217-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	650 (198LM/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2600-2830K						770 (235 LM/ft)		
	3000K	2920-3170K						815 (248LM/ft)		
	4000K	3770-4220K						890 (271 LM/ft)		

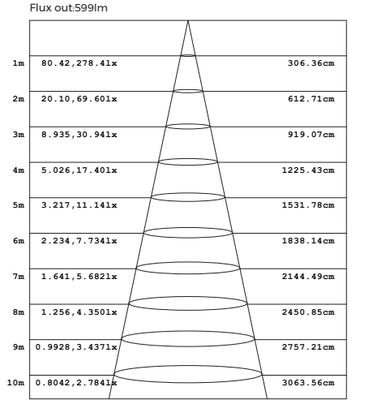
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):114.6°

Light distribution



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

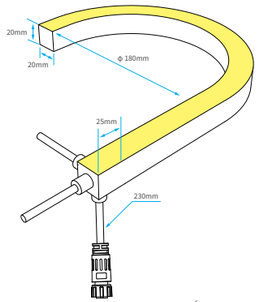
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

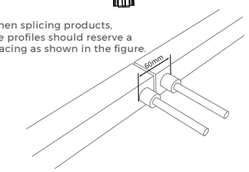
End cap

ENP

IP67

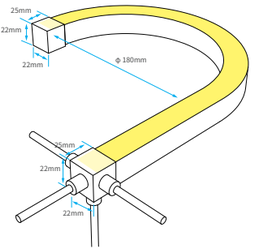


When splicing products, the profiles should reserve a spacing as shown in the figure.

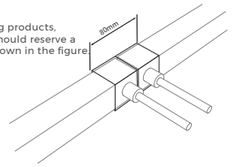


Gluing end cap

IP65

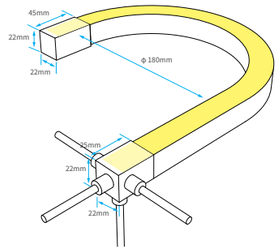


When splicing products, the profiles should reserve a spacing as shown in the figure.

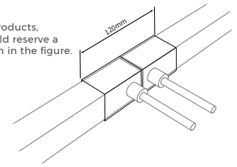


Solderless end cap

IP65

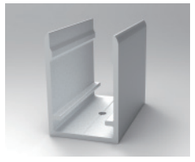


When splicing products, the profiles should reserve a spacing as shown in the figure.



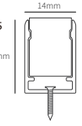
2PIN

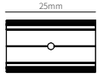
Installation accessory

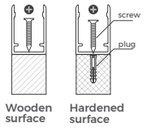


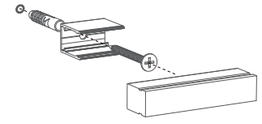
Flat mounting clip

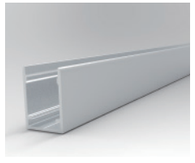
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





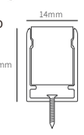


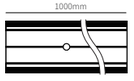


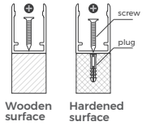


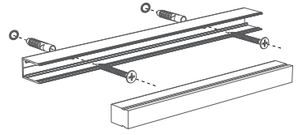
Flat mounting aluminum groove

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



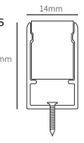


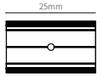


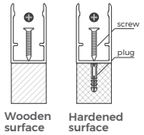


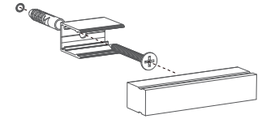
Clip with reserved outlet position

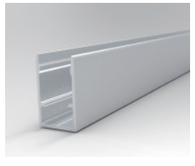
Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS





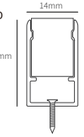


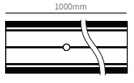


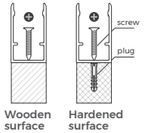


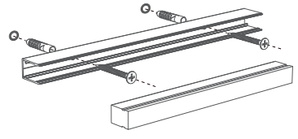
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



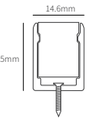


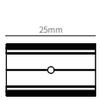


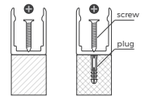


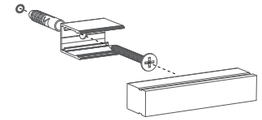
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



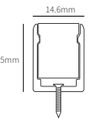


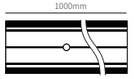


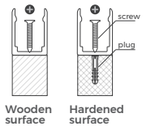


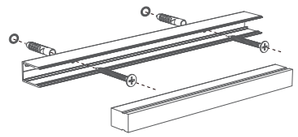
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



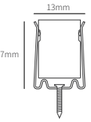


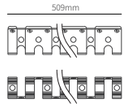


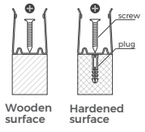


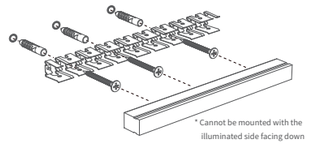
Moldable groove

Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS



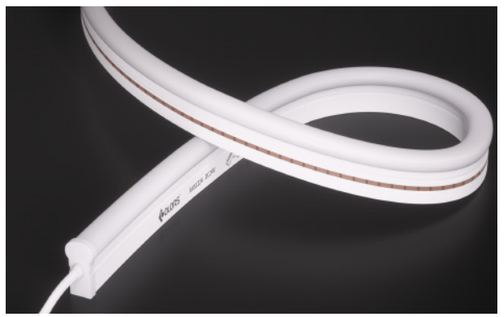






* Cannot be mounted with the illuminated side facing down

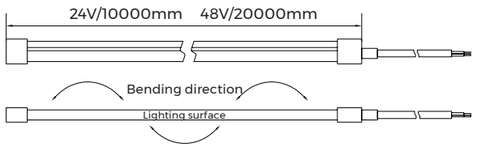
AHS1224

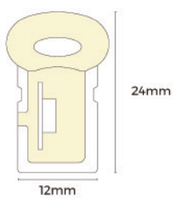


Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · Reach · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V

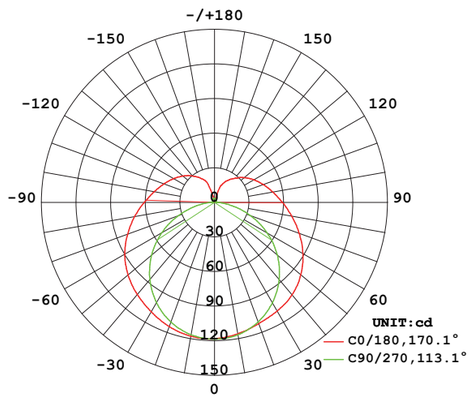
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1224-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	640 (195LM/ft)	10000mm (32.81ft)	1LED /6.25mm
	2700K	2600-2830K						780 (238LM/ft)		
	3000K	2920-3170K						820 (250LM/ft)		
	4000K	3770-4220K						850 (259LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1224-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	695 (212LM/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2600-2830K						845 (258LM/ft)		
	3000K	2920-3170K						890 (271 LM/ft)		
	4000K	3770-4220K						940 (287LM/ft)		

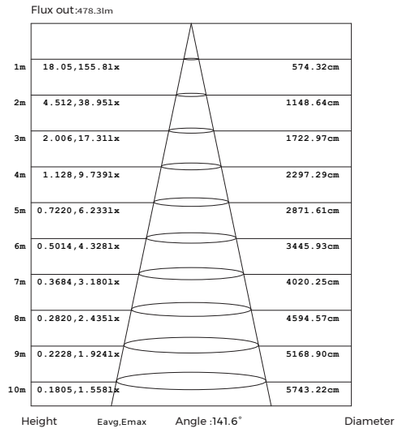
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):141.6°

Light distribution



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

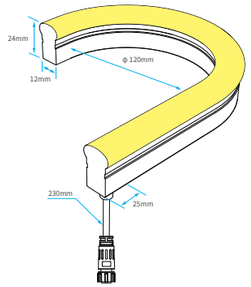
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

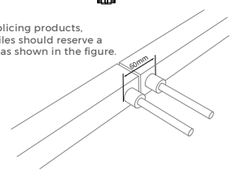
End cap

ENP:

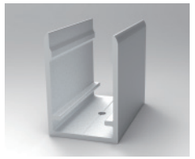
IP67



When splicing products, the profiles should reserve a spacing as shown in the figure.

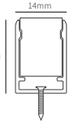


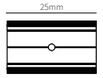
Installation accessory

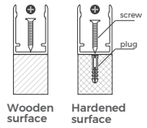


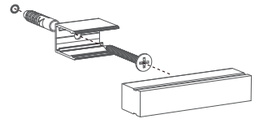
Flat mounting clip

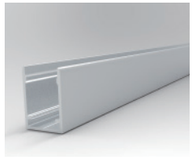
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





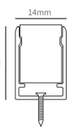


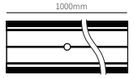


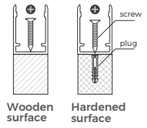


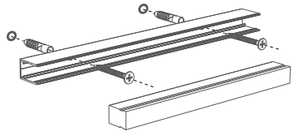
Flat mounting aluminum groove

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



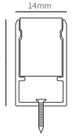


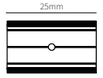


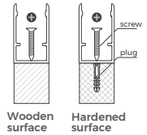


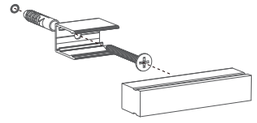
Clip with reserved outlet position

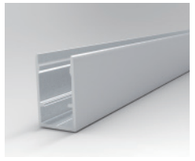
Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS





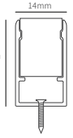


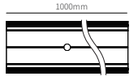


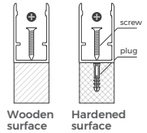


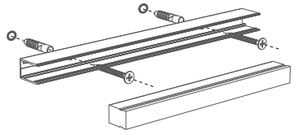
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



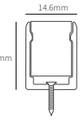


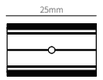


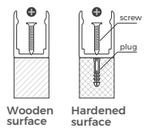


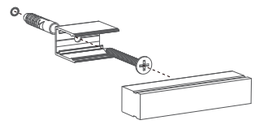
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



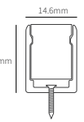


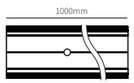


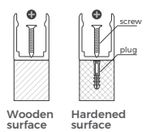


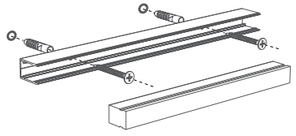
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



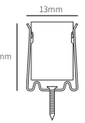


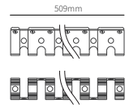


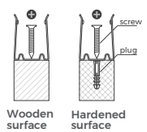


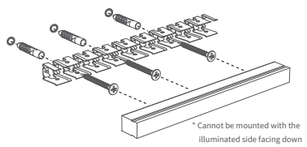
Moldable groove

Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS







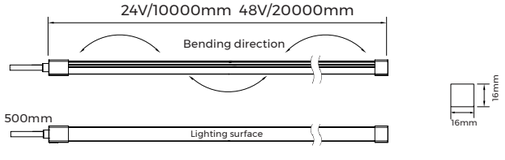


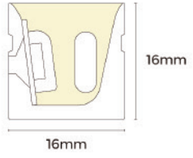
AHS1616

Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED · Reach · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V

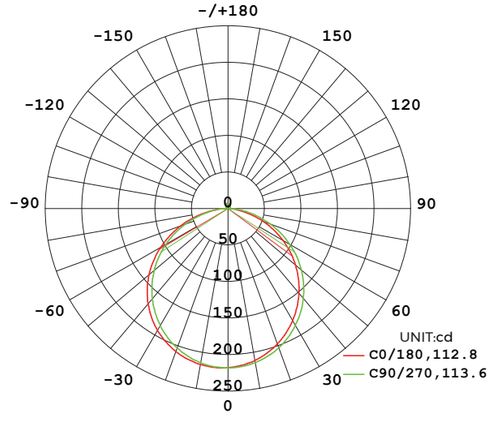
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1616-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	640 (195LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						765 (233LM/ft)		
	3000K	2920-3170K						820 (250LM/ft)		
	4000K	3770-4220K						855 (261LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS1616-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	715 (218LM/ft)	20000mm (65.6ft)	2LED/12.5mm
	2700K	2630-2830K						840 (256LM/ft)		
	3000K	2920-3170K						905 (276LM/ft)		
	4000K	3770-4220K						935 (285LM/ft)		

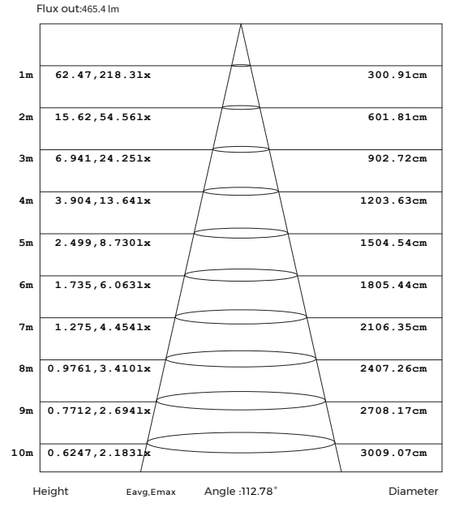
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):113.2°

Light distribution



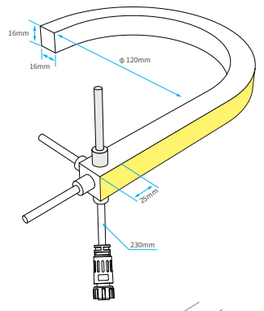
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

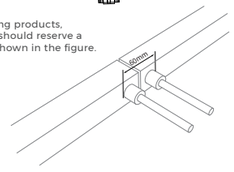
End cap

ENP

IP67

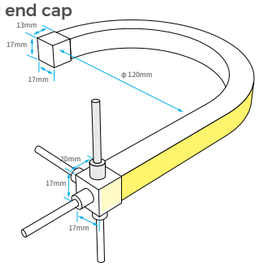


When splicing products, the profiles should reserve a spacing as shown in the figure.

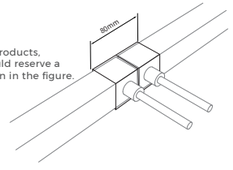


Gluing end cap

IP65



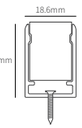
When splicing products, the profiles should reserve a spacing as shown in the figure.

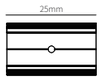


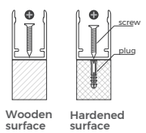
Installation accessory

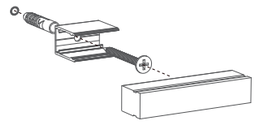
Flat mounting clip

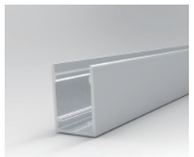
Order model: AS-GMS/T1616A-25
Dimension: 25x18.6x21.1mm
screw model: KA-M4
screw QTY: 1 PCS





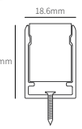


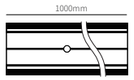


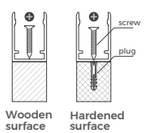


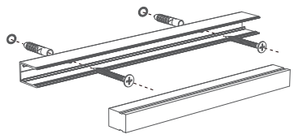
Flat mounting aluminum groove

Order model: AS-GMS/T1616A-1000
Dimension: 1000x18.6x21.1mm
screw model: KA-M4
screw QTY: 2 PCS



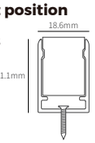


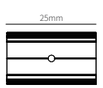


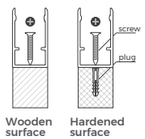


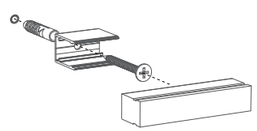
clip with reserved outlet position

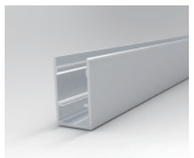
Order model: AS-GMS/T1616A1-25
Dimension: 25x19.2x41.8mm
screw model: KA-M4
screw QTY: 1 PCS





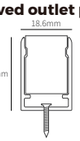


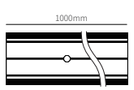


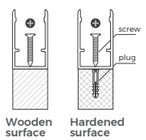


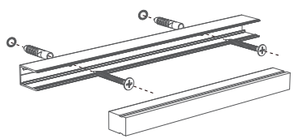
Aluminum groove of reserved outlet position

Order model: AS-GMS/T1616A1-1000
Dimension: 1000x19.2x41.8mm
screw model: KA-M4
screw QTY: 2 PCS







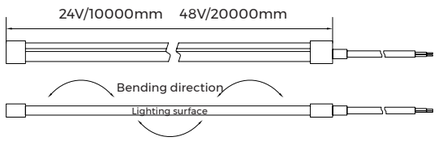


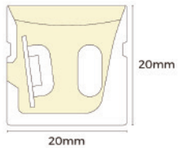
AHS2020

Light source	High luminous efficiency LED, 24V free cutting; Double power supply guarantee, broken boards without power cut
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Process material	three-color silicone extrusion technique is applied, Cut as your wish
IP	IP67
Product applications	Signboard lighting, outdoor/internal decorative lighting, architectural contour application
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	7 years warranty

Indoor · outdoor · IP67 · IK08 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · CE · UKCA · cULus LISTED E496607 · Reach · RoHS · CB

Dimensions





Luminaire Parameters

White light - 24V

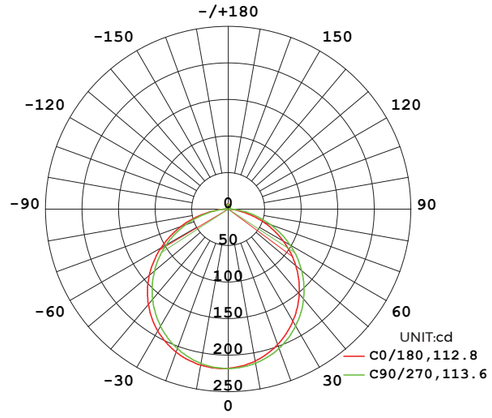
Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS2020-9XX24 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	665 (203LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						785 (239LM/ft)		
	3000K	2920-3170K						845 (258LM/ft)		
	4000K	3770-4220K						895 (273LM/ft)		

White light - 48V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHS2020-9XX48 CSW025CCXXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	735 (224LM/ft)	20000mm (65.6ft)	2LED/12.5mm
	2700K	2630-2830K						870 (265LM/ft)		
	3000K	2920-3170K						890 (271LM/ft)		
	4000K	3770-4220K						950 (290LM/ft)		

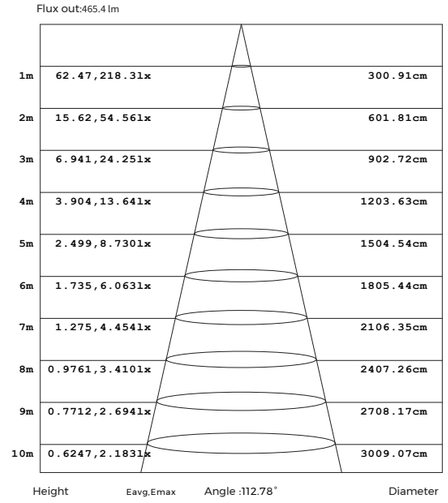
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):113.2°

Light distribution



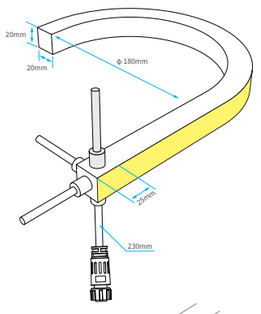
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

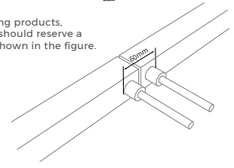
End cap

ENP

IP67

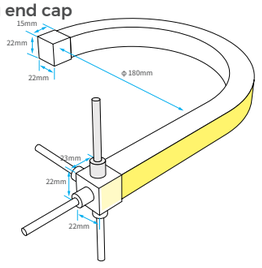


When splicing products, the profiles should reserve a spacing as shown in the figure.

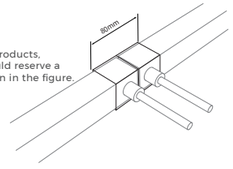


Gluing end cap

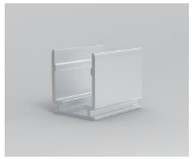
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

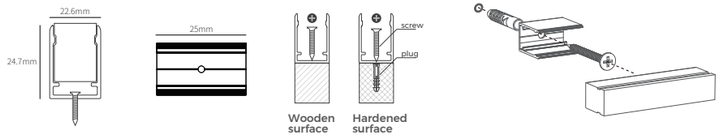


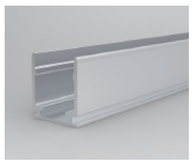
Installation accessory



Flat mounting clip

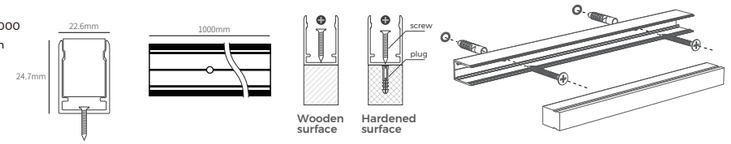
Order model: AS-GMS/T2020A-25
Dimension: 25x22.6x24.7mm
screw model: KA-M4
screw QTY: 1 PCS





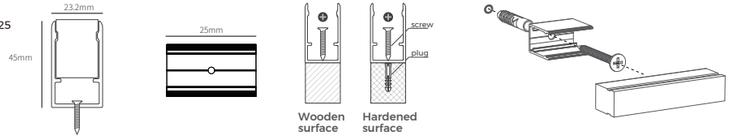
Flat mounting aluminum groove

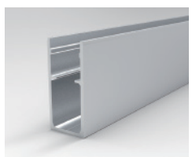
Order model: AS-GMS/T2020A-1000
Dimension: 1000x22.6x24.7mm
screw model: KA-M4
screw QTY: 2 PCS



Clip with reserved outlet position

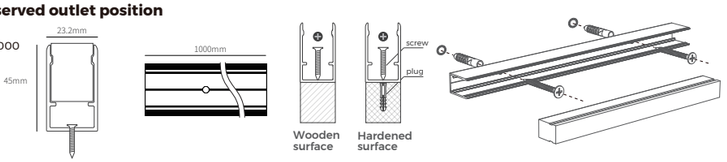
Order model: AS-GMS/T2020A1-25
Dimension: 25x23.2x45mm
screw model: KA-M4
screw QTY: 1 PCS





Aluminum groove of reserved outlet position

Order model: AS-GMS/T2020A1-1000
Dimension: 1000x23.2x45mm
screw model: KA-M4
screw QTY: 2 PCS



AC Series

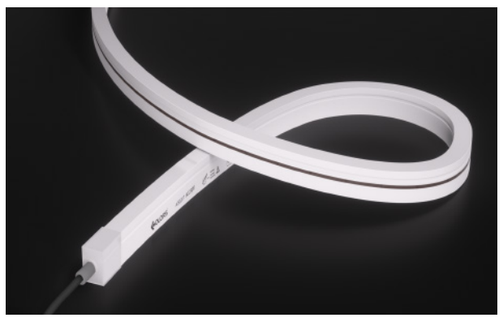
Model Recommendation

ACS1217 ACS1224 ACT1312

Core Feature Advantages

Driver-free,50m Ultra Long,Lightning Resistant

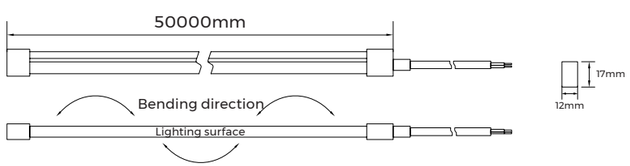
ACS1217

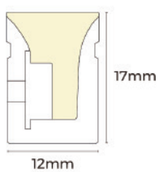


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Safety chip	Dual safety redundancy design for enhanced protection.
IP	IP65
Product applications	outdoor illumination, architectural facade lighting
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	5 years warranty
Kind reminder	Strongly recommended to equip a lightning protection module

Indoor · outdoor · IP67 · IK08 · CE · UK CA · RoHS · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT

Dimensions





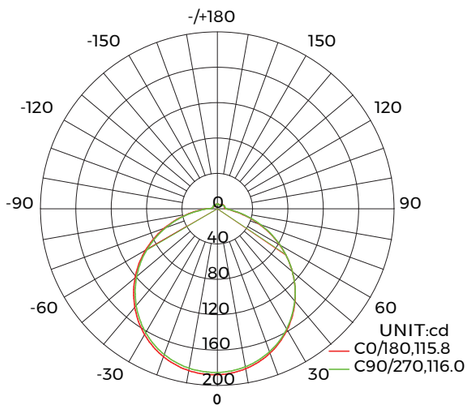
Luminaire Parameters

White light - AC230V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
ACS1217-9XX230 CSW025CCXXXX-ESD	2700K	2600-2830K	>80	230	0.044 (0.013A/ft)	10 (3.05W/ft)	12 (3.65W/ft)	450 (137LM/ft)	50000mm (164ft)	168LED/500mm
	3000K	2920-3170K						500 (152LM/ft)		
	4000K	3770-4220K						600 (183LM/ft)		
	6500K	6000-7000K						600 (183LM/ft)		

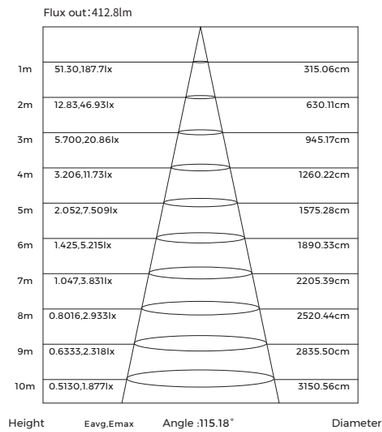
Note:
1、The above data is the testing result of 1M standard product;
2、The lumens of output data can be vary up to ±15%;
3、The above parameters are all typical values.
4、The range of operating voltage is AC220V-240V

Light Distribution



AVERAGE BEAM ANGLE(50%):115.9°

Light distribution



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

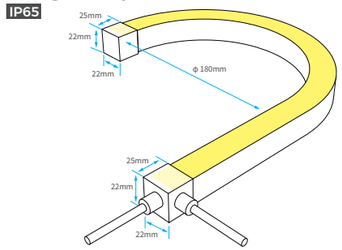
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

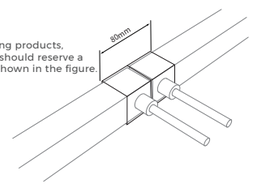
End cap

Gluing end cap

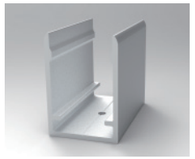
IP65



When splicing products, the profiles should reserve a spacing as shown in the figure.

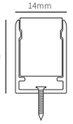


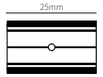
Installation accessory

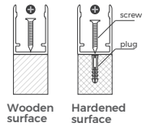


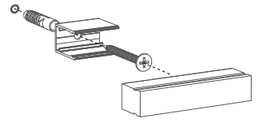
Flat mounting clip

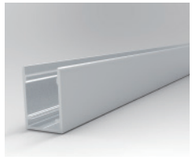
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





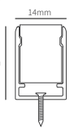


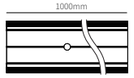


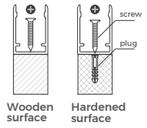


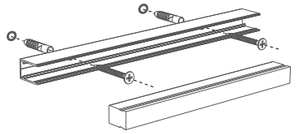
Flat mounting aluminum groove

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



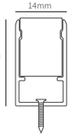


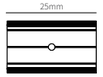


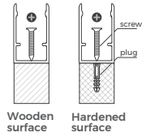


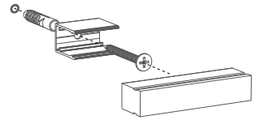
Clip with reserved outlet position

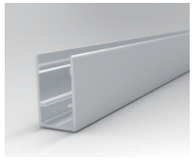
Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS





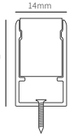


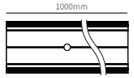


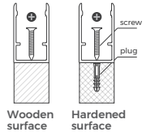


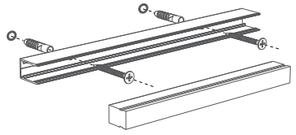
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



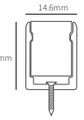


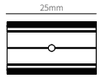


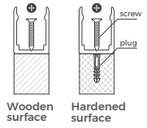


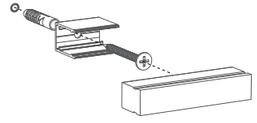
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



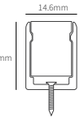


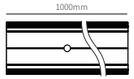


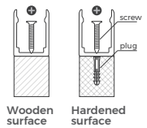


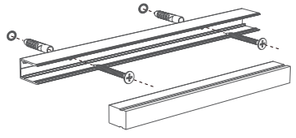
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



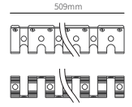


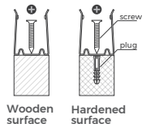


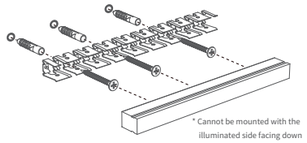


Moldable groove

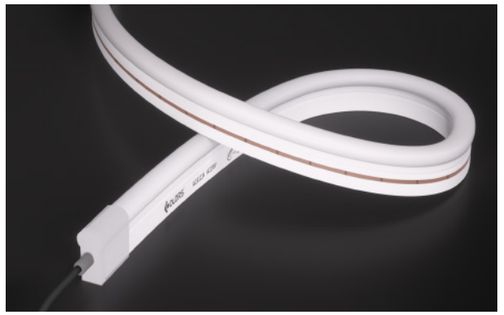
Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS







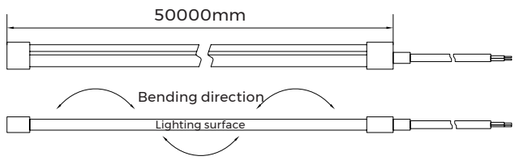
ACS1224

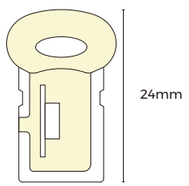


Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Safety chip	Dual safety redundancy design for enhanced protection.
IP	IP65
Product applications	outdoor illumination, architectural facade lighting
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	5 years warranty
Kind reminder	Strongly recommended to equip a lightning protection module

Indoor · outdoor · IP67 · IK08 · CE · UKCA · RoHS · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT

Dimensions





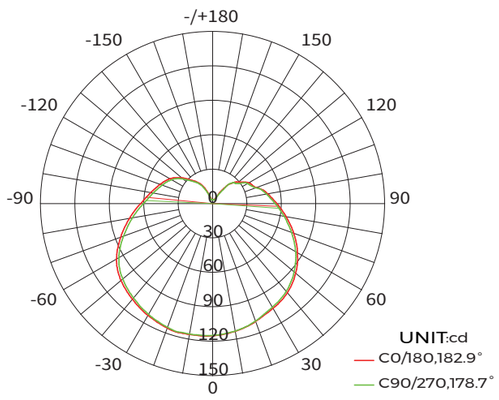
Luminaire Parameters

White light - AC230V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
ACS1224-9XX230 CSW025CCXXXX-ESD	2700K	2600-2830K	>80	230	0.044 (0.013A/ft)	10 (3.05W/ft)	12 (3.65W/ft)	500 (152LM/ft)	50000mm (164ft)	168LED/500mm
	3000K	2920-3170K						500 (152LM/ft)		
	4000K	3770-4220K						650 (198LM/ft)		
	6500K	3770-4220K						650 (198LM/ft)		

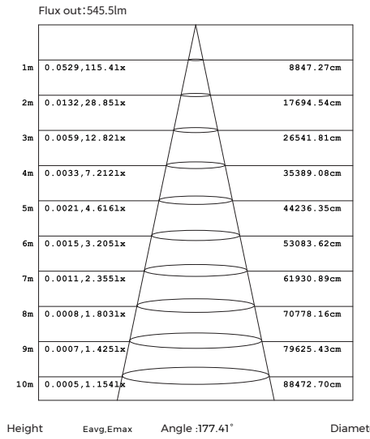
Note:
1、The above data is the testing result of 1M standard product;
2、The lumens of output data can be vary up to ±15%;
3、The above parameters are all typical values.
4、The range of operating voltage is AC220V-240V

Light Distribution



AVERAGE BEAM ANGLE(50%):180.8°

Light distribution



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

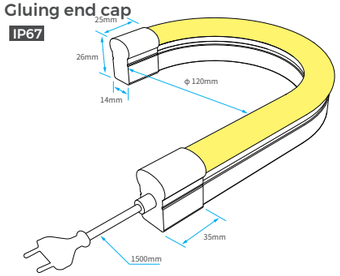
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

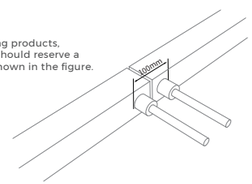
End cap

Gluing end cap

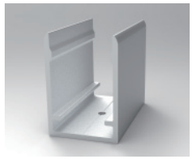
IP67



When splicing products, the profiles should reserve a spacing as shown in the figure.

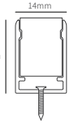


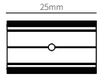
Installation accessory

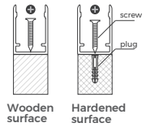


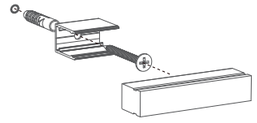
Flat mounting clip

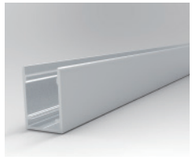
Order model: AS-NMS1217A0-0025
Dimension: 25x14x21mm
screw model: KA-M4
screw QTY: 1 PCS





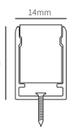


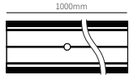


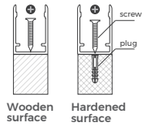


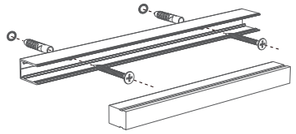
Flat mounting aluminum groove

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x21mm
screw model: KA-M4
screw QTY: 2 PCS



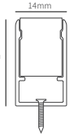


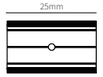


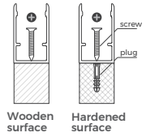


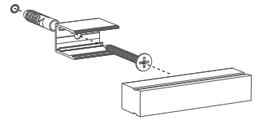
Clip with reserved outlet position

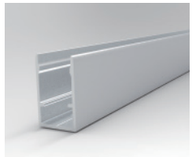
Order model: AS-NMS1217A0-0025
Dimension: 25x14x28mm
screw model: KA-M4
screw QTY: 1 PCS





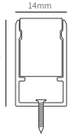


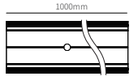


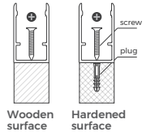


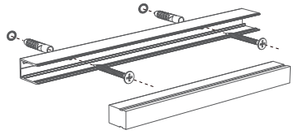
Aluminum groove of reserved outlet position

Order model: AS-NMS1217A0-1000
Dimension: 1000x14x28mm
screw model: KA-M4
screw QTY: 2 PCS



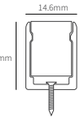


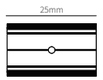


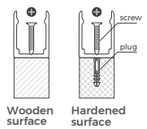


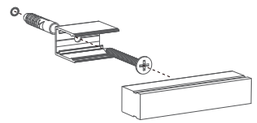
Flat mount PC clip

Order model: AS-NMS1217P-25
Dimension: 25x14.6x19.35mm
screw model: KA-M4
screw QTY: 1 PCS



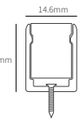


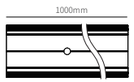


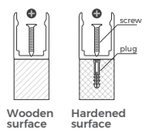


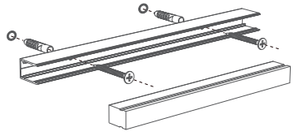
Flat mount PC slot

Order model: AS-NMS1217P-1000
Dimension: 1000x14.6x19.35mm
screw model: KA-M4
screw QTY: 2 PCS



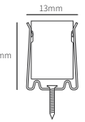


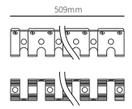


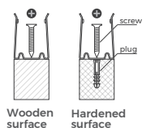


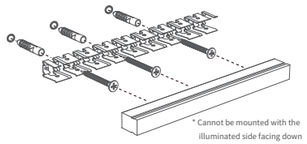
Moldable groove

Order model: AS-NMS1217M1-500
Dimension: 500xW13xH17mm
screw model: KA-M4
screw QTY: 8 PCS







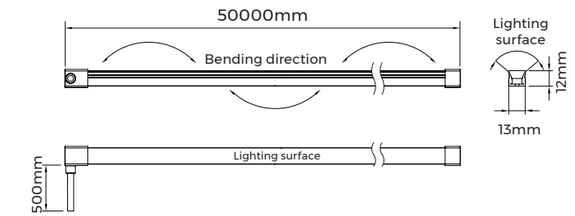


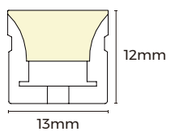
ACT1312

Light source	Adopting dedicated and outdoor-specific LED, stronger reliability for outdoor application
Structure	New anti-tension structure, Integrated anti-tension silicone extrusion process, against internal stress and external tension
Safety chip	Dual safety redundancy design for enhanced protection.
IP	IP65
Product applications	outdoor illumination, architectural facade lighting
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	5 years warranty
Kind reminder	Strongly recommended to equip a lightning protection module

Indoor · outdoor · IP67 · IK08 · CE · UKCA · RoHS · Reach · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT

Dimensions





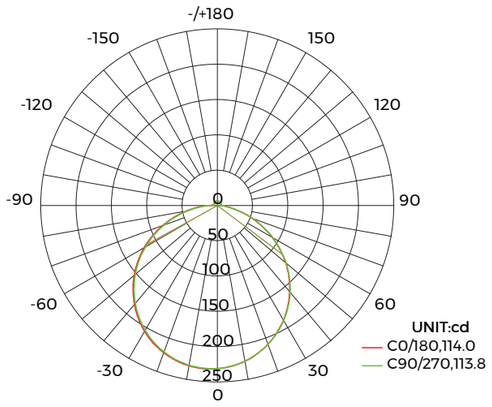
Luminaire Parameters

White light - AC230V

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
ACT1312-8XX230 CSW025CCXXXX-ESD	2700K	2600-2830K	>80	230	0.043 (0.013A/ft)	10 (3.05W/ft)	12 (3.65W/ft)	600 (183LM/ft)	50000mm (164ft)	168LED/500mm
	3000K	2920-3170K						650 (198LM/ft)		
	4000K	3770-4220K						700 (213LM/ft)		
	6500K	3770-4220K						700 (213LM/ft)		

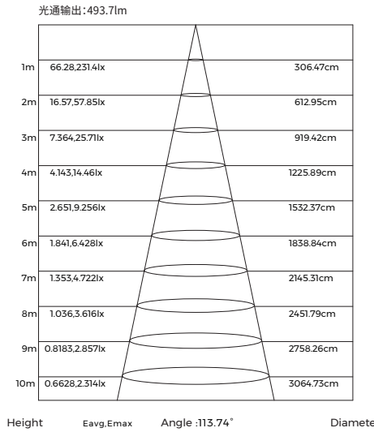
Note:
1、The above data is the testing result of 1M standard product;
2、The lumens of output data can be vary up to ±15%;
3、The above parameters are all typical values.
4、The range of operating voltage is AC220V-240V

Light Distribution



AVERAGE BEAM ANGLE(50%):113.9°

Light distribution



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

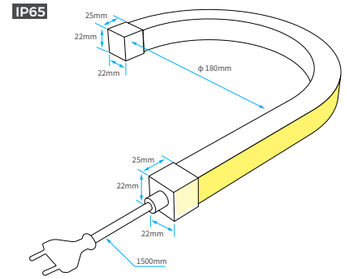
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

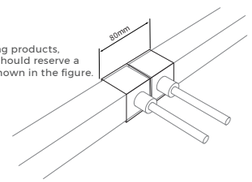
End cap

Gluing end cap

IP65



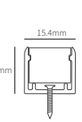
When splicing products, the profiles should reserve a spacing as shown in the figure.

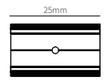


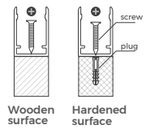
Installation accessory

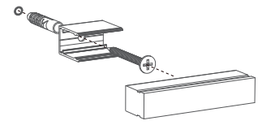
Flat mounting clip

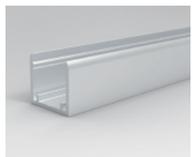
Order model: AS-NMT1312A-25
Dimension: 25x15.4x14.1mm
screw model: KA-M4
screw QTY: 1 PCS





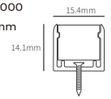


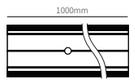


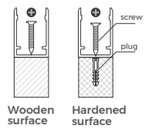


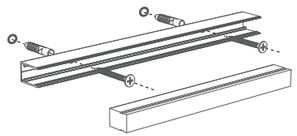
Flat mounting aluminum groove

Order model: AS-NMT1312A-1000
Dimension: 1000x15.4x14.1mm
screw model: KA-M4
screw QTY: 2 PCS



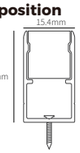


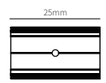


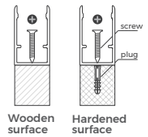


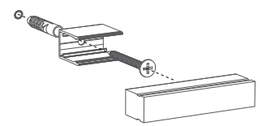
Clip with reserved outlet position

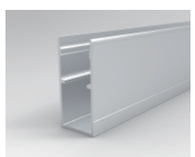
Order model: AS-NMT1312B1-25
Dimension: 25x15.4x19.8mm
screw model: KA-M4
screw QTY: 1 PCS





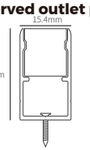


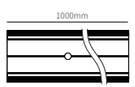


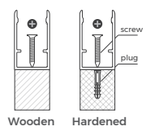


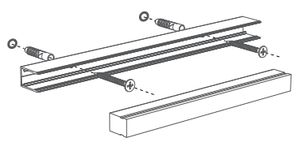
Aluminum groove of reserved outlet position

Order model: AS-NMT1312B1-1000
Dimension: 1000x15.4x19.8mm
screw model: KA-M4
screw QTY: 2 PCS



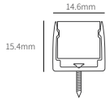


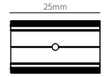


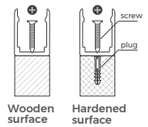


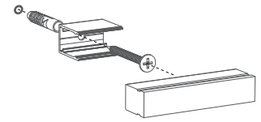
Flat mount PC clip

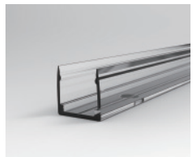
Order model: AS-NMT1312P-25
Dimension: 25x15.4x14.6mm
screw model: KA-M4
screw QTY: 1 PCS





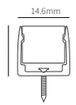


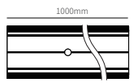


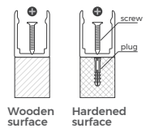


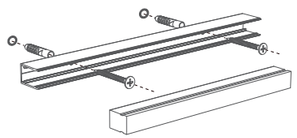
Flat mount PC slot

Order model: AS-NMT1312P-1000
Dimension: 1000x15.4x14.6mm
screw model: KA-M4
screw QTY: 2 PCS



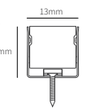


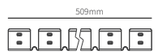


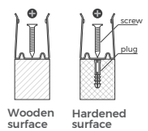


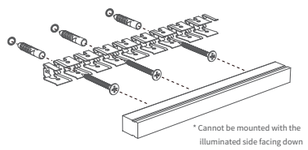
Moldable groove

Order model: AS-NMT1312M-500
Dimension: 500x13.7x13.6mm
screw model: KA-M4
screw QTY: 8 PCS









High-voltage Series

Model Recommendation

H8104

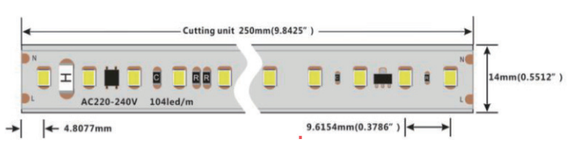
Core Feature Advantages

Driverless,50m Max

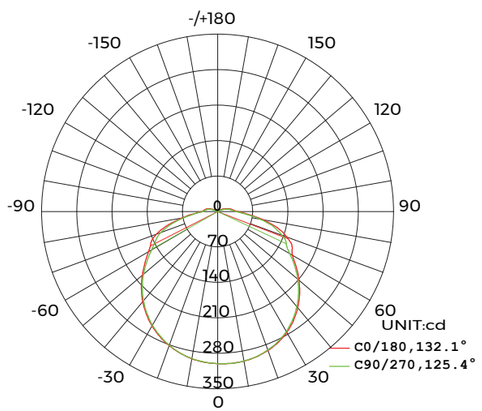
H8104

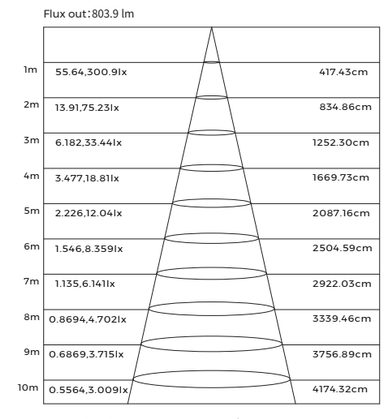
Usage features	Direct connection, no need for an additional power supply
Functional features	Constant current design ensures consistent brightness from start to end
IP	IP65
Working temperature	-25~40℃
Storage temperature	0℃~60℃
Warranty	3 years warranty

Dimensions



Light Distribution





AVERAGE BEAM ANGLE(50%):128.8°

Light distribution

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

Effective average illuminance

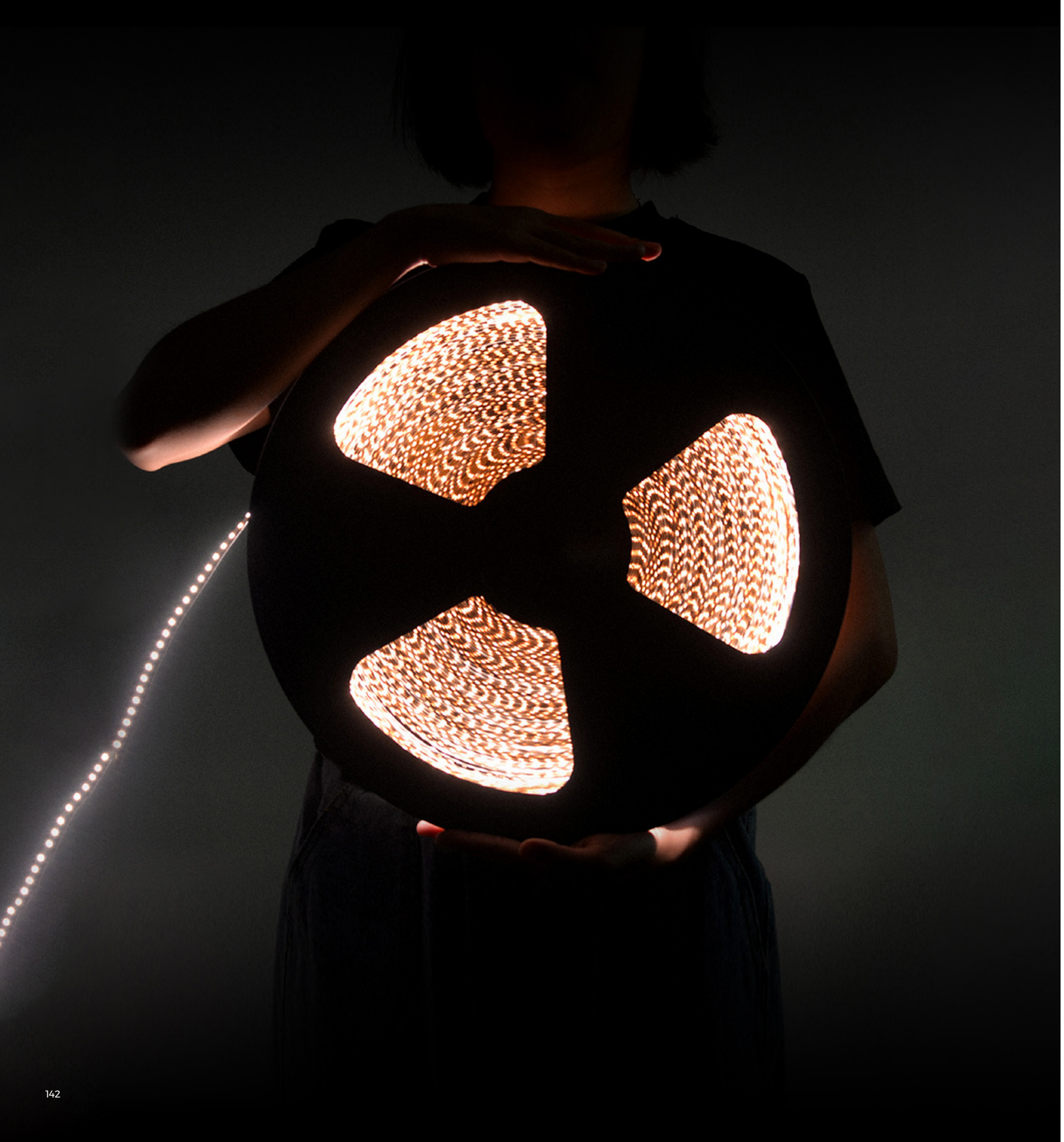
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

Luminaire Parameters

White light - Ra80

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
H810423012-8XX CSW025CCXXXX	2200K	>80	AC220V ~240V	0.046 (0.014A/ft)	10.6 (3.2W/ft)	12 (3.66W/ft)	820 (250LM/ft)	50000mm (164.04ft)	26LED/250mm
	2850K						990 (302LM/ft)		
	4000K						1060 (323LM/ft)		
	5700K						1100 (335LM/ft)		

1.The tolerance of output data can be vary up to 10%.
2.the output data tested according to IES TM-30-15.
3.the output data is based on IP20/1merter，data of 5m in only for reference.
4.IP protection process leads changes to size, CCT and luminous flux.



Ultra-long Series

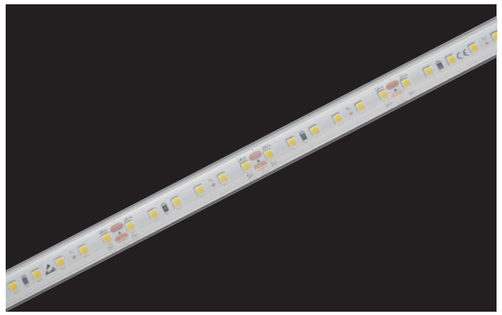
Model Recommendation

DS872(EF)

Core Feature Advantages

Max 60m Driven, Consistent Brightness

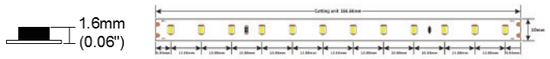
DS872(EF)



Usage features	Single-end power supply supports a maximum length of 60m, with consistent brightness from start to end
Functional features	Wide input voltage, reverse voltage protection, and over-temperature protection function
IP	IP65
Working temperature	-25-40°C
Storage temperature	0°C~60°C
Warranty	Out door 3 years, indoor 5 years warranty

E498657 UK CA CE RoHS Reach

Dimensions



Luminaire Parameters

White light - Ra80

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
DS8724810EF-8XX48 CSW025CCXXXX	2300K	>80	48	0.069 (0.021A/ft)	3.3 (1.0W/ft)	3.74 (1.14W/ft)	335 (102LM/ft)	60000mm (196.85ft)	12LED/166.66mm
	3000K						370 (113LM/ft)		
	3500K						375 (114LM/ft)		
	4000K						385 (117LM/ft)		
	6000K						370 (113LM/ft)		

White light - Ra90

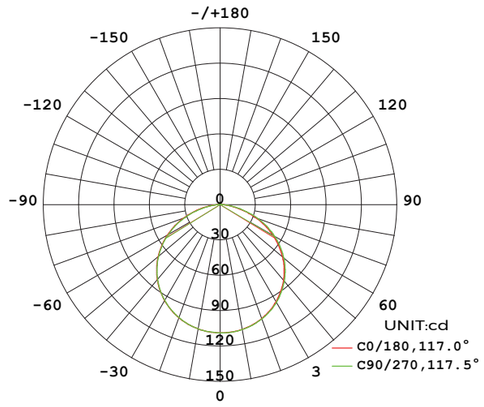
Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
DS8724810EF-9XX48 CSW025CCXXXX	2300K	>90	48	0.069 (0.021A/ft)	3.3 (1.0W/ft)	3.74 (1.14W/ft)	290 (88LM/ft)	60000mm (196.85ft)	12LED/166.66mm
	3000K						320 (98LM/ft)		
	3500K						330 (101LM/ft)		
	4000K						340 (104LM/ft)		
	6000K						320 (98LM/ft)		

White light - Ra95

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
DS8724810EF-HXX48 CSW025CCXXXX	2300K	>95	48	0.069 (0.021A/ft)	3.3 (1.0W/ft)	3.74 (1.14W/ft)	230 (70LM/ft)	60000mm (196.85ft)	12LED/166.66mm
	3000K						260 (79LM/ft)		
	3500K						260 (79LM/ft)		
	4000K						300 (91LM/ft)		

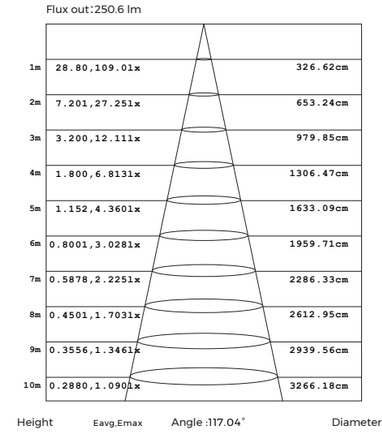
1.The tolerance of output data can be vary up to 10%.
2.the output data tested according to IES TM-30-15.
3.the output data is based on IP20/1merter，data of 5m in only for reference.
4.IP protection process leads changes to size, CCT and luminous flux.

Light Distribution



AVERAGE BEAM ANGLE(50%):117.3°

Light distribution



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

Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

CSP Dot Series

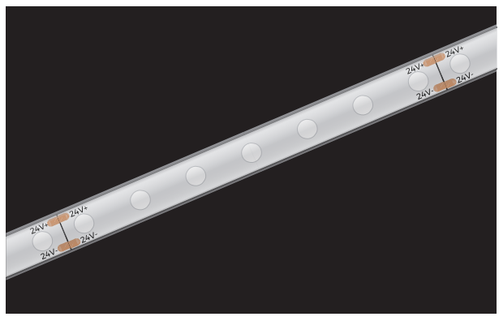
Model Recommendation

PD140 (EF)

Core Feature Advantages

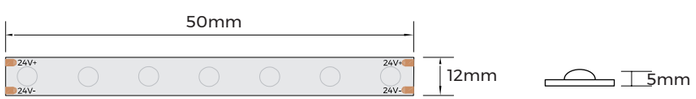
Super Durable,-40~+60°C

PD140(EF)



Usage features	Super durable, high reliable, hard to be broken
IP	IP65
Working temperature	-40~60°C
Storage temperature	0°C~60°C
Warranty	Out door 3 years, indoor 5 years warranty

Dimensions



Luminaire Parameters

White light - Ra80

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
PD1402408EF-9XX24 CSW025CCXXXX	2700K	>90	24	0.417 (0.127A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	730 (223LM/ft)	10000mm (32.81ft)	7LED/50mm
	3000K						810 (247LM/ft)		
	4000K						900 (274LM/ft)		
	6000K						900 (274LM/ft)		

Lens Series

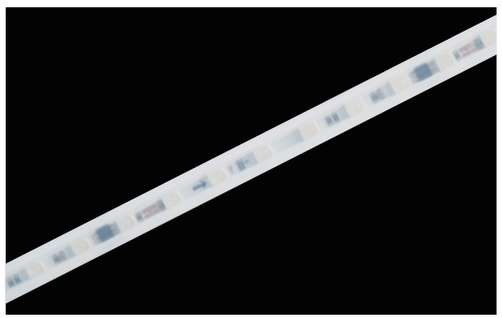
Model Recommendation

HW-WA HW-WB HW-WC ALS3646 L570 AL3D2722 ALT1312

Core Feature Advantages

60° Beam Angle, IP67 Rating, Suitable For Outdoor Use.

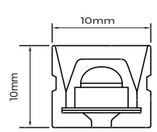
L570



Structure	Integration of lens and LED, high protection class, same size end caps
Product applications	Recommended installation with a 150-250mm distance from the wall and an illumination height of 2-3 meters, suitable for indoor and outdoor applications.
IP	IP67
Working temperature	-25~40°C
Storage temperature	0°C~60°C
Warranty	Out door 2 years, indoor 3 years warranty

E498657

Dimensions



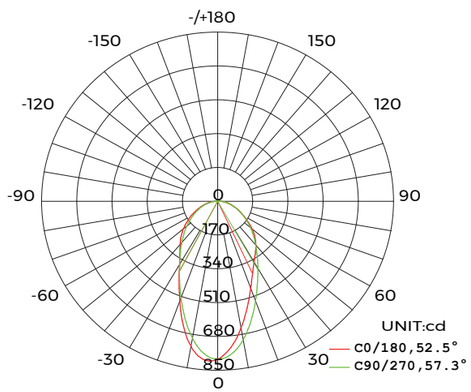
Luminaire Parameters

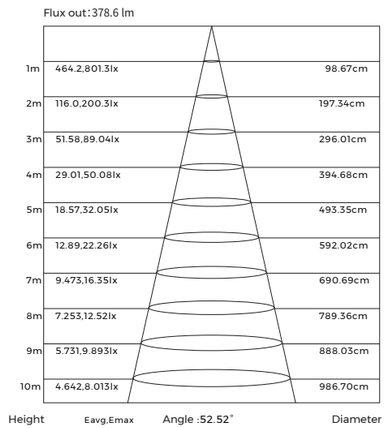
White light - Ra90

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
L57024101060-9XX CSS050CCXXXX-ENP-ESD	1900K	>90	24	0.6 (0.183A/ft)	14.4 (4.39W/ft)	15.84 (4.83W/ft)	830 (253LM/ft)	5000mm (16.4ft)	7LED/100mm
	2700K						1220 (372LM/ft)		
	3000K						1290 (393LM/ft)		
	3500K						1330 (405LM/ft)		
	4000K						1330 (405LM/ft)		
	6500K						1330 (405LM/ft)		

1.The tolerance of output data can be vary up to 10%.
2.the output data tested according to IES TM-30-15.
3.According to 1 meter test data

Light Distribution





AVERAGE BEAM ANGLE(50%):54.9°

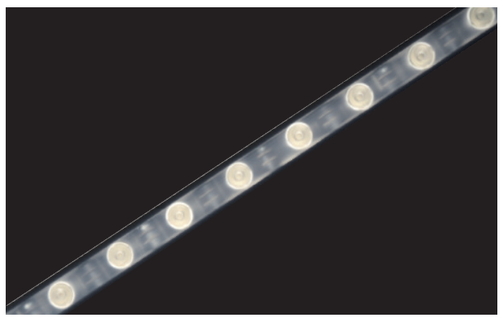
Light distribution

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

Effective average illuminance

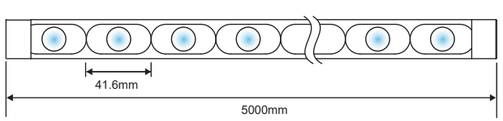
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

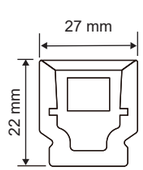
AL3D2722



Structure	Integration of lens and LED, high protection class, same size end caps
Product applications	Recommended installation with a 150-250mm distance from the wall and an illumination height of 2-3 meters, suitable for indoor and outdoor applications.
IP	IP67
Working temperature	-25~40℃
Storage temperature	0℃~60℃
Warranty	Out door 2 years, indoor 3 years warranty

Dimensions





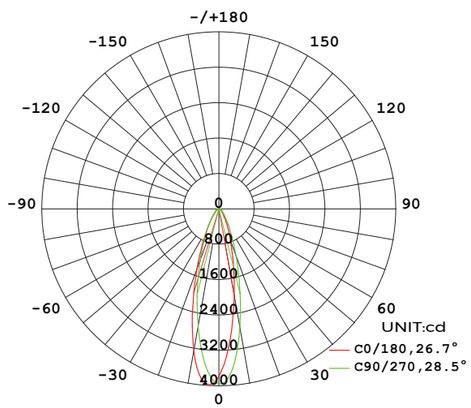
Luminaire Parameters

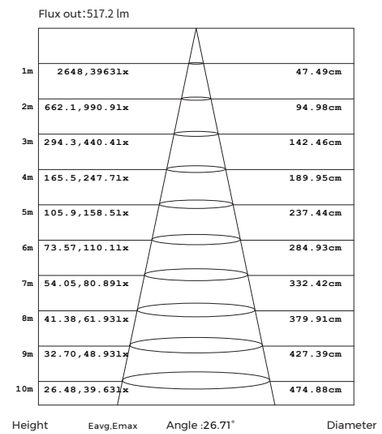
White light - Ra90

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AL3D2722-9XX CDW050CCXXXX-ENP-ESD	2700K	>90	24	1.0 (0.305A/ft)	24 (7.32W/ft)	26.4 (8.05W/ft)	1560 (476LM/ft)	5000mm (16.4ft)	/
	3000K						1680 (512LM/ft)		
	4000K						1680 (512LM/ft)		
	6000K						1680 (512LM/ft)		

1.The tolerance of output data can be vary up to 10%.
2.the output data tested according to IES TM-30-15.
3.According to 1 meter test data

Light Distribution





AVERAGE BEAM ANGLE(50%):27.6°

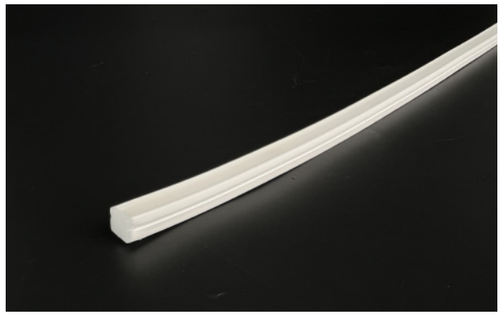
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Light distribution

Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

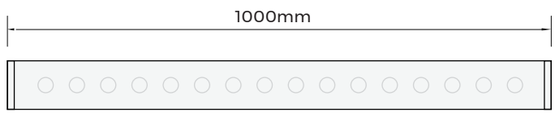
AL3D1312

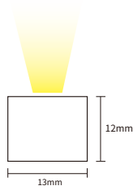


Structural features	Mini size, anti-pull structure, resistant to internal stress and external tension, anti-board-breaking
Process material	three-color silicone extrusion
IP	IP67
Product applications	Suitable for small spaces requiring wall washing such as curtain boxes, indoor and outdoor eaves, etc
Wall washing distance	2-3m
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	5 years warranty

Indoor · outdoor · IP67 · IK10 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · III

Dimensions





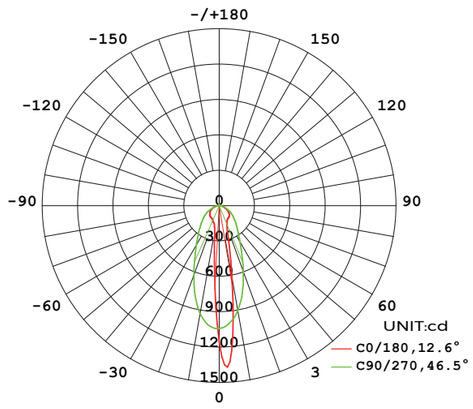
Luminaire Parameters

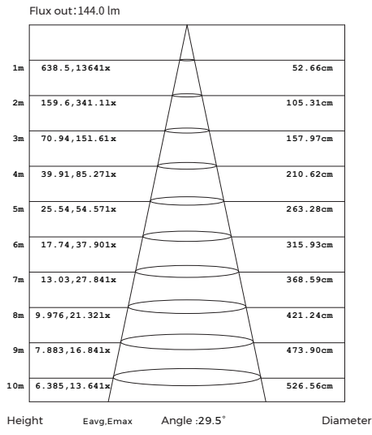
White light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
ALT1312-9XX24 CSW025CC0100-XX	2700K	>90	24	13.5 (4.1W/ft)	15.5 (4.7W/ft)	/	654 (199 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 28°
	3000K						695 (212 LM/ft)		
	4000K						770 (235 LM/ft)		

Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution





AVERAGE BEAM ANGLE(50%):29.5°

Light distribution

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

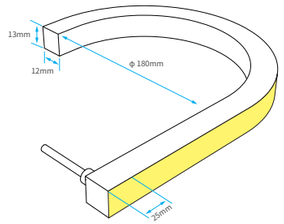
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

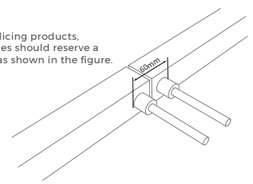
End cap

ENP:

IP67



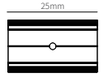
When splicing products, the profiles should reserve a spacing as shown in the figure.

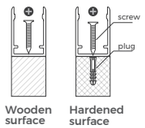


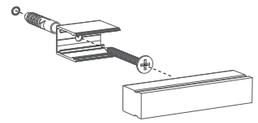
Installation accessory

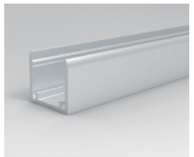
Flat mounting clip

Order model: AS-NMT1312A-25
Dimension: 25x15.4x14.1mm
screw model: KA-M4
screw QTY: 1 PCS



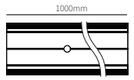


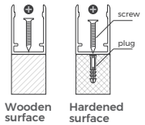


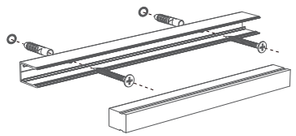


Flat mounting aluminum groove

Order model: AS-NMT1312A-1000
Dimension: 1000x15.4x14.1mm
screw model: KA-M4
screw QTY: 2 PCS

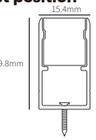


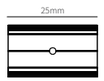


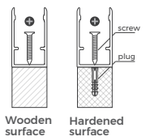


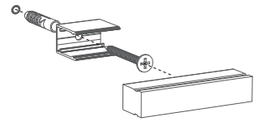
Clip with reserved outlet position

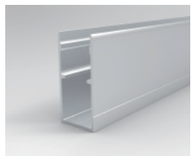
Order model: AS-NMT1312B1-25
Dimension: 25x15.4x19.8mm
screw model: KA-M4
screw QTY: 1 PCS





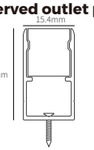


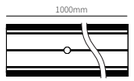


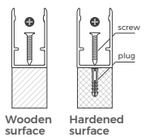


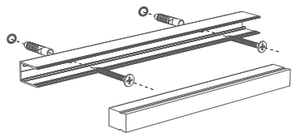
Aluminum groove of reserved outlet position

Order model: AS-NMT1312B1-1000
Dimension: 1000x15.4x19.8mm
screw model: KA-M4
screw QTY: 2 PCS



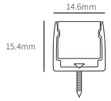


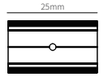


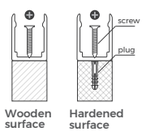


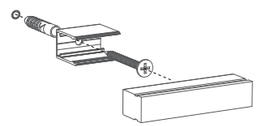
Flat mount PC clip

Order model: AS-NMT1312P-25
Dimension: 25x15.4x14.6mm
screw model: KA-M4
screw QTY: 1 PCS



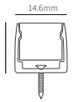


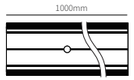


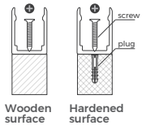


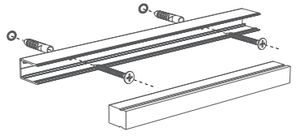
Flat mount PC slot

Order model: AS-NMT1312P-1000
Dimension: 1000x15.4x14.6mm
screw model: KA-M4
screw QTY: 2 PCS



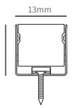


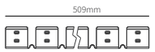


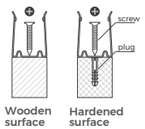


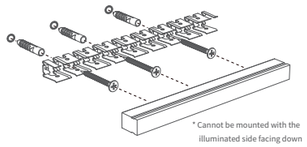
Moldable groove

Order model: AS-NMT1312M-500
Dimension: 500x13.7x13.6mm
screw model: KA-M4
screw QTY: 8 PCS









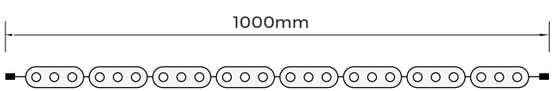
* Cannot be mounted with the illuminated side facing down

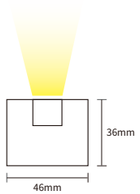
ALS3646

Structural features	Structural features: Modular hard strip wall washer, with structural waterproofing and efficient heat dissipation design to ensure long-term stability outdoors
Process material	Aluminum alloy extruded housing + professional PC optical lens
IP	IP66
Product applications	Suitable for building facades, public venues, villas and mansions, commercial landscapes, etc.
Wall washing distance	8-10m
Working temperature	-20~50℃
Storage temperature	0℃~60℃
Warranty	3 years warranty

Indoor · outdoor · IP67 · IK10 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · III

Dimensions





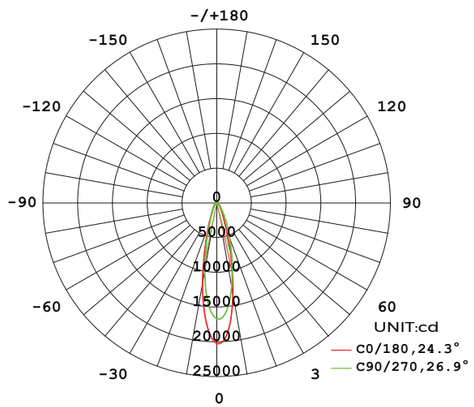
Luminaire Parameters

White light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
ALS3646-9XX24 CSW025CC0100-XX	2700K	>90	24	56 (17W/ft)	64.4 (19.5W/ft)	/	3670 (1118 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 12° 25° 40° 15x55°
	3000K						3890 (1186 LM/ft)		
	4000K						4320 (1316 LM/ft)		

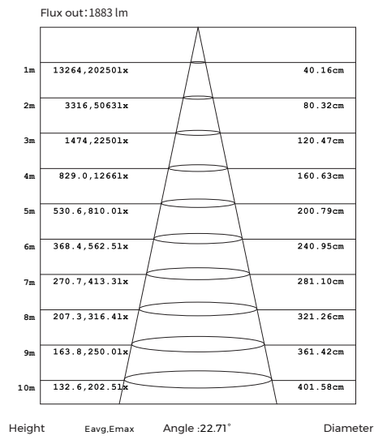
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

Light Distribution



AVERAGE BEAM ANGLE(50%):25.6°

Light distribution



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

Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

HW-WA

Structural features	The hard strip wall washer ensures long-term outdoor stability through structural waterproofing and efficient heat dissipation design
Process material	Aluminum alloy extruded housing + professional PC lens
IP	IP67
Product applications	Suitable for building facades, public venues, villas and mansions, commercial landscapes, etc
Working temperature	-20~50°C
Storage temperature	0°C~60°C
Warranty	3 years warranty

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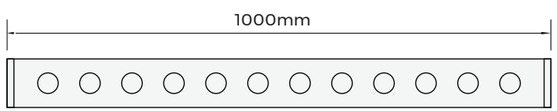
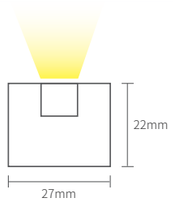
Dimensions





Luminaire Parameters

White light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWA12X242219 60-9CW015C0100	2700K	>90	24	12 (3.05W/ft)	13.8 (4.21W/ft)	/	1025 (312 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120°
	3000K						1025 (312 LM/ft)		
	4000K						1080 (329 LM/ft)		
	6000K						1160 (353 LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWA12X242219 60-9CW015C0100	2700K	>90	24	12 (3.05W/ft)	13.8 (4.21W/ft)	8	1000 (304 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120°
	3000K						1000 (304 LM/ft)		
	4000K						1020 (311 LM/ft)		
	6000K						1080 (329 LM/ft)		

Color light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWA12X242219 60-9CW015C0100	2700K	>90	24	12 (3.05W/ft)	13.8 (4.21W/ft)	8	1025 (312 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120°
	3000K						1025 (312 LM/ft)		
	4000K						1080 (329 LM/ft)		
	6000K						1160 (353 LM/ft)		

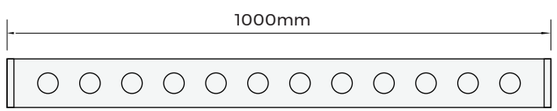
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

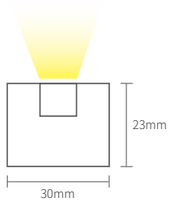
HW-WB

Structural features	The hard strip wall washer ensures long-term outdoor stability through structural waterproofing and efficient heat dissipation design
Process material	Aluminum alloy extruded housing + professional PC lens
IP	IP67
Product applications	Suitable for building facades, public venues, villas and mansions, commercial landscapes, etc
Working temperature	-20~50°C
Storage temperature	0°C~60°C
Warranty	3 years warranty

Indoor · outdoor · IP67 · IK10 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · III

Dimensions





Luminaire Parameters

White light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWB24X243023 30-9NWCW015C0100	2700K 3000K 4000K 6000K	>90	24	24 (6.1W/ft)	27.6 (8.41W/ft)	/	1512 (460 LM/ft) 1518 (462 LM/ft) 1680 (512 LM/ft) 1872 (570 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°

DMX512 White neon light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWA12X242219 60-9CW015C0100	2700K 3000K 4000K 6000K	>90	24	24 (6.1W/ft)	27.6 (8.41W/ft)	4	1360 (414 LM/ft) 1400 (426 LM/ft) 1500 (457 LM/ft) 1600 (487 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°

Color light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWA12X242219 60-9CW015C0100	2700K 3000K 4000K 6000K	>90	24	24 (6.1W/ft)	27.6 (8.41W/ft)	4	1392 (424 LM/ft) 1440 (438 LM/ft) 1560 (475 LM/ft) 1680 (512 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°

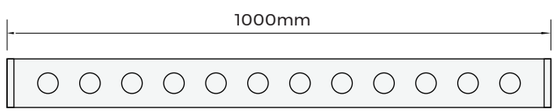
Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

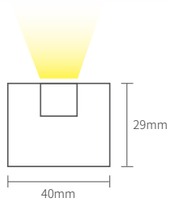
HW-WC

Structural features	The hard strip wall washer ensures long-term outdoor stability through structural waterproofing and efficient heat dissipation design
Process material	Aluminum alloy extruded housing + professional PC lens
IP	IP67
Product applications	Suitable for building facades, public venues, villas and mansions, commercial landscapes, etc
Working temperature	-20~50°C
Storage temperature	0°C~60°C
Warranty	3 years warranty

Indoor · outdoor · IP67 · IK10 · FLAME RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · UV RESISTANT · III

Dimensions





Luminaire Parameters

White light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWC36X244029 60-9NWCW015C0100	2700 K	>90	24	36 (10.9W/ft)	41.4 (12.5W/ft)	/	3240 (987 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°
	3000K						3465 (1056 LM/ft)		
	4000K						3492 (1064 LM/ft)		
	6000K						3564 (1086 LM/ft)		

DMX512 White neon light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWC36X244029 60-9NWCW015C0100	2700 K	>90	24	36 (10.9W/ft)	41.4 (12.5W/ft)	4	3150 (960 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°
	3000K						3240 (987 LM/ft)		
	4000K						3320 (1011 LM/ft)		
	6000K						3420 (1042 LM/ft)		

Color light - 24V

Model	CCT/colors	CRI	Input voltage (V)	Rated power (w/m)	Maximum power (w/m)	Pixel count (Pixels/m)	Lumens (LM/m)	Standard Length	Remark
HWWC36X244029 60-9NWCW015C0100	2700 K	>90	24	36 (10.9W/ft)	41.4 (12.5W/ft)	4	3204 (976 LM/ft)	1000mm (3.28ft)	Adjustable Beam Angle 30° 60° 120° 10x60° 20x45°
	3000K						3348 (1020 LM/ft)		
	4000K						3420 (1042 LM/ft)		
	6000K						3528 (1075 LM/ft)		

Note: 1. The above parameters are tested based on 1m standard products;
2. The luminous flux is allowed to have an error range of -15%~+15%;
3. The above parameters are typical values.

03

TECHNICAL SUPPORT & SERVICES

Architectural façade lighting involves a systematic design of artificial light on building exteriors to reshape their nighttime appearance. The implementation process is long and complex, involving many stakeholders. Issues in early design, product selection, mid-stage construction, or later maintenance can prevent achieving or sustaining the ideal lighting effect.

To ensure the realization and delivery of the desired final lighting effect, COLORS Lighting not only provides high-quality products with rapid delivery but also offers comprehensive technical support and supplementary services throughout the entire project process. These include product selection based on lighting design requirements, customized differentiated solutions, drawing refinement support, and sample testing based on project progress, technical briefings, installation guidance, and commissioning assistance during the construction phase, as well as fault diagnosis and repair assistance during after-sales service.

FULL-PROCESS PROJECT SERVICES

1 Design Definition

- Requirement Analysis
- Technical Evaluation

2 Product Selection

- Control System Recommendation & Customized Solutions
- Provision of Product Specification Drawings

3 Project Drafting

- Lighting Fixture Schedule Provided by Designer

4 Project Drawings

- Assist designers in outputting lighting diagrams
- Control System Topology Diagram Output

5 Bidding Support

6 Template Testing

- Fast Delivery
- Visual Effect Debugging

7 Product Supply

- Material Supply Chain Management
- Product Quality Control & Inspection
- Segment-wise Packaging & Labeling for Project Phases

8 Installation Guidance

- Installation Training
- Wiring & Connection Guidance at Site

9 On-site Technical Support

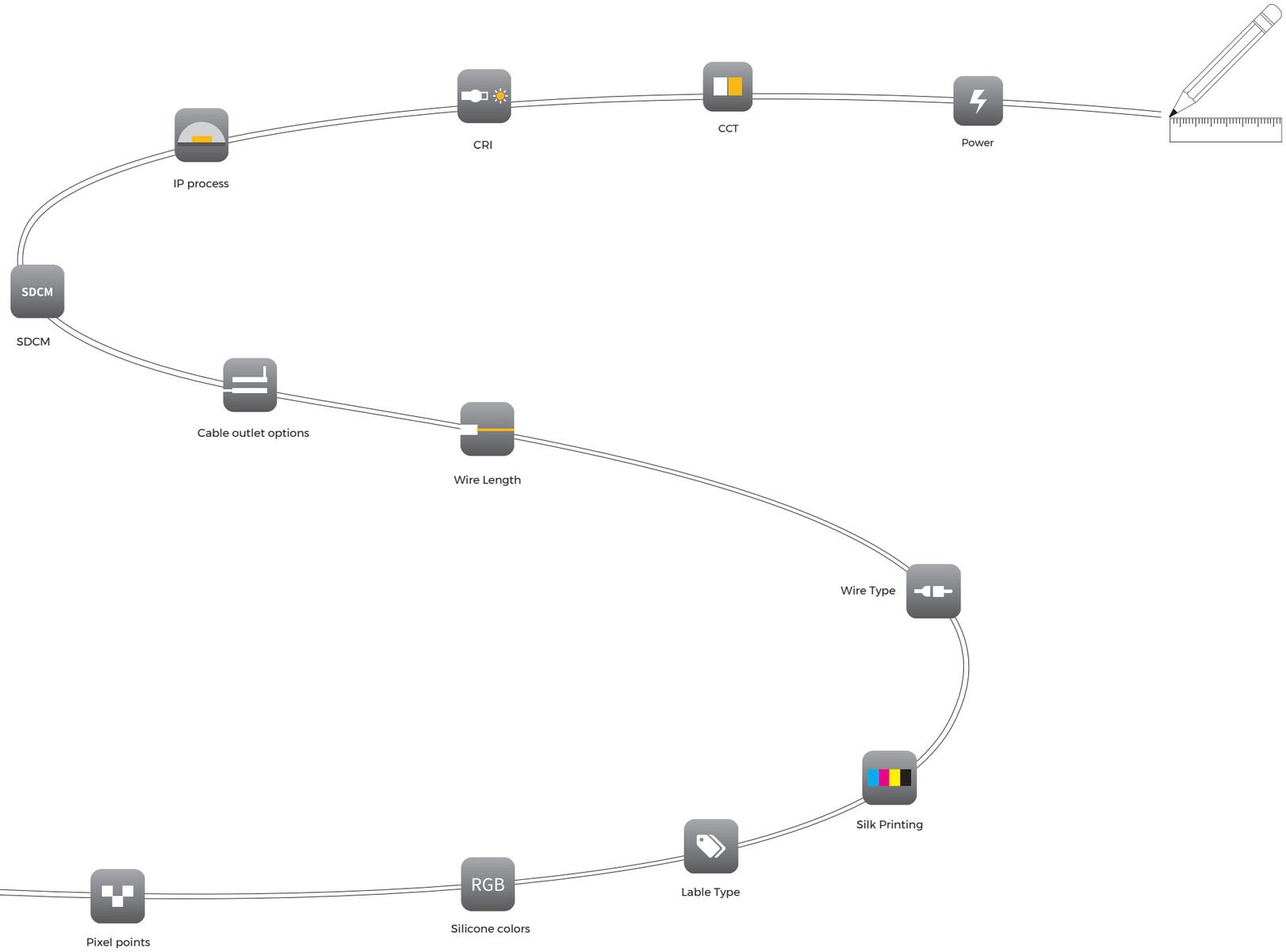
- Technical Assistance & Project Debugging
- Debugging Equipment Support

10 After-Sales Service

- Project Debugging Maintenance & Troubleshooting

DESIGN DEFINITION

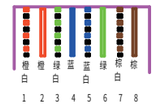
Providing differentiated solutions to meet design requirements.



PROJECT DRAWINGS

Remarks:

Between the computer and the switch, between the switch and the main controller, and between the main controller and the sub-controllers, the standard TCP/IP network protocol is adopted, using high-quality Cat 5e straight-through network cables for cascading. The connection length between controller devices should not exceed 100m; for distances over 100m, add a switch or use optical fiber for long-distance transmission. RJ45 connectors should be wired using the 568B standard. The offline main controller can connect up to 60 sub-controllers / 160,000 pixel points (for optimal signal transmission, approximately 120,000 pixel points is recommended). Maximum pixel output per controller port: 512 (DMX512 IC) / 768 (serial IC or breakpoint-resume IC). Controller port output- DMX512 fixture signal, cable length from port to fixture end should not exceed 100m. Controller port output - TTL fixture signal, cable length from port to fixture head should not exceed 20m.



RJ45 connector wiring method

PRODUCT SUPPLY

Material Supply Management

Strictly select high-quality suppliers to ensure that the lighting fixtures, cables, and other products used comply with national standards and industry specifications, and have excellent performance and reliability. Conduct strict quality inspections on all procured products to prevent substandard products from entering the project site.

Product Quality Control and Inspection

Appoint dedicated quality supervisors to carry out strict inspections at every stage of the production process, rigorously controlling manufacturing procedures to ensure that all factory-delivered lighting products meet the required quality standards

Project Section Packaging and Labeling

Package products according to the project section and floor level to facilitate on-site installation.

INSTALLATION GUIDANCE

Installation Guidance and Training

Provide training to construction personnel on installation precautions and technical guidance through online or offline channels. Demonstrate in detail the installation steps and methods for lighting fixtures, including drilling, fixing brackets, and assembly, disassembly precautions, to avoid product damage caused by rough handling. Teach installation techniques to ensure fixtures are securely mounted and capable of withstanding various weather conditions.

On-Site Wiring & Connection

Explain how to plan wiring routes based on fixture layout and power requirements. Choose suitable cable specifications and models to ensure safety and stability. Introduce wiring standards and requirements, such as conduit installation and cable tray fixing, to avoid cable crossing, tangling, and signal interference. Demonstrate correct wiring connection methods such as using terminals, soldering, and insulation wrapping, emphasizing waterproof treatment of connection points to prevent leakage and short circuits.

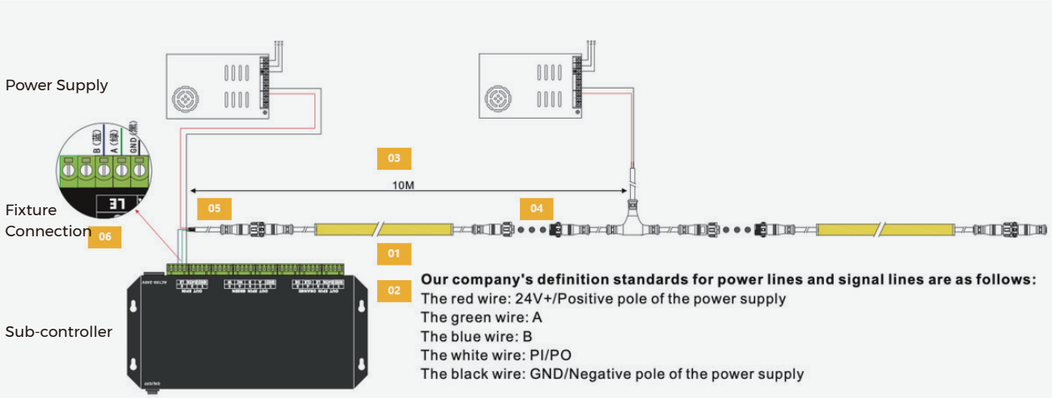
ON-SITE SUPPORT

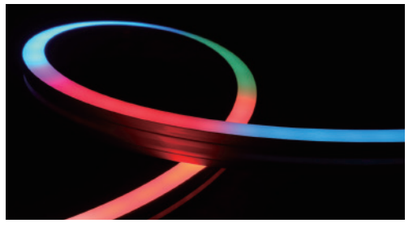
For key engineering projects, collaborate with designers and contractors to refine pre-sales product application solutions, providing documentation for product selection, wiring diagrams, circuit control layouts, and installation nodes. Assist with technical briefings before installation, provide on-site technical support during installation, and cooperate with effective commissioning and fault troubleshooting to ensure smooth project delivery and provide prompt, reliable after-sales support.

KNOWLEDGE Q&A

Dynamic Façade Lighting – Technical Highlights on DMX512 RGB Neon Strip Applications

Wiring Schematic Diagram for a Single Standalone Offline Device





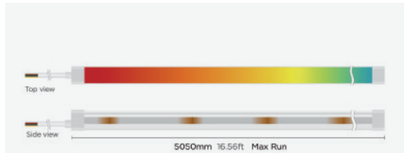
1. DMX512 RGB Neon Strips – Pixel Definition and Segmentation

Definition of Pixel:
A pixel is the smallest independently controllable light-emitting unit on an LED fixture.
Full-color fixtures: Each pixel point is composed of R/G/B (3 channels) or R/G/B/W (4 channels).
Monochrome fixtures: Each pixel point consists of 1 channel or multiple channels of the same color.
The relationship between pixel, point, and segment:
Pixel, point, and segment are commonly interchangeable terms depending on the fixture type.
Point Light Source: A point light source has only one pixel as its color rendering unit, hence the term "point."Linear Light: Each fixture consists of multiple segments, with one segment being the smallest color rendering unit, hence the term "segment."
The significance of pixel display units:
As display units, the more pixels there are, the finer the display resolution:
≥4 segments/meter: enables flowing light effects.
≥8 segments/meter: allows video display effects.
The larger the display unit and unit spacing, the farther the optimal viewing distance.

2. DMX512 RGB Neon Strips – Control IC Models and System Compatibility

The USITT DMX512-1990 is an international standard protocol, compatible with all compliant fixtures. Most ICs on the market support both the DMX512-1990 and its extended versions.

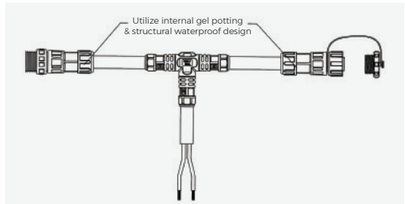
Main Differences – Addressing Protocols:
Different chip manufacturers and models may have variations in the specific implementation of the address writing protocol.



3. DMX512 RGB Neon Strips – Cascading Length and Power Supply Considerations

In project applications, the cascading length of RGB neon strips primarily depends on two factors:
Voltage Drop: Excessive length causes brightness inconsistency due to voltage loss.
Controller Output Capacity: Limited by how many pixels a port can control.

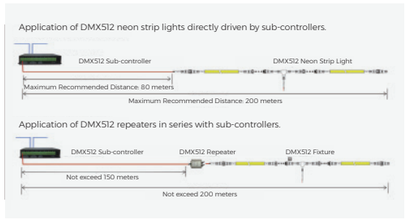
If the controller port's load capacity length exceeds the supply voltage drop limit length, the cascading length should be based on the supply voltage drop limit load capacity length. Conversely, if the port's load capacity length does not meet the requirement, it should be adjusted accordingly.



4. DMX512 RGB Neon Strip – Direct Connection, T-Connectors, and Waterproofing

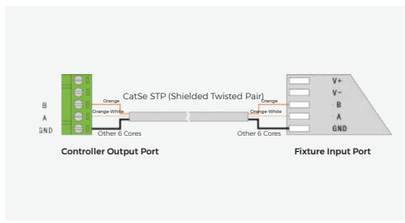
Our waterproof male/female connectors utilize dual protection, internal gel potting, and structural waterproof design, and this ensures they meet the IP67 waterproofing standard.

This design demonstrates outstanding reliability and stability in outdoor engineering projects, effectively resisting rainwater, moisture, and dust intrusion, offering long-term stability in complex outdoor environments.



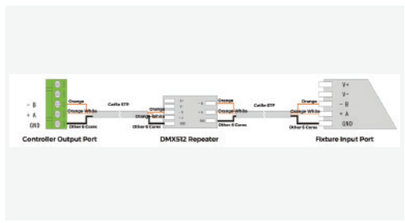
5. Distance Between Sub-controllers and Fixtures & RP Repeater Application

DMX512 Protocol:
The maximum recommended distance between the controller and the first pixel of the fixture is 80 meters.
If the distance exceeds this limit, signal attenuation may occur, and a repeater can be used to amplify the signal. The maximum recommended cable length should not exceed 150 meters. The total distance from the first to the last control unit in the DMX signal chain should not exceed 200 meters.



6.1 DMX512 System – Signal Wiring Guidelines

1. For long-distance connections between the controller and fixture, use RS485 cable or Cat5e shielded twisted pair (STP). The optimal wiring configuration is as follows: Orange—B; Orange-White—A; all other wires should be connected to GND (ground).
2. Place a 120Ω termination resistor between A and B at the end of each signal line.
3.Never use two twisted wires simultaneously for signal connections, such as connecting both orange and orange-white wires to either A or B.



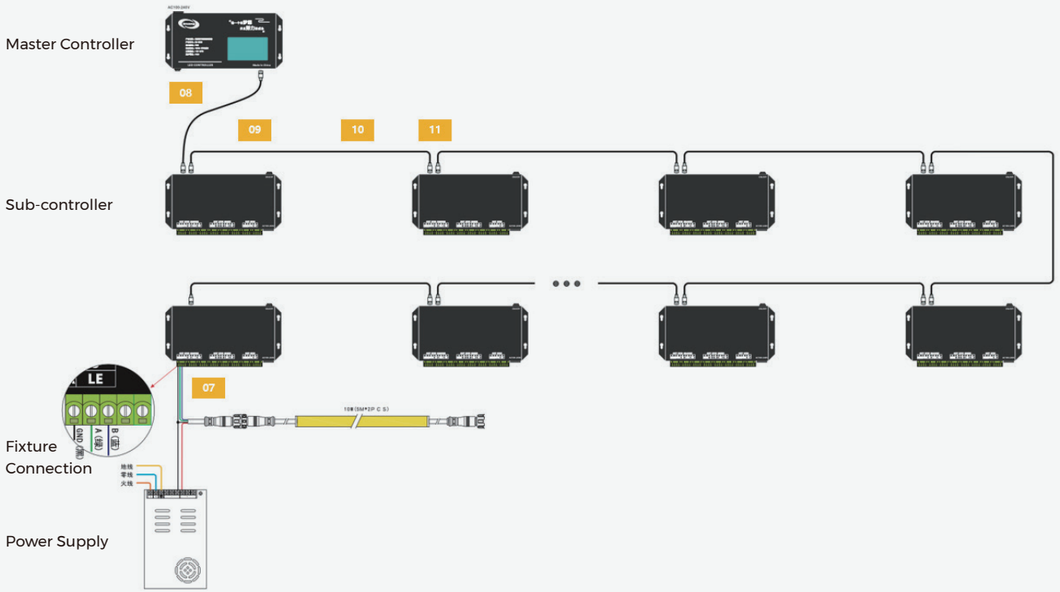
6.2 DMX512 Signal Repeater – Wiring Guidelines

1. For long-distance connections between the controller and fixture, add a DMX repeater before the first pixel, use RS485 cable or Cat5e shielded twisted pair (STP). The optimal wiring configuration is as follows: Orange—B; Orange-White—A; all other wires should be connected to GND (ground).
2. Place a 120Ω termination resistor between A and B at the end of each signal line.
3. Never use two twisted wires simultaneously for signal connections, such as connecting both orange and orange-white wires to either A or B.

KNOWLEDGE Q&A

Dynamic Façade Lighting – Technical Highlights on DMX512 RGB Neon Strip Applications

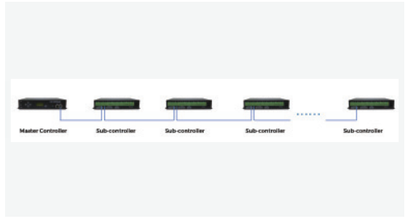
Integrated Connection and Disconnection Control Architecture

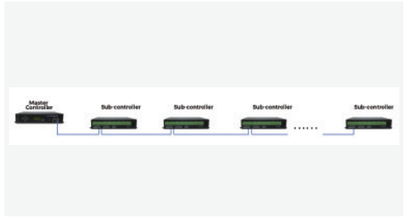


7. How Many Pixels Can One Offline Sub-Controller Handle?

Standard DMX512-1990 Protocol
Dynamic white light: Each port can support a maximum of 512 pixels, so an 8-port sub-controller can support 512 × 8 = 4,096 pixels.
RGB Color: Each port can support a maximum of 512 ÷ 3 ≈ 170 pixels, so an 8-port sub-controller can control 170 × 8 = 1,360 pixels.
RGBW Color: Each port can support a maximum of 512 ÷ 4 = 128 pixels, so an 8-port sub-controller can control 128 × 8 = 1,024 pixels.

Extended DMX512 Protocol:
Dynamic white light: Each port has a maximum load capacity of 1536 pixels. To ensure smooth video performance, it is recommended not to exceed 900 pixels per port. Therefore, an 8-port controller is recommended to load 900 × 8 = 7200 pixels.
RGB Color: Each port has a maximum load capacity of 1536 ÷ 3 = 512 pixels. To ensure smooth video performance, it is recommended not to exceed 300 pixels per port. Therefore, an 8-port controller is recommended to load 300 × 8 = 2400 pixels.
RGBW Color: The maximum load per port is 1536 ÷ 4 = 384 pixels. To ensure smooth video performance, it is recommended that the load does not exceed 225 pixels. Therefore, an 8-port controller is recommended to have a load of 225 × 8 = 1800 pixels.



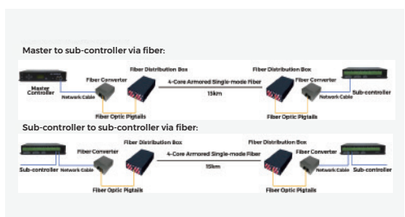


8. How Many Sub-Controllers Can One Master Controller Manage?

Factors affecting the load capacity of a master controller (offline master controller):
The load capacity of a master controller is not determined by the number of sub-controllers it supports, but by the number of pixels it supports.
Number of pixels supported by the master controller (offline master controller):
Generally, master controllers on the market support around 120,000 pixels. For example, the MR-BF12B supports 150,000 pixels.
Calculation Formula:
No. of Sub-Controllers = Master Pixel Capacity ÷ (Pixels per Port × No. of Ports per Sub-Controller)
Examples:
Standard DMX512-1990: 150,000 ÷ (170 × 8) ≈ 111 units
Extended DMX512: 150,000 ÷ (512 × 8) ≈ 37 units
Empirical value for the number of sub-controllers that can be daisy-chained to a master controller
Generally, the number of sub-controllers that can be daisy-chained to a master controller should not exceed 30 units.
What if there are more than 30 sub-controllers?
A network switch can be added between the master controller and sub-controllers. Each group of 30 sub-controllers can be daisy-chained into one group, and multiple groups of sub-controllers can be divided via the switch.

9. What Cables Are Used Between Controllers? What Is The Cable Length?

Communication data between controller devices:
Communication data is transmitted between controller devices (including master controllers and slave controllers) using the standard UDP network protocol.
Wiring and Connectors:
Cables are typically Category 5e twisted-pair cables, and interfaces use standard RJ-45 network connectors (commonly known as "crystal heads").
Cable Length Limitations:
Max distance per Cat5e cable should not exceed 100 meters.
RJ-45 Wiring Standards:
Generally divided into 568A and 568B. Straight-through cables have both ends configured as 568B, while crossover cables have one end as 568A and the other as 568B.
Generally, crossover cables have better interference resistance than straight-through cables.



10. What If the Network Cable Between Control Devices Exceeds 100 Meters?

Solution: Optical Fiber Transmission
Since the system uses standard network protocols, fiber optic networks can be directly integrated.

Fiber Types:
Single-mode: transmission distance of up to 15 km
Multi-mode: transmission distance of up to 550 meters

11. Network Cable Selection & Wiring Notes

a. Use Cat5e or higher-grade network cables for signal transmission.
b. Regarding network cable (Category 5e twisted pair) wiring sequences.
Network cable connectors use the 568A or 568B wiring sequences:
568A: Green-white, green, orange-white, blue, blue-white, orange, brown-white, brown
568B: Orange-white, orange, green-white, blue, blue-white, green, brown-white, brown
c. For standard protocols, the transmission distance between controllers does not exceed 100 meters.
d. Computers to the controllers: Use the 568B straight-through pinout. Controllers can use either a straight-through cable or a crossover cable (one end 568B, the other end 568A). If the distance between controllers is significant, it is recommended to use a crossover pinout.

KNOWLEDGE Q&A

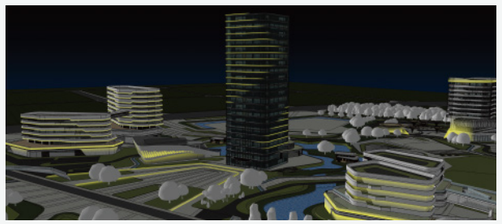
Scan the code to learn more about the knowledge Q&A

Outdoor Lighting Needs And Trends

Outdoor lighting is a crucial application area that differs from indoor lighting. It serves many scenarios with different lighting requirements. This article gives an overview of outdoor lighting industry trends, including the application domains and customer needs. It also introduces reliable linear outdoor lighting products.

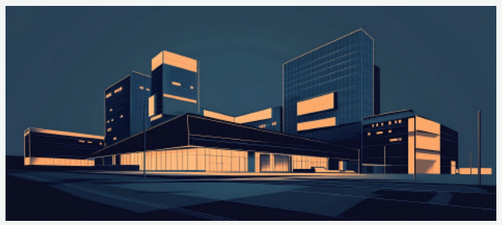
Common Issues, Causes, and Optimization Strategies in Architectural Façade Lighting Projects

Architectural facade lighting is designed to transform a building's nighttime appearance through artistic expression. It uses artificial light sources and systematic lighting design to emphasize the building's structural features, texture, and cultural connotations, while achieving harmonious integration into the urban environment. In actual engineering projects, however, problems can arise at various stages, including lighting design, product choice...



What Are The Main Lighting Methods And Products Used In Architectural Facade Lighting?

Architectural facade lighting is a crucial component of outdoor lighting applications. This article provides a comprehensive overview of the definition, lighting way, and products of architectural facade lighting to assist clients in selecting appropriate lighting methods and products for practical projects.

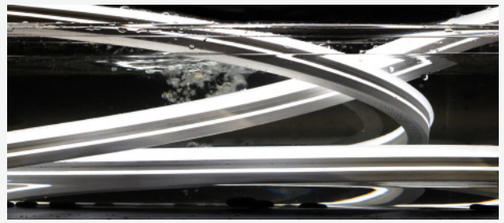


Building Facade Lighting: Techniques & LED Solutions

Building facade lighting is a technical approach involving systematic lighting design for the external surfaces of buildings using artificial light sources. Its primary objectives are to reshape a building's nighttime image through artistic expressions of light, highlight its morphological features, material textures, and cultural connotations, while achieving harmonious coexistence with the urban environment.

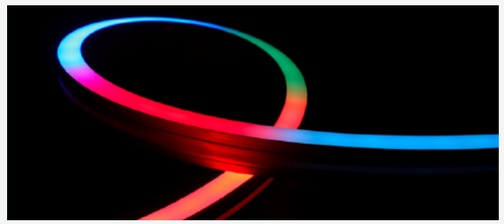
In-Depth Analysis of Outdoor Silicone Neon Flex Application Pain Points & ARCH NEON Series Solutions

In building facade lighting projects, commonly used products such as LED strip lights, silicone neon flex, linear wall washers, and DMX-controlled dynamic chase fixtures, to create stunning visual effects. However, they often have significant problems during the actual application, which can compromise project cost, quality and service life.
The four main areas of concern are: 1. Weather Resistance Issues; 2. Long-term reliability concerns; 3. Optical performance defects; 4. Control system failures...



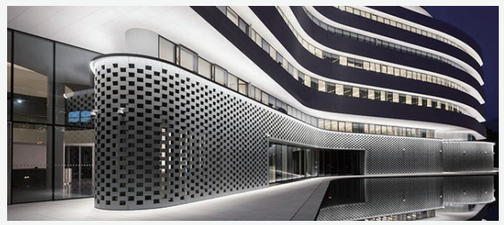
What Tests And Certifications Are Required for Reliable Outdoor Silicone Neon Flex Products?

Outdoor silicone neon flex is commonly used for exterior lighting applications, including building facades, landscape architecture, roads and bridges, and waterscape lighting. These products must endure harsh conditions and variable challenges during installation and throughout their lifespan, requiring exceptionally high standards of quality, reliability, and long-term stability. Therefore, comprehensive...



Dynamic Façade Lighting – 11 Technical Highlights on DMX512 RGB Neon Strip Applications

This article primarily introduces key technical points for applying RGB neon strip lights controlled by the DMX512 protocol in dynamic architectural façade lighting projects. It covers critical aspects, including product technology, installation, wiring, and control systems, to help establish a foundational understanding of practical DMX512 applications.



11 Best Outdoor LED Neon Lights For 2025 (Weatherproof & Bright)

Lighting designers and architects are increasingly choosing outdoor LED neon lights for their reliability, durability and brightness. These lights are flexible, offer energy efficiency, excellent brightness, and have a strong visual impact. They can be used to light up architectural features, create atmosphere on rooftops or gardens, or illuminate facades.
This article will highlight 11 of the best weatherproof and bright outdoor LED neon lights...