

The Future of Lighting

# 2010 LED Product Catalogue

## STREET AND INDUSTRIAL RANGE



The Future of Lighting

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**FOXCONN**®



# 2010 PRODUCT CATALOGUE



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## Modo Lights Company Profile

Modo Lights FZCO is a UAE company based in Dubai with offices in the UK and Australia.

The company specialises in the distribution of LED products and solutions and is the exclusive distributor for Foxconn's market leading range of Street and Industrial LED products.

Modo Lights is dedicated to the successful adoption of quality LED lighting products in all areas of lighting. The products will drastically reduce customers energy costs and provide much better lighting conditions than traditional forms of lighting.

## Foxconn Group Profile

Foxconn is one of the largest electronics manufacturers in the world.

Terry Gou founded Hon Hai Precision Industry Company Ltd, the anchor company of Foxconn Technology Group in 1974 with US\$7,500. He believed that electronic products would be an integral part of everyday life in every home and office. He focussed on tightly integrated mechanical and electrical components, to provide the lowest cost solution possible.

Today, Foxconn Technology Group is the foremost providers of equipment to global Computer, Communication and Consumer-electronics ("3C") leaders. Aided by its legendary execution, uncompromising customer devotion and award-winning proprietary business model, eCMMS, Foxconn Group is not only the largest, but also the fastest growing multinational manufacturing services provider (including CEM, EMS, ODM and CMMS) in the world.

Focussing on the fields of nanotechnology, heat transfer, wireless connectivity, material sciences and green manufacturing processes, Foxconn has accumulated over 15,000 worldwide patents making it a recognized leader of innovation and technical know-how, ranking in MIT's patent scorecard.



## FOXCONN TECHNOLOGY GROUP

### Semiconductor Lighting Division Profile

After 10 years of accumulating expertise in the fields of thermal, semiconductor, nano-measurement and optical coating technology, Foxconn Technology Group, is now in a “manufactured by Foxconn” transition phase. It is also a member of the 11th Local Government Five-Year “Urban Green Lighting Project Planning Framework” to promote energy-saving and environmental protection.

The Foxconn LED division now employs 100 R&D staff and have created a second-generation of high efficiency, energy-saving LED lighting products.

In 2003, Foxconn South China Test Centre successfully passed expert assessment by the Chinese National Laboratory Accreditation Board. The level of its management and technical capacity have been recognised through certification by the 3C and CQC certification, the European CE and the US UL certification.

Foxconn lighting products have been deployed widely in municipal roads, highway tunnels, community lighting and many other indoor and outdoor locations. This includes Shenzhen’s Longhua plant and the surrounding road project, as well as projects in Taiyuan and Nanning City.

After installation, the lighting performance has been monitored for light intensity, luminaire lifespan and other major technical factors, all of which exceeded the relevant standards.

### LED Energy-Conservation Technology

In today’s world of environmental protection and energy conservation, Foxconn has won the trust and support of customers around the world by delivering excellence in energy-saving LED lighting technology, and established a solid reputation within the industry.

LED stands for Light-Emitting Diode, a semiconductor device in use for many decades in low energy applications. Now available in high power packages, it can be used for every day lighting.

LED devices do not rely on a heated filament to emit light, and benefit from a long life of typically 50,000hours. During that time, they emit no UV radiation and contain no harmful chemicals such as mercury.

Foxconn LED energy-saving lights have the following unique advantages:

1. Low power consumption: Save up to 75% of the electricity of traditional lamps without compromising the apparent brightness. This results in a short pay-back time of typically 13 months for LED lamp deployment.

2. Long working life: LED lamps have a lifespan of around 50,000hours, defined as the point at which the luminance has reduced by 30%. This results in significant maintenance cost savings compared to traditional lamps.

3. Environmental protection: No mercury is used in the manufacture of LED lamps. The luminaires are also recyclable using replacement LED strips and driver boards.

4. Good colour rendering: LED light is close to daylight in composition. This means that the human eye can recognise colours more effectively, and drivers can operate more safely.

6. No UV radiation: Ensuring comfortable working environment and no attraction to the lamp by insects.

# LED

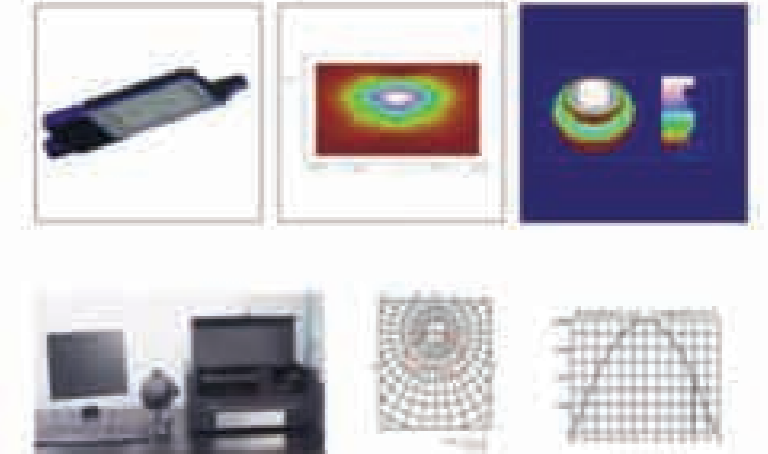
Intensity Distribution Test	Intensity Distribution Analysis		
Dust Prevention Test	Integrating Sphere		
Water Prevention Test	Vibration Test		
Thermal Shock Test	Salt Atmosphere Test		

# Integration of Optics, Mechanics and Electronics

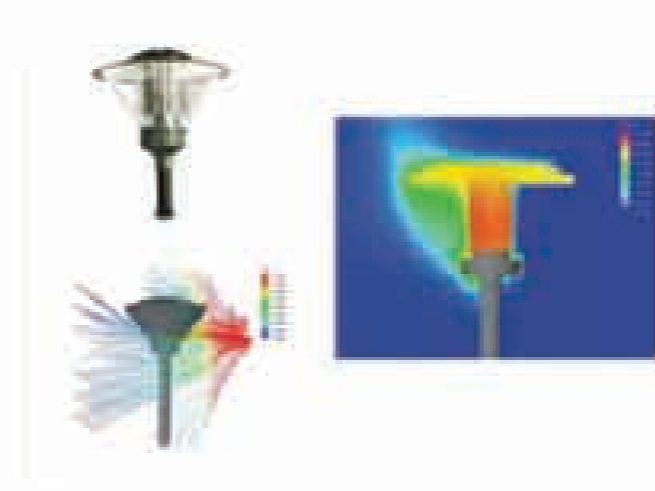
CFD Simulation Analysis



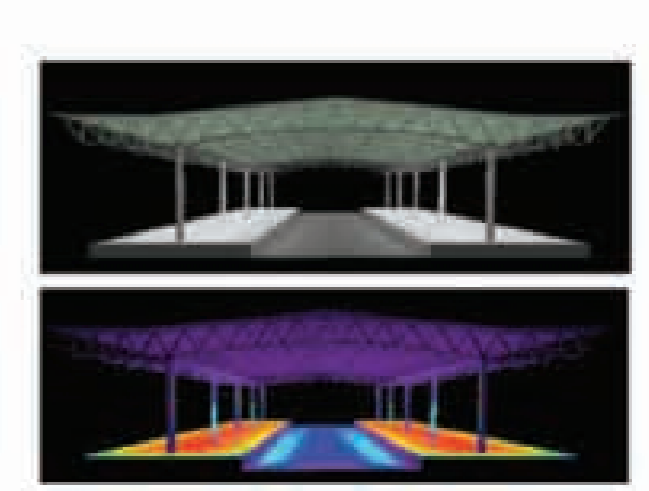
Ablity of Intensity Distribution Design



Application of Street Light Illumination Analysis



Dialux analysis



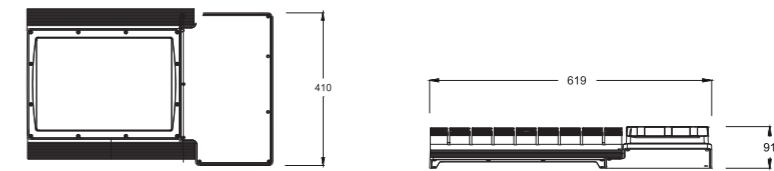


# 901

**Location:**  
Major Road, Sub-Major Road, High Way, Bridge



	901-1	901-2	901-3	901-4(Solar option)
LED Luminous Efficiency	100lm/w	100 lm/w	100 lm/w	100lm/w
Input Voltage	AC 200V-240 V	AC 200V-240 V	AC 200V-240 V	24V
Frequency Range	50~60HZ	50~60HZ	50~60HZ	DC
Input Power	195 W	155 W	100W	60W
Power Factor	> 0.9	> 0.9	> 0.9	1
Lamp Flux	> 13200lm	> 10500lm	> 6800lm	> 4080lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White	3700 – 4300K Warm White 4600 – 5600K Cool White	3700 – 4300K Warm White 4600 – 5600K Cool White	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75	Ra>75	Ra>75	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%			
Light Source Life	>50000 Hrs	>50000 Hrs	>50000 Hrs	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC	Aluminum Alloy & PC	Aluminum Alloy & PC	Aluminum Alloy & PC
Power Options	Mains / Hybrid Wind/Solar	Mains / Hybrid Wind/Solar	Mains / Hybrid Wind/Solar	Mains / Hybrid Wind/Solar
Figuration Size	619x410x91mm	619x410x91mm	619x410x91mm	619x410x91mm
Net Weight	14.2 Kg	14.2 Kg	14.2 Kg	14.2 Kg
IP Rating	IP 65	IP 65	IP 65	IP 65
Installation	O.D.60mm	O.D.60mm	O.D.60mm	O.D.60mm



■ Shenzhen



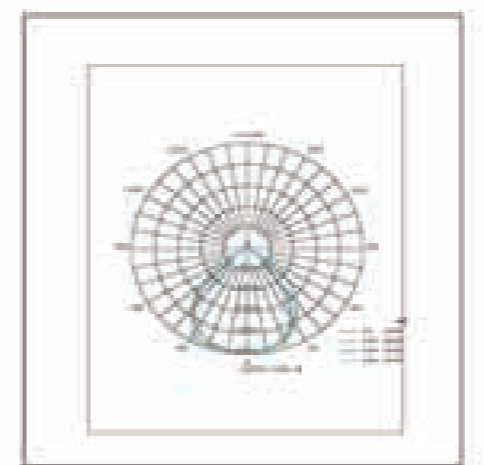
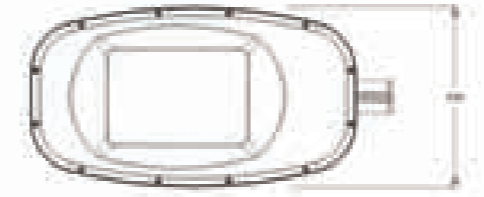
# 902

**Location:**  
Major Road, Sub-Major Road, High Way, Bridge

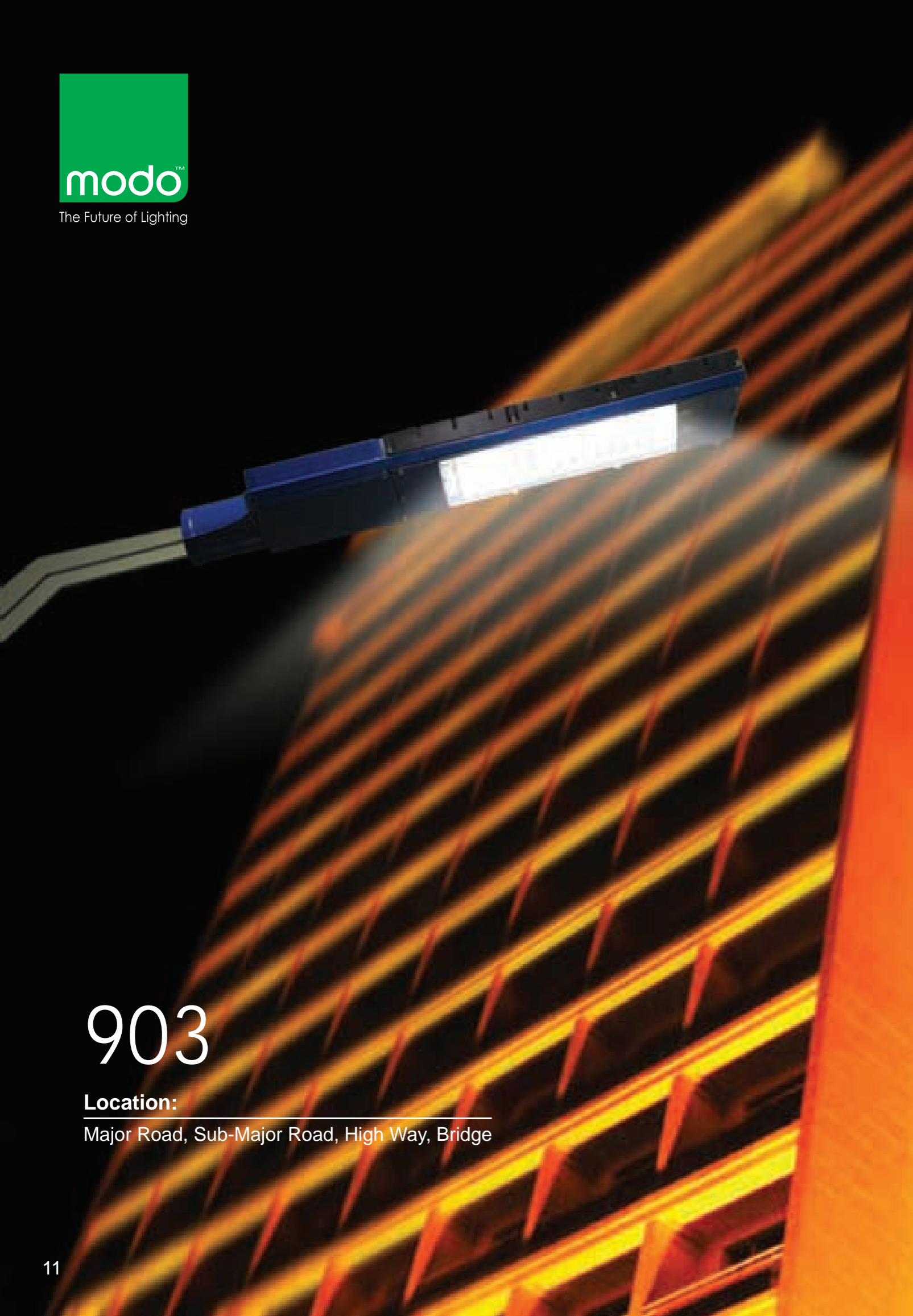


## 902

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<1000mA
Input Power	195 W
Power Factor	> 0.90
Lamp Flux	> 13200lm
Colour Temperature Options	3700–4300K Warm White 4600–5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	619x410x91mm
Net Weight	14.2 Kg
IP Rating	IP 65
Installation	O.D.60mm



■ Yantai

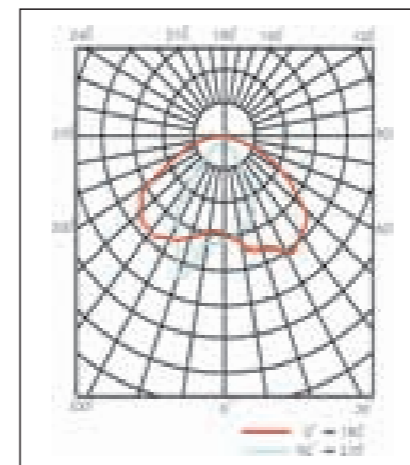
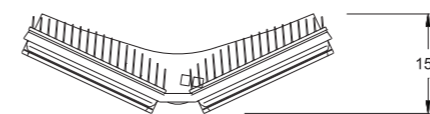
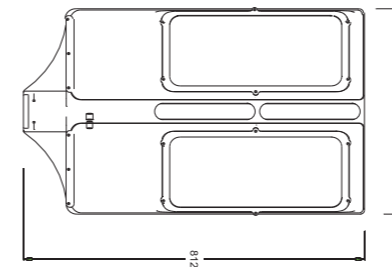


# 903

**Location:**  
Major Road, Sub-Major Road, High Way, Bridge

## 903

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<1600mA
Input Power	310 W
Power Factor	> 0.90
Lamp Flux	> 24000lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	812x489x158mm
Net Weight	16.1 Kg
IP Rating	IP 65
Installation	O.D.60mm



■ Taiyuan



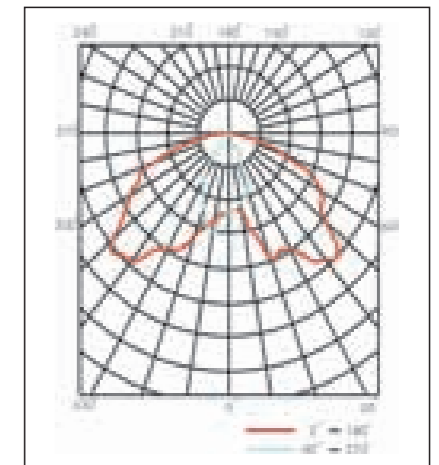


	904-1	904-2
LED Luminous Efficiency	100lm/w	100lm/w
Input Voltage	AC 200V-240 V	AC 200V-240 V
Frequency Range	50~60HZ	50~60HZ
Input Current	<1200mA	<1000mA
Input Power	235 W	195 W
Power Factor	> 0.9	> 0.9
Lamp Flux	> 15900lm	> 13200lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White	
Colour Rendering Index	Ra>75	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%	
Light Source Life	>50000 Hrs	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC	
Figuration Size	905x391x158mm	905x391x158mm
Net Weight	13 Kg	13 Kg
IP Rating	IP 65	IP 65
Installation	O.D.60mm	O.D.60mm

Deployment Lookup Table

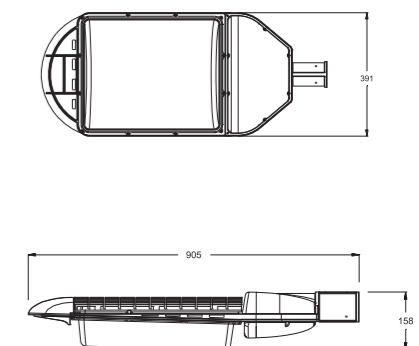
Spacing	25m	50m	75m	100m
3Lane Highway				
ME2		904	2x904	4x904
ME3a			2x904	3x904
2Lane Highway				
ME2		904	2x904	3x904
ME3a	916		904	2x904
MR4a		916		2x904
1Lane Roadway				
ME2	916	904		
ME3a		916	904	
MR4		916		
Single Side 1 Lane				
ME4	916			

Note: Most options also available with integrated or off-grid solar solution



# 904

**Location:**  
Major Road, Sub-Major Road, High Way, Bridge



■ Dongguan



# 906

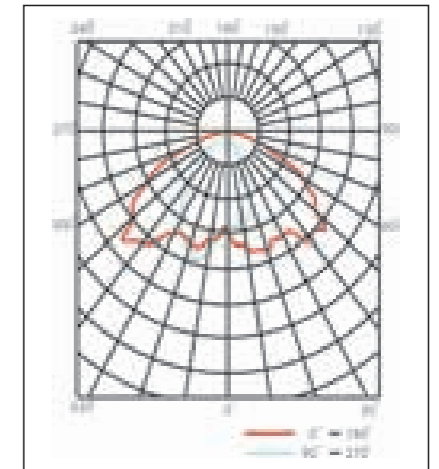
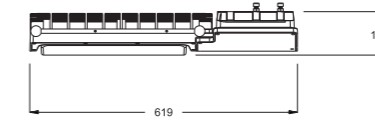
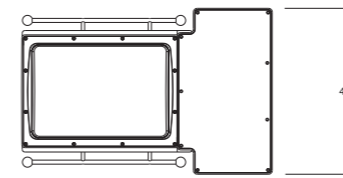
**Location:**

Major Road, Sub-Major Road, High Way, Bridge



## 906

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<500mA
Input Power	100 W
Power Factor	> 0.9
Lamp Flux	> 6800lm
Colour Temperature Options	3700–4300K Warm White 4600– 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	619x410x100mm
Net Weight	12.5 Kg
IP Rating	IP 65
Installation	O.D.60mm



■ Guangzhou



# 916

**Location:**  
Major Road, Sub-Major Road, High Way, Bridge

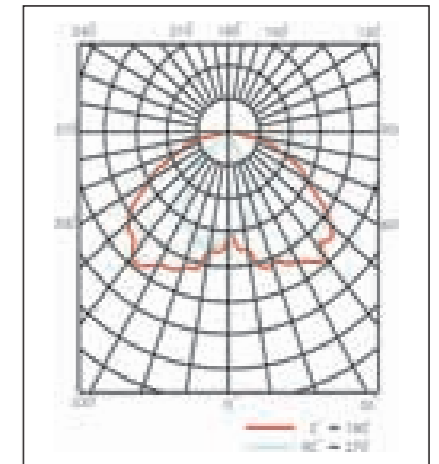
## 916

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<500mA
Input Power	100 W
Power Factor	>0.90
Lamp Flux	>6800lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	920x466x134mm
Net Weight	12 Kg
IP Rating	IP 65
Installation	O.D.60mm

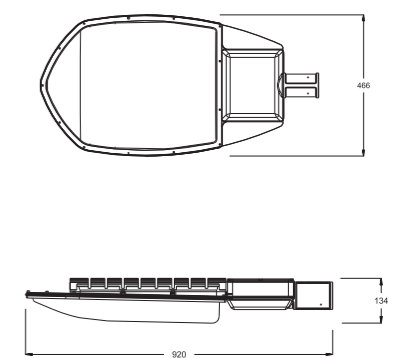
### Deployment Lookup Table

Spacing	25m	50m	75m	100m
3Lane Highway				
ME2		904	2x904	4x904
ME3a		904	2x904	3x904
2Lane Highway				
ME2		904	2x904	3x904
ME3a	916	904	904	2x904
MR4a		916	904	2x904
1Lane Roadway				
ME2	916	904		
ME3a		916	904	
MR4		916		
Single Side 1 Lane				
ME4	916			

Note: Most options also available with integrated or off-grid solar solution



■ Taiwan





The Future of Lighting



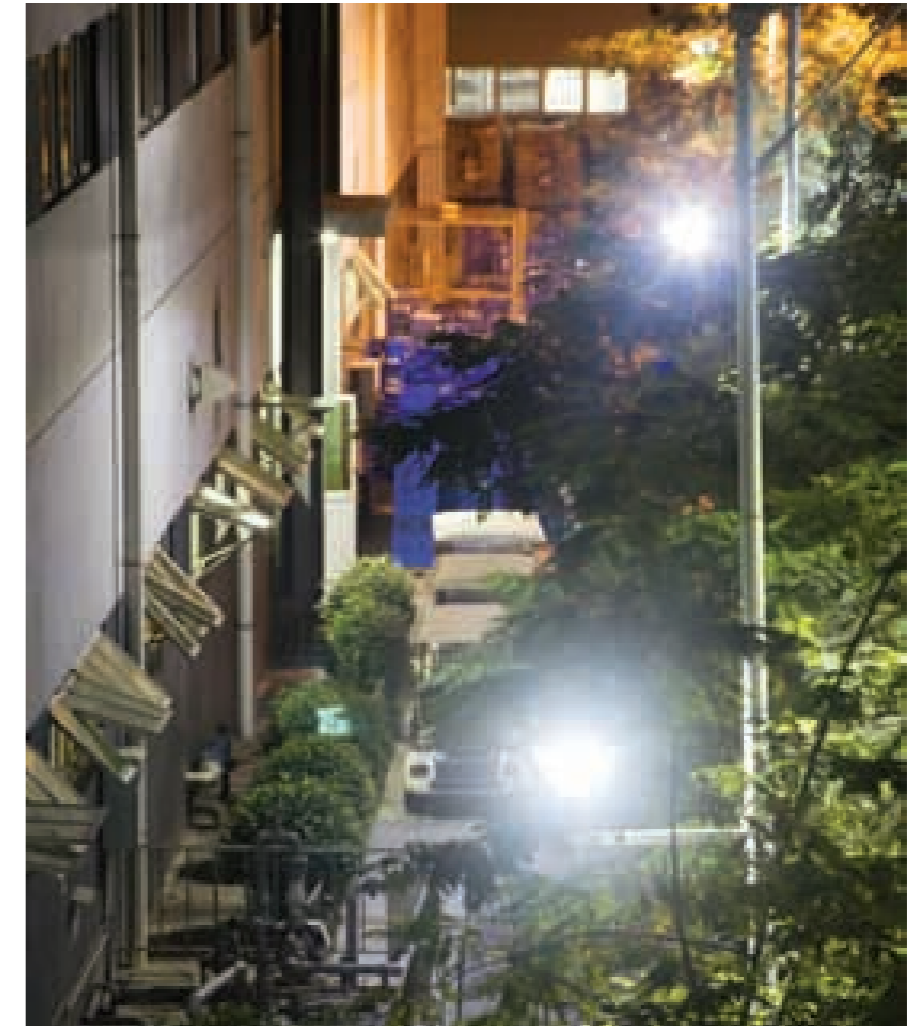
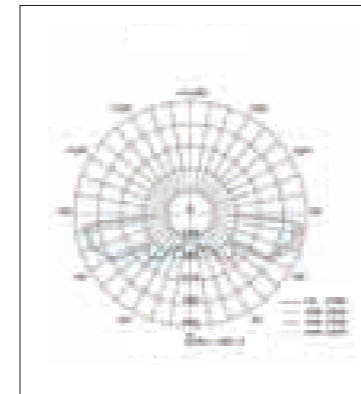
# 801

**Location:**

Side Walk Way, Garden, Square, Community, Park, etc.



	801-1	801-2
Luminous Efficiency	100lm/w	100lm/w
Input Voltage	AC 200V-240 V	AC 200V-240 V
Frequency Range	50~60HZ	50~60HZ
Input Current	< 460mA	< 270mA
Input Power	90W	45W
Power Factor	> 0.90	> 0.90
Lamp Flux	> 6000lm	> 3000lm
Colour Temperature Options	3700-4300K Warm White 4600-5600K Cool White	
Colour Rendering Index	Ra>75	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%	
Light Source Life	>50000 Hrs	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC	
Figuration Size	φ 500x435mm	φ 500x435mm
Net Weight	10 Kg	10 Kg
IP Rating	IP 65	IP 65
Installation	O.D. 50mm	O.D. 50mm



■ Vietnam



# 808

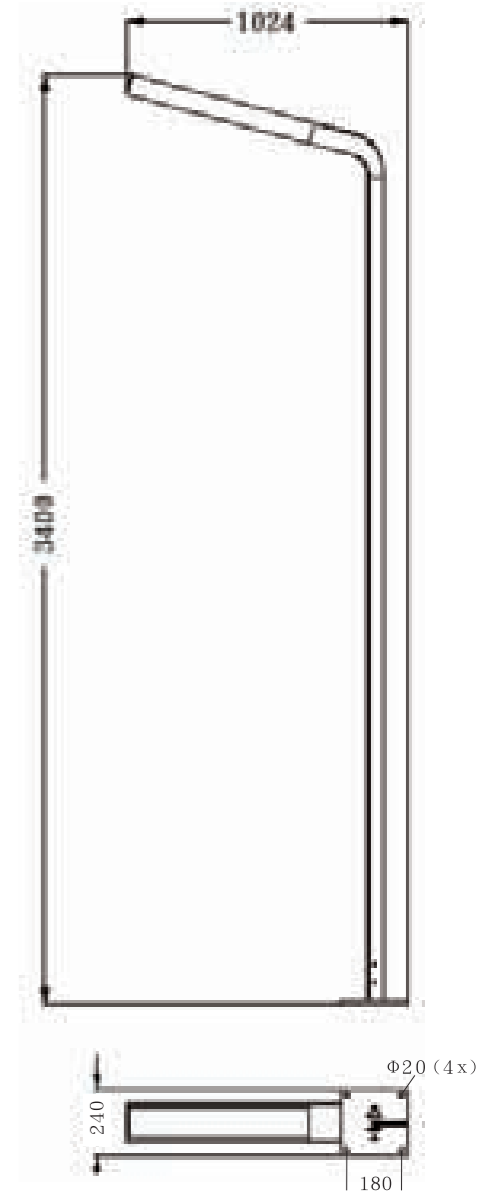
**Location:**

Side Walk Way, Garden, Square, Community, Park, etc.



## 808

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	< 240mA
Input Power	58 W
Power Factor	> 0.9
Lamp Flux	> 4000lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	1024 x 240 x 3400mm
Net Weight	30 Kg
IP Rating	IP 65



# 806 Solar

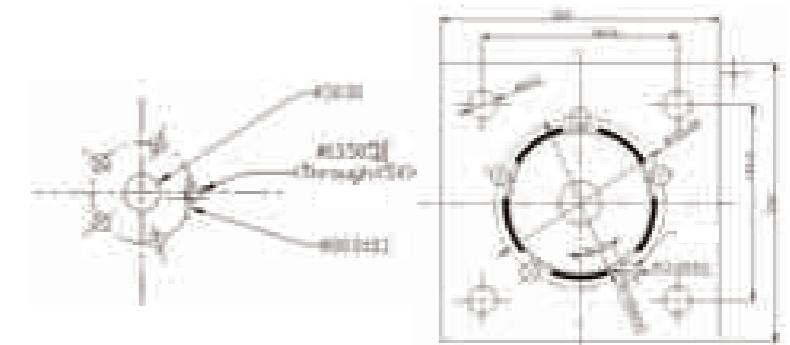
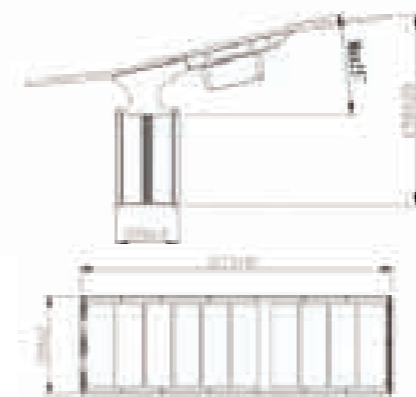
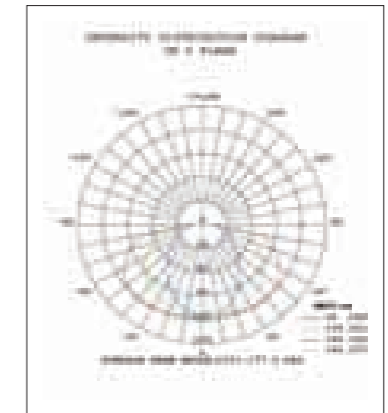
**Location:**

Side Walk Way, Garden, Square, Community, Park, etc.



## 806

Power	12W
Capacity	12V, 38H
Lamp Flux	800lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & Glass
Figuration Size	350x350x356mm
Net Weight	39.1 Kg
IP Rating	IP 65





# 601

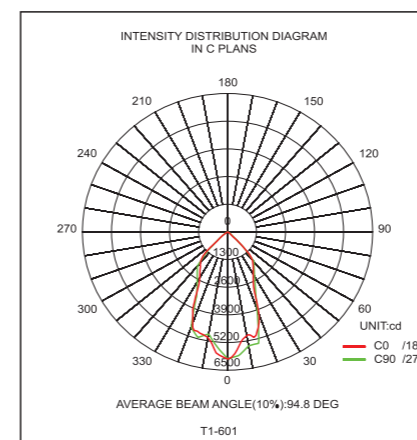
**Location:**

Wide Area Floodlighting, Car Park, Loading Bays



## 601

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	< 460mA
Input Power	90W
Power Factor	> 0.90
Lamp Flux	> 6100lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & Tempered Glass
Figuration Size	390x373x182mm
Net Weight	8 Kg
IP Rating	IP 65





# 602

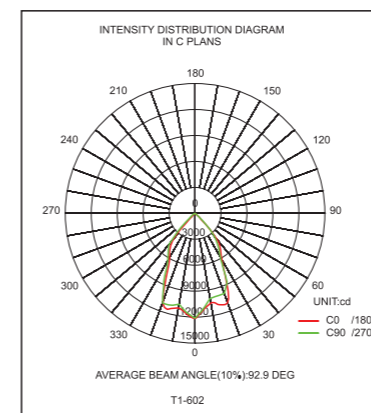
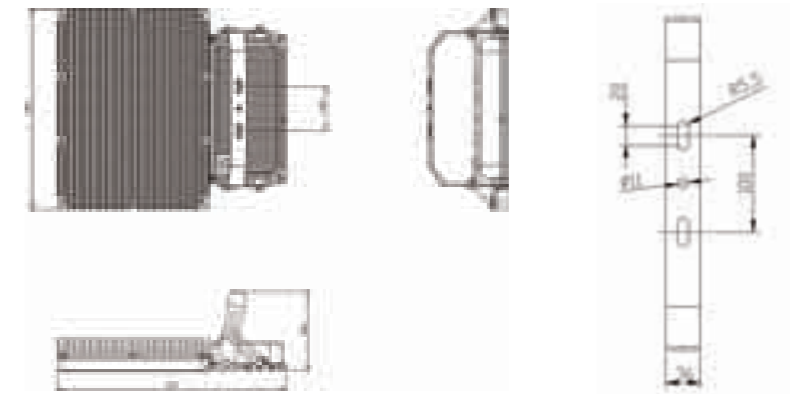
**Location:**

Wide Area Floodlighting, Car Park, Loading Bays



## 602

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	< 880mA
Input Power	175 W
Power Factor	> 0.90
Lamp Flux	> 12200lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & Tempered Glass
Figuration Size	515x450x180mm
Net Weight	13.7 Kg
IP Rating	IP 65





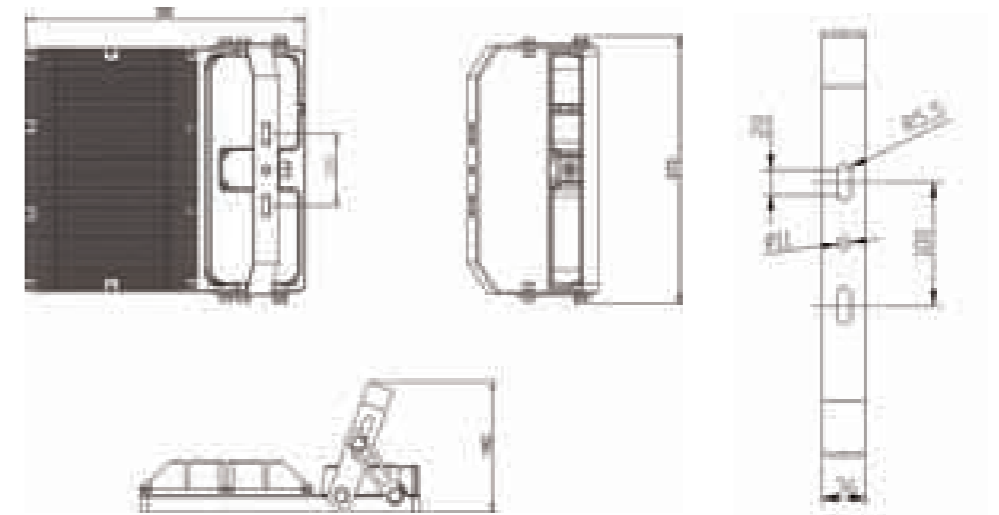
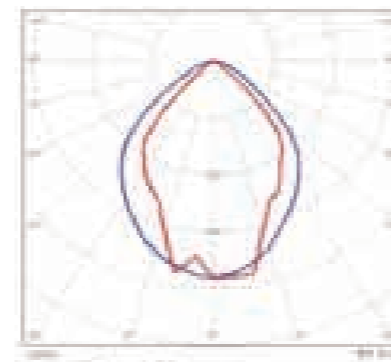
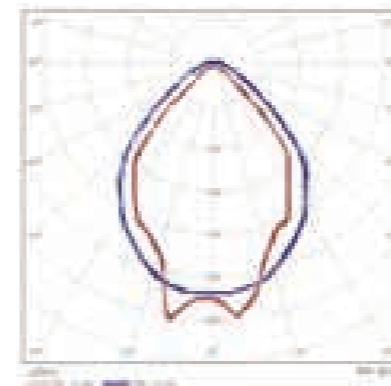
# 701

**Location:**

High Way, City Tunnel, Ground Tunnel, Viaduct, etc.



	701-1	701-2
Luminous Efficiency	100lm/w	100lm/w
Input Voltage	AC 200V-240 V	AC 200V-240 V
Frequency Range	50~60HZ	50~60HZ
Input Power	100W	60W
Power Factor	> 0.90	> 0.90
Lamp Flux	> 6800lm	> 4100lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White	
Colour Rendering Index	Ra>75	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%	
Light Source Life	>50000 Hrs	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC	
Figuration Size	390x 375x 182mm	
Net Weight	8 Kg	7.5 Kg
IP Rating	IP 65	IP 65



# 705

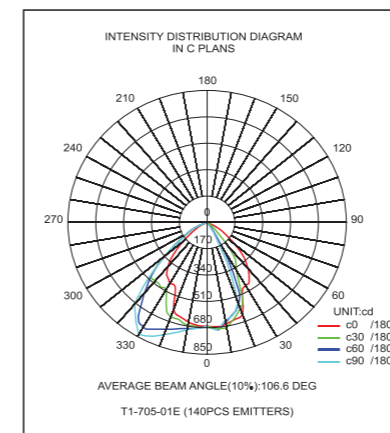
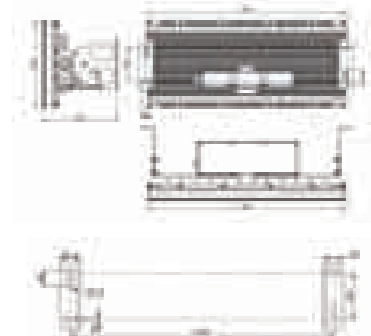
**Location:**

High Way, City Tunnel, Ground Tunnel, Viaduct, etc.



## 705

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<82 mA
Input Power	170W
Power Factor	> 0.90
Lamp Flux	> 11500 lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & Tempered Glass
Figuration Size	630x280x237mm
Net Weight	15 Kg
IP Rating	IP 65

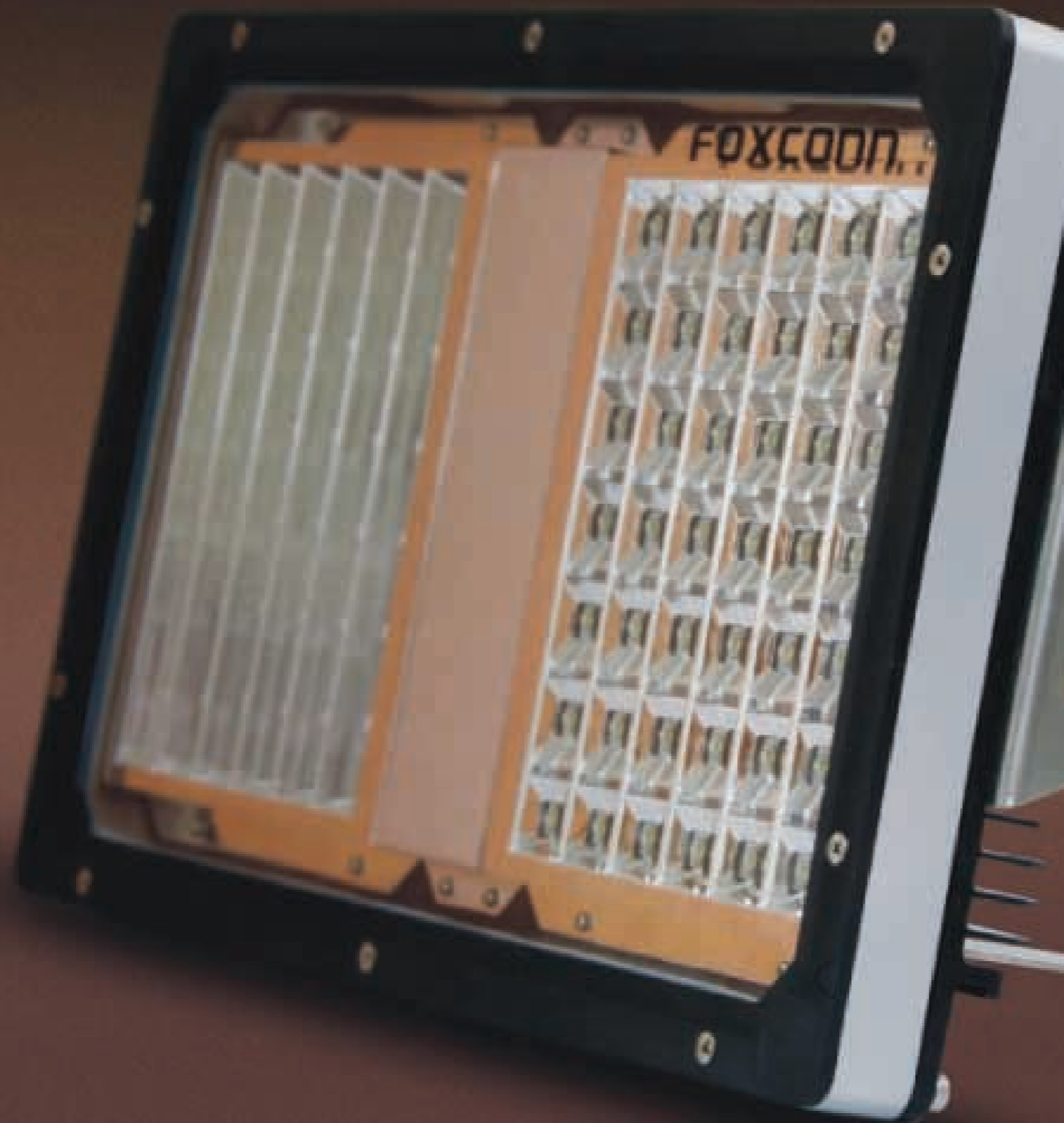


■ Shanghai

# 707

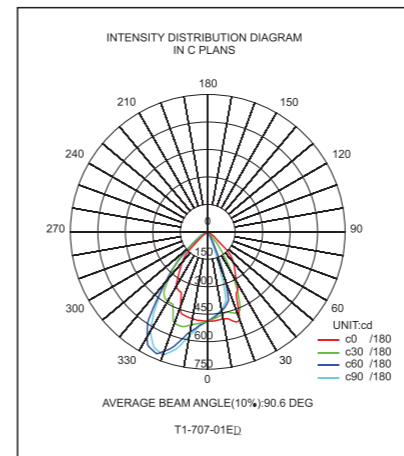
**Location:**

High Way, City Tunnel, Ground Tunnel, Viaduct, etc.



## 707

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50~60HZ
Input Current	<560mA
Input Power	100 W
Power Factor	> 0.90
Lamp Flux	> 6800 lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & Tempered Glass
Figuration Size	450x280x237mm
Net Weight	11 Kg
IP Rating	IP 65



**Road tunnel transition phase**



■ Tunnel detail, Taiwan

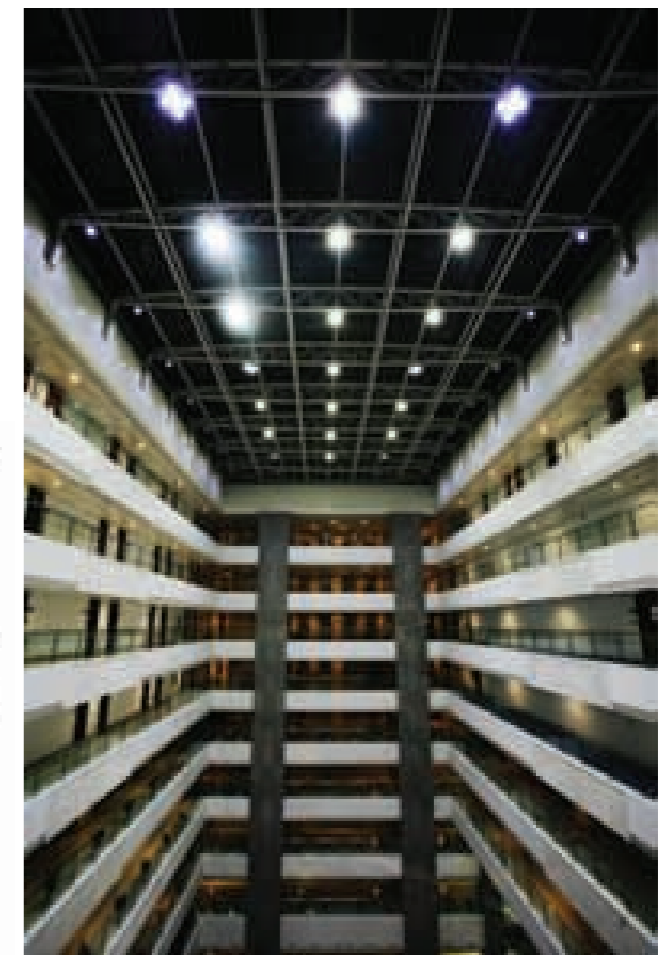
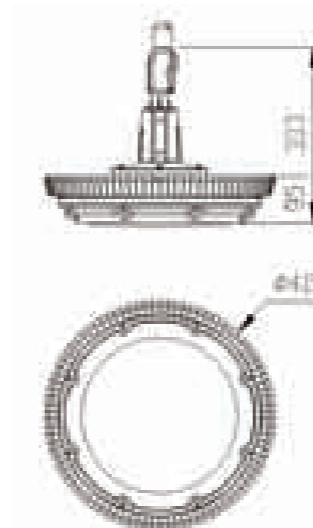
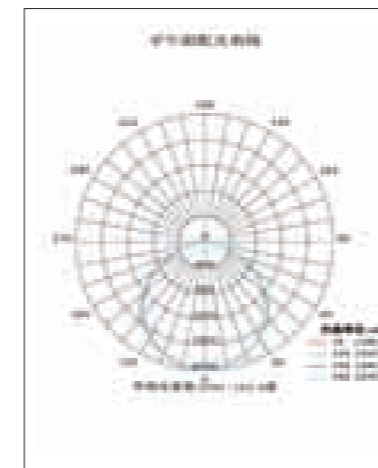
# 101 High Bay

**Location:**

Warehouse, Factory, Airport, Gymnasium, etc.

101

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-260V
Frequency Range	50~60HZ
Input Current	<610mA
Input Power	120W
Power Factor	> 0.90
Lamp Flux	> 9200lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy &PC
Figuration Size	φ 415x333mm
Net Weight	8Kg
IP Rating	IP 65
Installation	O.D.52mm





# 103

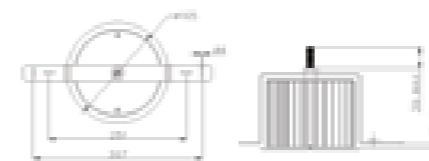
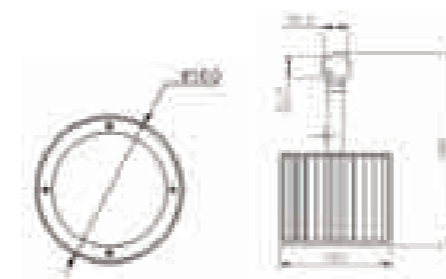
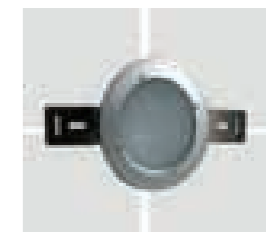
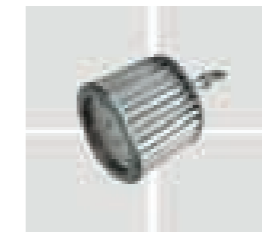
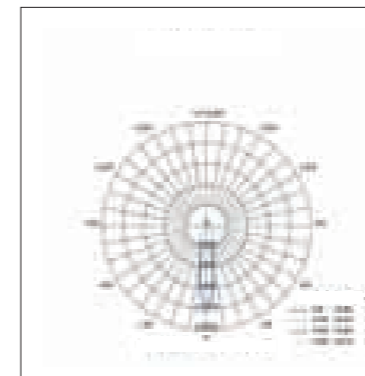
**Location:**

Office, Meeting Room, Classroom, Indoor Corridor, UTR Station Commercial Building, etc.



## 103

LED Luminous Efficiency	100lm/w
Input Voltage	AC 200V-240 V
Frequency Range	50HZ
Input Current	153 mA
Input Power	12W
Power Factor	> 0.90 W
Lamp Flux	> 800lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White
Colour Rendering Index	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%
Light Source Life	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC
Figuration Size	160x280mm
Net Weight	2.5Kg
IP Rating	IP54

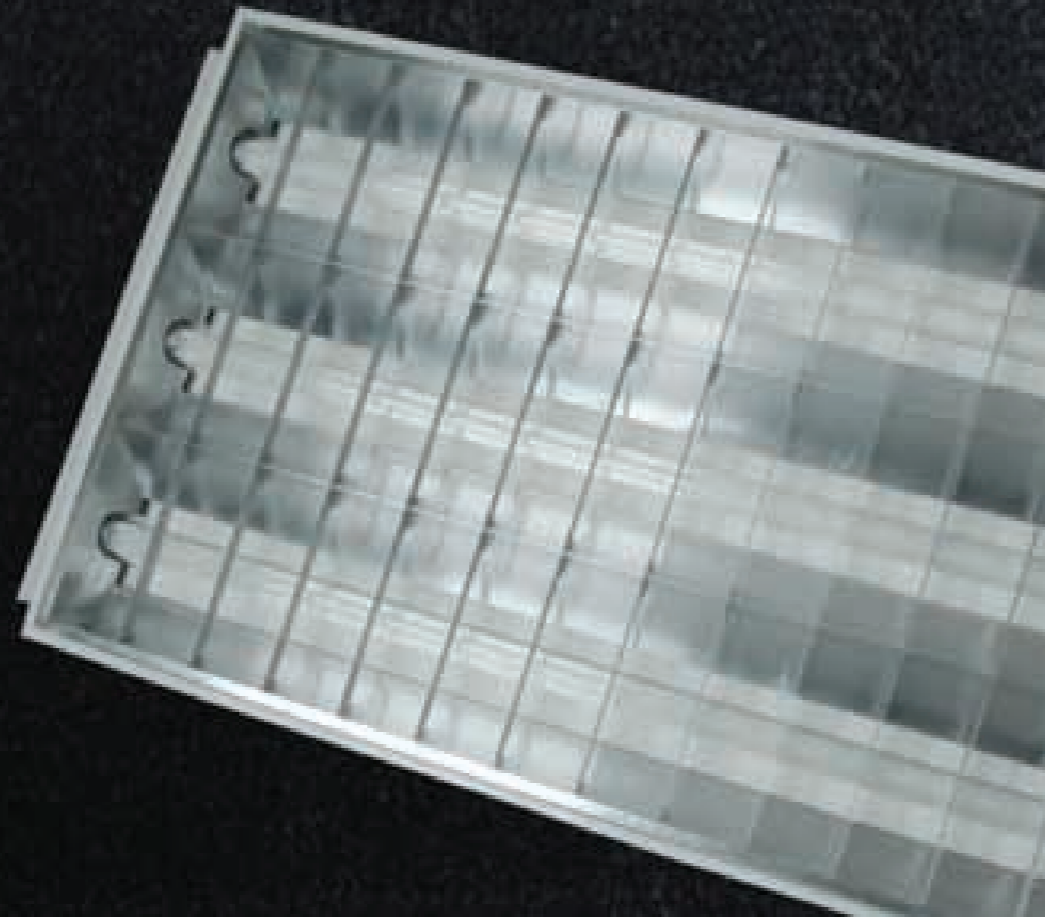




# C20

## Location:

Office, Meeting Room, Classroom, Indoor Corridor, UTR Station Commercial Building, etc.



	C20-1	C20-3
LED Luminous Efficiency	100lm/w	100 lm/w
Input Voltage	AC 200V-240 V	AC 200V-240 V
Frequency Range	50HZ	50HZ
Input Current	160 mA	160 mA
Input Power	22 W	11W
Power Factor	> 0.90	> 0.90
Lamp Flux	> 1400lm	> 700lm
Colour Temperature Options	3700 – 4300K Warm White 4600 – 5600K Cool White	
Colour Rendering Index	Ra>75	Ra>75
Working Environment	Working Temperature: -20℃~50℃ Working Humidity 10% ~ 90%	
Light Source Life	>50000 Hrs	>50000 Hrs
Housing & Lampshade	Aluminum Alloy & PC	Aluminum Alloy & PC
Figuration Size	1200 x φ30mm	600 x φ30mm
Net Weight	0.55Kg	0.35Kg
IP Rating	IP 54	IP 54

