

# CIVILIGHT

## Illumination Flex Strips



## Why

### Airs

#### **The Optimal Indoor/Outdoor Directional Linear Lighting Solution**

- 40°/50° directional flexible light strip with a projection distance of up to 12 meters ;
- Ultra-narrow 5~10mm wide directional flexible light strip;
- Single-end power supply supports up to 10 meters with <15% brightness difference between ends.
- Can be manufactured as silicone waterproof light strips, with a maximum power of 30W/meter.
- Compatible with suitable profiles to form linear light modules (XLine Module)
- The most cost-effective, convenient, and efficient linear directional lighting solution.

### Apollo

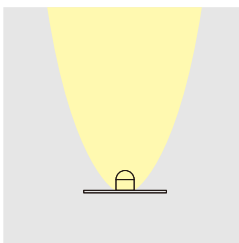
#### **The Most Efficient Linear Lighting Solution for Indoor, Outdoor, Industrial & Commercial Applications**

- Ultra -high-efficiency flexible light strip– 215lm/W (CRI80)
- Premium light quality– CRI97 R9>95 up to 170lm/W flexible light strip.
- 24V single-end power supply supports 10-meter runs with <15% brightness variance between ends.
- Apollo light strips can be integrated into linear light module (XLine Module) for versatile applications.
- The most convenient and energy-efficient industrial & commercial linear lighting solution.

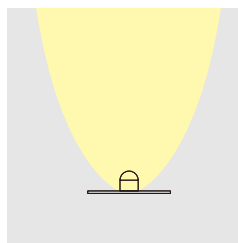
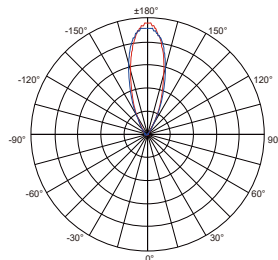
## Aris

Optimal small size directional flexible strip

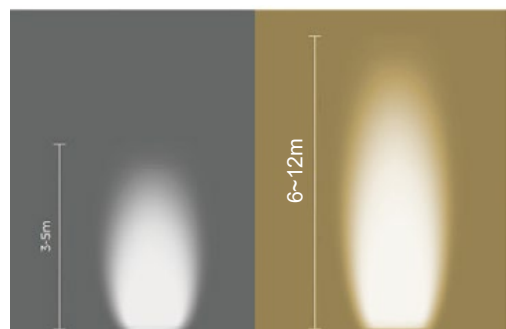
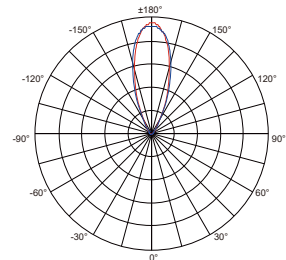
40°/50° directional flexible light strip with a projection distance of up to 12 meters  
Ultra-narrow 5~10mm wide directional flexible light strip;  
Single-end power supply supports up to 10 meters with <15% brightness difference between ends.



40°



50°



Traditional strip

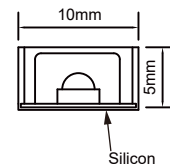
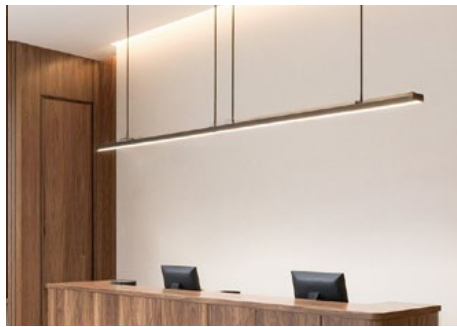
Aris Flex strip

### 40°/ 50° all-in-one LED

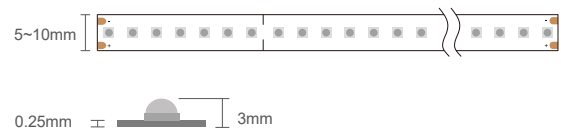
Beam angle is 40°/ 50° without extra lens or other optics.  
Higher light intensity and uniformity with a high illuminance and penetrating power of up to 10 - 12 meters.

Traditional strip with an extra lens irradiates only 3-5m

## Small Size



5~10mm wide IP20 flex strip with firm integrated lens, after silicon extrusion, is only 5x10mm, up to 30W/m. The extra lens on many other strips on the market is subject to easy peeling off.



## Traditional lens light strips



Have large size, are prone to falling off and have low penetration power.

# Apollo

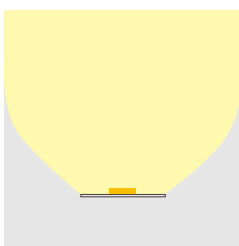
Ultra -high-efficiency flexible light strip– 215lm/W (CRI80)

Premium light quality– CRI97 R9>95 up to 170lm/W flexible light strip

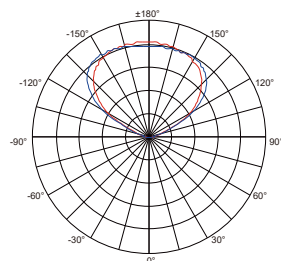
24V single-end power supply supports 10-meter runs with <15% brightness variance between ends.

Apollo light strips can be integrated into linear light module (XLine Module) for versatile applications.

The most convenient and energy-efficient industrial & commercial linear lighting solution.



120°

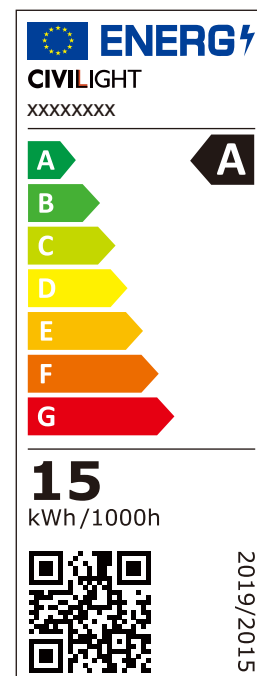


## Apollo Flex Strip

The distinctive feature of Apollo lies in its extremely high brightness. This 120° wide floodlight strip it features up to 6500lm per meter, with a power of only 30 watts per meter. In comparison, the light efficiency of common LED strips with the same power in the market is only 50% of that of Apollo's strips.

Class A per new ErP Standard;

Light efficiency up to 215Lm/w at Class A per new ErP Standard; (CRI80)



15/ 20/ 30W/m, up to 6500Lm/m;

It has a high luminous flux and can provide sufficient and bright light. For example, in indoor spaces, it can be used for office lighting, architecture lighting, or industry lighting etc., making the environment clear and visible.

## Healthy light CRI 97+

Full spectrum based on the solar spectrum, provides healthy light source, alleviates visual fatigue, Use natural sunlight to regulate our physical, mental and physical health.



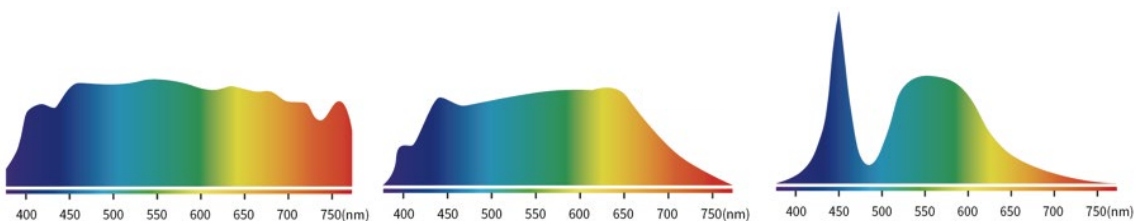
Protect our eyes and health



**CRI $\geq$ 97**

**R9 $\geq$ 95**

**Rf $\geq$ 95**



Full spectrum

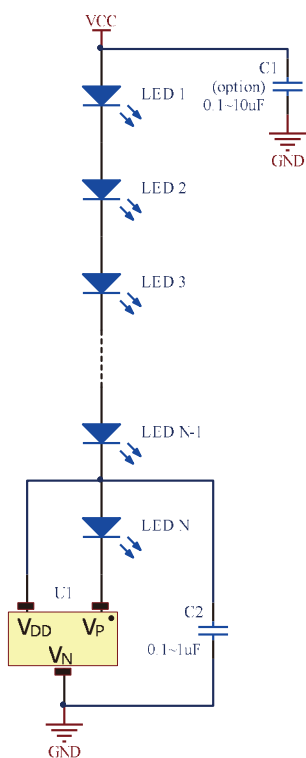
Apollo

Normal (LED)

## Constant current IC design

Using a constant current IC design ensures that the current in the strip circuit remains constant. Providing a stable current can ensure that the light strip emits light with a constant brightness, and at the same time prevent the light strip from being damaged due to excessive current, thereby maximizing the service life of the light strip.

### Application circuit diagram

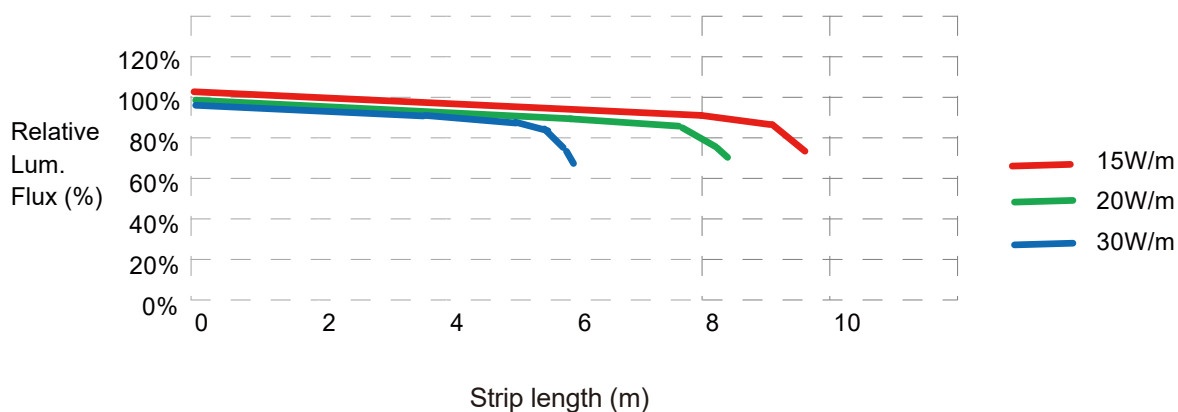




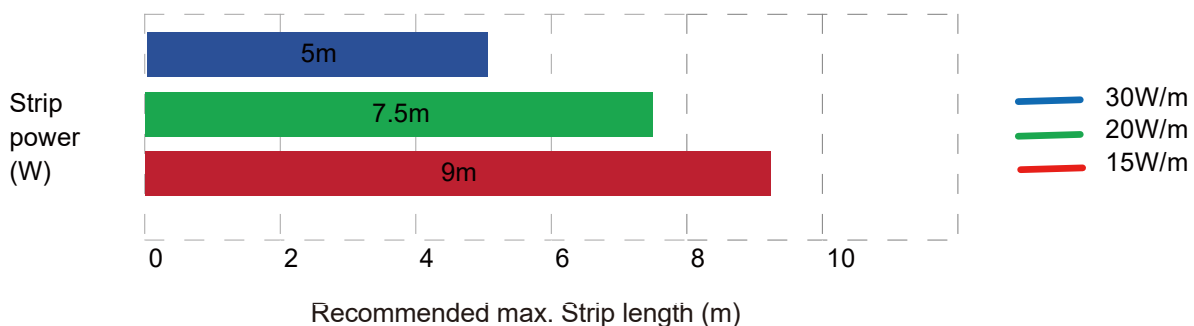
## STABILITY OF LUMINOUS FLUX

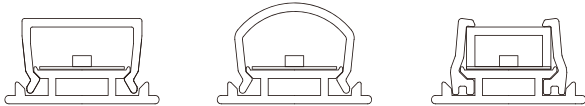
Ta = 25°C, input voltage of 24VDC.

The graphic below shows the expected typical change in luminous flux in %, while having one sided power supply, between the first and last step of the named LED Strips length.



To ensure the highest possible quality of the installation, we recommend to limit the maximum LED strip length, based on the individual strip power, to the maximum length, showed in the graph. Hereby it will be ensured, that the typical maximum reduction will remain below 15% on the displayed LED strip length.





Non-Directional light



Directional light

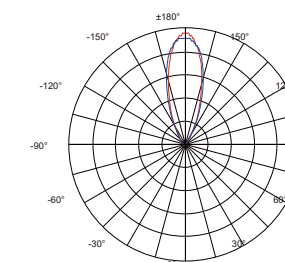
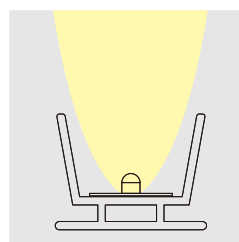
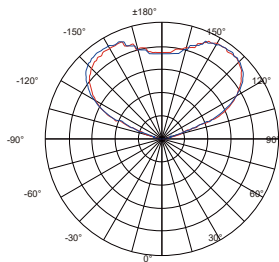
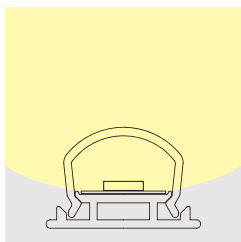
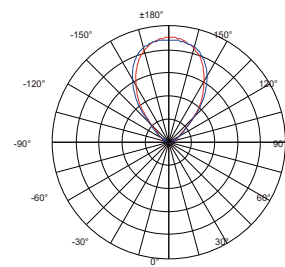
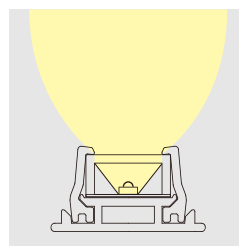
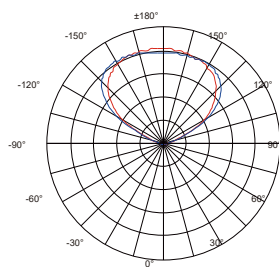
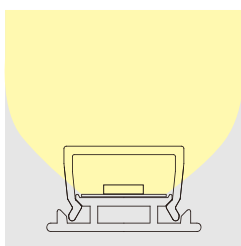
## XLine Module can be infinitely long

Users can firstly install the aluminum profiles, then the high-quality flex strips, and finally add the PC cover. The length can be achieved according to the user's requirements.

Combined with high-quality power supplies, the XLine Module can be extended to a maximum of 20m per power supply and is the best module for long-distance linear lights.

XLine Module has both indoor and outdoor types. The maximum single strip indoors can reach 30W/m, 6500lm/m. The outdoor ones can reach IP67, with a single strip capable of up to 30W/m and 6000lm/m.

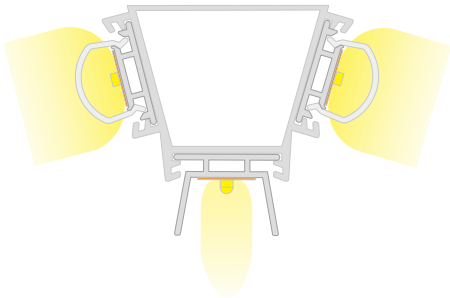
The XLine module can use Aris & Apollo as the light source.



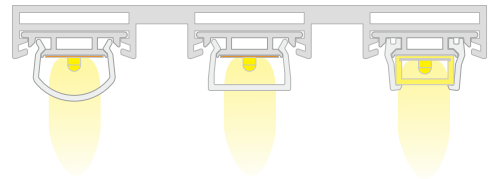
Aris & Apollo flex strips can be integrated with proper profiles and optical shades into linear light module (XLine Module).



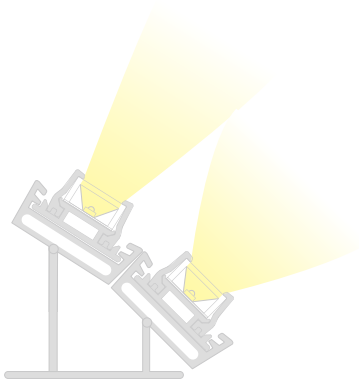
Pendant lamp for Office/ Hotel



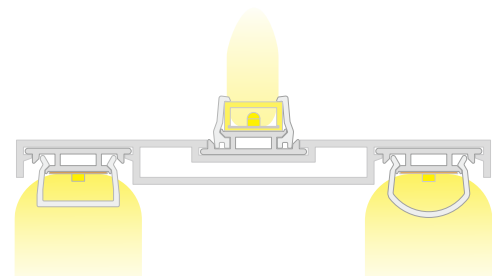
Linear for Super Market/ Warehouse



Linear for Industry



Outdoor wall washing



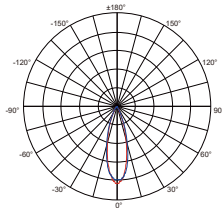
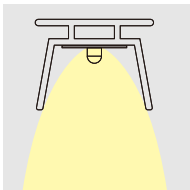
Architectural lighting

XLine Module breaks through the limitations of traditional light modules' point light emission, it unleashes infinite design possibilities, flexibly presenting its form based on requirements.

It offers a high sense of spatial three-dimensionality and layering, with high power: for example 30W/m, 20W/m, with a luminous efficacy of over 215lm/W(Apollo) or 40°/ 50° (Aris)

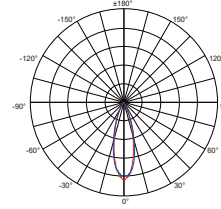
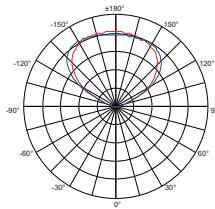
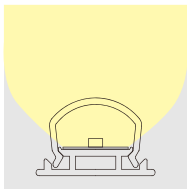
# Industry

The core value of targeted lighting in industrial lighting lies in using the "light" medium to integrate safety production, efficiency, quality, and make the working space more comfortable and bright. The linear targeted lighting design enables the lamps to be used in a wider space, such as in a heavy equipment workshop with a ceiling height of 7 meters.



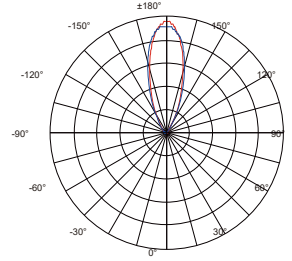
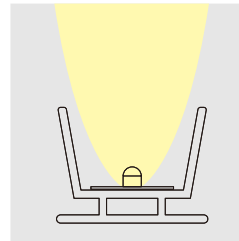
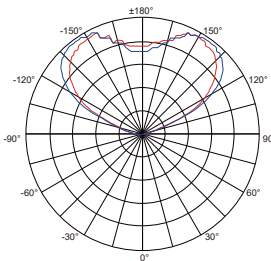
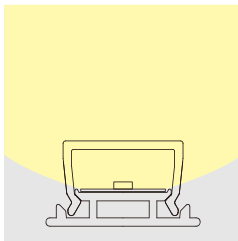
# Office

Linear lighting is crucial for office lighting because it provides even and consistent illumination, making workspaces more comfortable. The design of linear lighting can perfectly adapt to various office layouts, such as rectangular rooms or large open work areas.



# Hotel

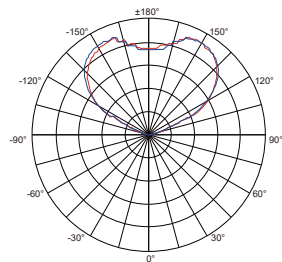
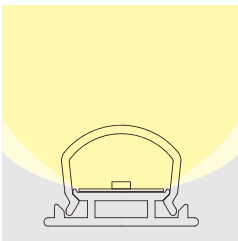
Hotel lighting should be designed to make guests feel comfortable and welcome, creating a warm and inviting atmosphere. Using flex linear lighting in hotel design can add visual interest, highlight architectural features, and give a modern touch to the overall look.





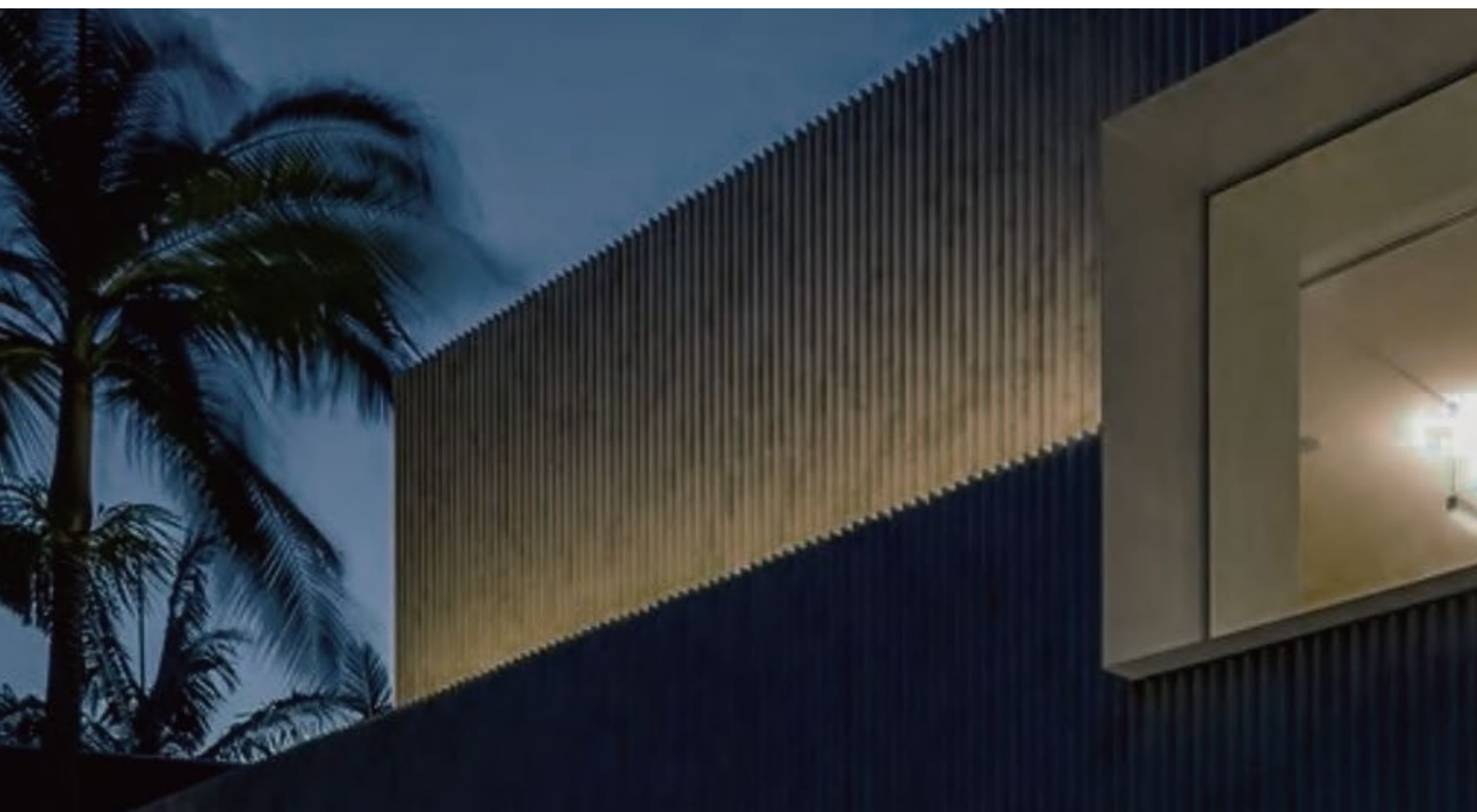
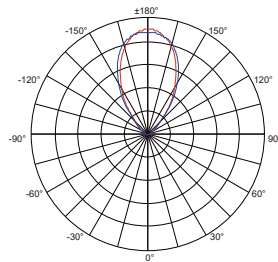
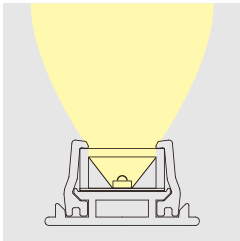
# Shopping mall

Lighting in shopping mall should be designed to create a comfortable and inviting atmosphere for customers, while also complementing the architecture of the space.



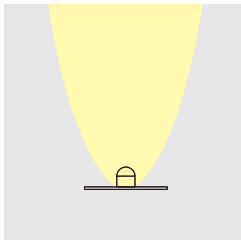
# Outdoor Lighting

Outdoor wall-washing lighting is a fusion of science and art - it uses precise light control to restore the true texture of buildings and conveys the emotional value of space through dynamic color language. Under the "people-oriented" urban lighting concept, excellent wall-washing design not only illuminates buildings but also awakens people's perception and love for the night environment, making every wall a "canvas of light and shadow" that tells the story of the city.

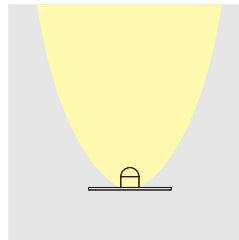
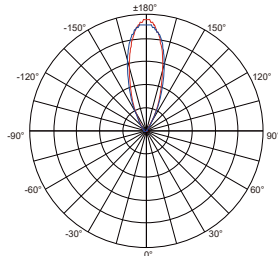




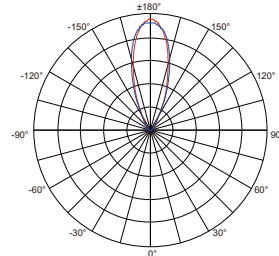
# Aris Flex DATA



40°

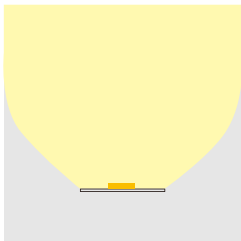


50°

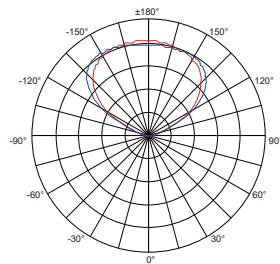


Product	Power (W)	Input (Vdc)	CCT (K)	Efficacy	Lumens/M	luminous intensity/M	CRI	Beam Angle(°)
Aris Flex	15W	DC24V	2000	85lm/W	1170lm	345cd	90	40°
			3000	95lm/W	1425lm	450cd		
			4000	100lm/W	1500lm	562cd		
			5000	95lm/W	1425lm	450cd		
	20W		2000	85lm/W	1560lm	460cd		
			3000	95lm/W	1900lm	686cd		
			4000	100lm/W	2000lm	730cd		
			5000	95lm/W	1900lm	686cd		
	30W		2000	85lm/W	2340lm	690cd		
			3000	95lm/W	2850lm	838cd		
			4000	100lm/W	3000lm	1095cd		
			5000	95lm/W	2850lm	838cd		
Aris Flex	15W	2000	85lm/W	1125lm	215cd	90	50°	
		3000	95lm/W	1395lm	315cd			
		4000	100lm/W	1470lm	516cd			
		5000	95lm/W	1395lm	315cd			
	20W	2000	85lm/W	1500lm	325cd			
		3000	95lm/W	1860lm	420cd			
		4000	100lm/W	1960lm	659cd			
		5000	95lm/W	1860lm	420cd			
	30W	2000	85lm/W	2250lm	420cd			
		3000	95lm/W	2790lm	630cd			
		4000	100lm/W	2940lm	810cd			
		5000	95lm/W	2790lm	630cd			

# Apollo Flex DATA (CRI80)

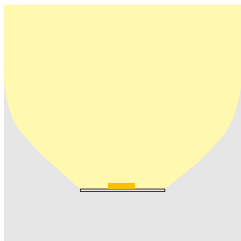


120°

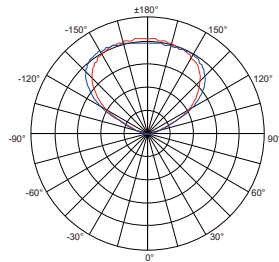


Product	Power (W)	Input (Vdc)	CCT (K)	Efficacy	Lumens/M	CRI	Beam Angle(°)
Apollo Flex	15W	DC24V	2700	210lm/W	3150lm	80	120°
			3000	210m/W	3150lm		
			4000	215lm/W	3225lm		
			5000	210lm/W	3150lm		
			6000	210lm/W	3150lm		
	20W		2700	210lm/W	4200lm		
			3000	210m/W	4200lm		
			4000	215lm/W	4300lm		
			5000	210lm/W	4200lm		
			6000	210lm/W	4200lm		
	30W		2700	210lm/W	6300lm		
			3000	210m/W	6300lm		
			4000	215lm/W	6450lm		
			5000	210lm/W	6300lm		
			6000	210lm/W	6300lm		
	15W	DC48V	2700	210lm/W	3150lm	80	120°
			3000	210m/W	3150lm		
			4000	215lm/W	3225lm		
			5000	210lm/W	3150lm		
			6000	210lm/W	3150lm		
20W	2700		210lm/W	4200lm			
	3000		210m/W	4200lm			
	4000		215lm/W	4300lm			
	5000		210lm/W	4200lm			
	6000		210lm/W	4200lm			
30W	2700		210lm/W	6300lm			
	3000		210m/W	6300lm			
	4000		215lm/W	6450lm			
	5000		210lm/W	6300lm			
	6000		210lm/W	6300lm			

# Apollo Flex DATA (CRI97+)



120°



CRI ≥ 97

R9 ≥ 95

Rf ≥ 95

Product	Power (W)	Input (Vdc)	CCT (K)	Efficacy	Lumens/M	CRI	Beam Angle(°)
Apollo Flex	15W	DC24V	2700	160lm/W	2400lm	97	120°
			3000	165m/W	2475lm		
			4000	170lm/W	2550lm		
			5000	165lmW	2475lm		
			6000	165lm/W	2475lm		
	20W		2700	160lm/W	3200lm		
			3000	165m/W	3300lm		
			4000	170lm/W	3400lm		
			5000	165lm/W	3300lm		
			6000	165lm/W	3300lm		
	30W		2700	160lm/W	4800lm		
			3000	165m/W	4800lm		
			4000	170lm/W	4950lm		
			5000	165lm/W	4800lm		
			6000	165lm/W	4800lm		
Apollo Flex	15W	DC48V	2700	160lm/W	2400lm	97	120°
			3000	165m/W	2475lm		
			4000	170lm/W	2550lm		
			5000	165lm/W	2475lm		
			6000	165lm/W	2475lm		
	20W		2700	160lm/W	3200lm		
			3000	165m/W	3300lm		
			4000	170lm/W	3400lm		
			5000	165lm/W	3300lm		
			6000	165lm/W	3300lm		
	30W		2700	160lm/W	4800lm		
			3000	165m/W	4800lm		
			4000	170lm/W	4950lm		
			5000	165lm/W	4800lm		
			6000	165lm/W	4800lm		



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