

200+ Patent Certificates
\$1,000,000+ Annual Energy Saving
20,000+ Projects Successfully Installed



ILF Series LED Street Light

Power: 20W - 230W



Innovative & Tailored
Lighting Solutions for **Success**
www.aokledlight.com

Features of **ILF** Series



For others & details
please request



Benefits for choosing ILF



- **High Lumen Output**

High-performance LEDs efficacy >195lm/W



- **Multiple Lighting Solution**

Standard lighting effect and highlight effect options available.



- **Convenient Upgrade**

Reserved controller base installation port for convenient upgrades.



- **Self-Clean Cover**

Self-cleaning smooth back cover design.



- **Light Weight**

Lightweight, and economically practical.



- **Compact Design**

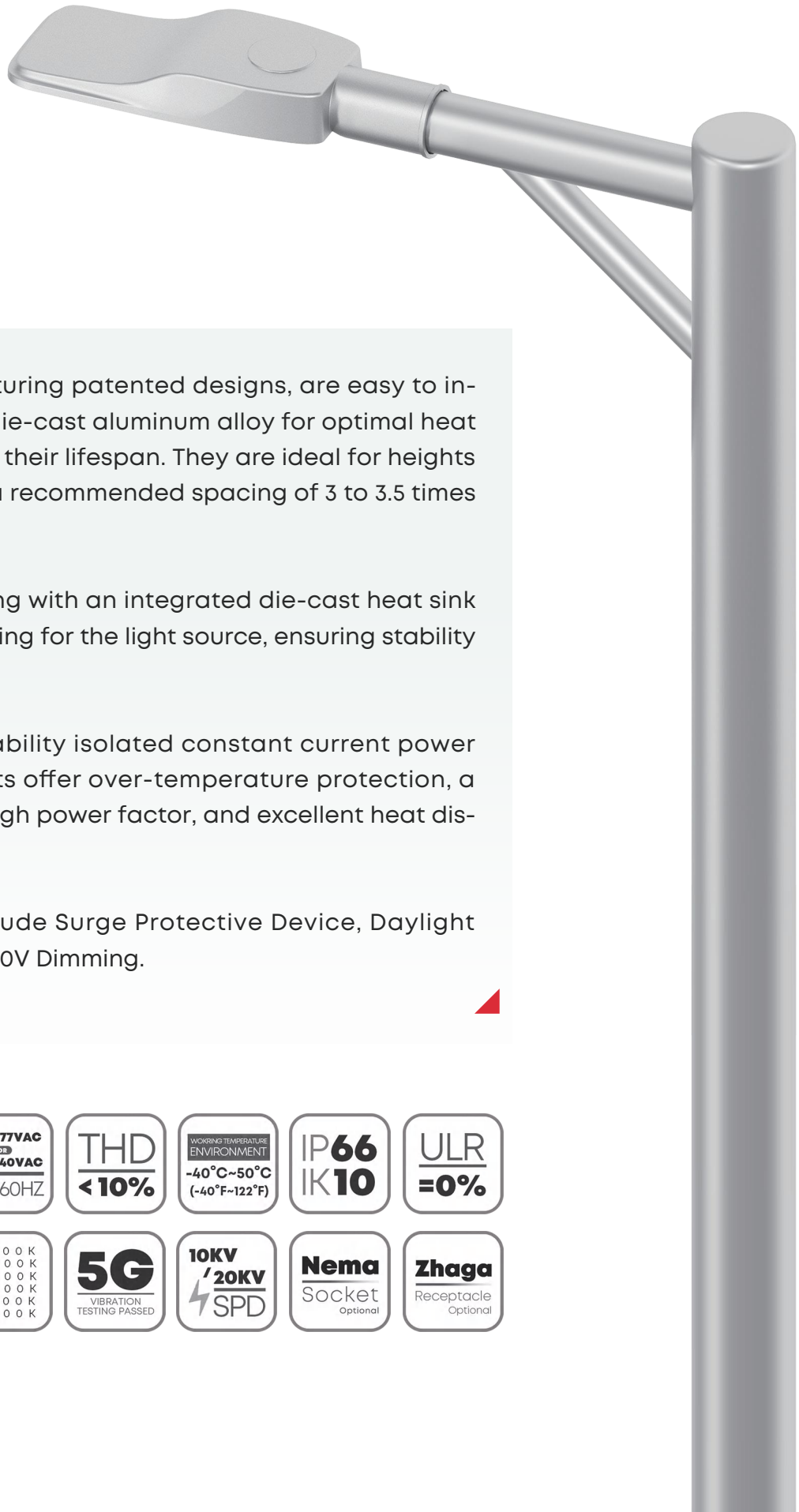
The compact design of the luminaire makes it more robust and more resistant to impact.



● **WARRANTY**

5 Year Limited Warranty,
10 Year Preferred Warranty.

Please consult with our sales for detailed agreement.





• These products, featuring patented designs, are easy to install and made from die-cast aluminum alloy for optimal heat dissipation, extending their lifespan. They are ideal for heights of 4 to 6 meters, with a recommended spacing of 3 to 3.5 times the height.

• Aluminum alloy casing with an integrated die-cast heat sink provides efficient cooling for the light source, ensuring stability and longevity.

• Featuring a high-stability isolated constant current power supply, these products offer over-temperature protection, a wide voltage range, high power factor, and excellent heat dissipation.

• Control options include Surge Protective Device, Daylight Sensor Control, and 1-10V Dimming.

 PATENTED PRODUCT	UP TO 195 lm/W	100-277VAC 220-240VAC 50 / 60HZ	THD <10%	WORKING TEMPERATURE ENVIRONMENT -40°C~50°C (-40°F~122°F)	IP66 IK10	ULR =0%
	CRI Ra70/80/90	2 7 0 0 K 3 0 0 0 K 4 0 0 0 K 5 7 0 0 K 6 5 0 0 K	5G VIBRATION TESTING PASSED	10KV 20KV SPD	Nema Socket Optional	Zhaga Receptacle Optional

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Application Reference

- Road & highway lighting
- Urban road & street lighting
- Residential area lighting
- Parks & perimeter lighting
- Parking lot lighting
- Riverside & jogging track



Parameter Table

Electrical Data						
Model		AOK-20WILF	AOK-30WILF	AOK-40WILF	AOK-50WILF	AOK-60WILF
Input Voltage		100-277VAC / 220-240VAC				
THD (220Vac)		≤10%				
PF (220Vac)		≥0.95				
Driver		Class I (MOSO/SOSEN/Inventronics), Class II (DONE)				
Operating Temperature		-40°C to 50°C (-40 °F to 122 °F)				
Control Option		DALI, 1-10V, PWM, timer dimming				
Surge Protection		10kV / 20kV optional				
Photometric Data						
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T2(70°150°)	164lm/W	161lm/W	152lm/W	145lm/W	140lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T2(70°150°)	3280lm	4830lm	6080lm	7250lm	8400lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T2(70°150°)	167lm/W	163lm/W	157lm/W	153lm/W	150lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T2(70°150°)	3340lm	4890lm	6280lm	7650lm	9000lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	195lm/W	193lm/W	192lm/W	191lm/W	188lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	3900lm	5790lm	7680lm	9550lm	11280lm
ULR		= 0%, @ Luminaire inclination 0°				
CCT		2700K, 3000K, 4000K, 5000K, 5700K, 6500K				
CRI		70Ra, 80Ra, 90Ra optional				
Beam Angle		Type II (70°150°), Customization acceptable				
LED Manufacturer		Other brands, customization acceptable, please request				
LED Model		2835 / 3030 / 5050				
Lens		Polycarbonate				
Mechanical Data						
IP/IK		Optical systems maintain at IP66, IK10, according to standard EN 60529 and EN 62262				
Vibration Resistance		5G rated, conform to standard IEC 68-2-6.				
SCx		0.05m² (top view), 0.019m² (side view)				
Materials		Heavy-duty die-cast aluminum (ADC12)				
Painting		RAL 9005 Black, RAL 9006 Silver, RAL 9007gray, Custom request				
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).				
Cable		Pre-wired with a 30 cm cable (Other lengths on request)				
Mounting		Side entry, (Φ42~60mm pole), custom request				
Others						
Lifespan		L70 > 100000hrs, @Ta 25°C				
Warranty		5 years (Warranty extension up to 10 years on request)				
Certification		CE,RoHS,For other certificates please request				
Product Size		427*150*73mm/16.81*5.91*2.87"				
Net Weight		1.9kg/4.19lbs				
Carton Size & Gross Weight (standard)		450*160*110mm/17.72*6.3*4.33" , 2.2KG/4.85lbs				
Carton Size & Gross Weight (optional)		480*195*115mm/18.9*7.68*4.53" , 2.4KG/5.29lbs				
Recommend Installation Height		General 4-6m, based on actual project requirements				
Standard Accessories		None				
Optional Accessories		10kV/20kV SPD, breather vent, NEMA socket, Photocell, Zhaga, PIR or Microwave sensor, M20 waterproof joint				

Important Note!

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Parameter Table

Electrical Data					
Model		AOK-70WiLF	AOK-80WiLF	AOK-90WiLF	AOK-100WiLF
Input Voltage		100-277VAC / 220-240VAC			
THD (220Vac)		≤10%			
PF (220Vac)		≥0.95			
Driver		Class I (MOSO/SOSEN/Inventronics), Class II (DONE)			
Operating Temperature		-40°C to 50°C (-40 °F to 122 °F)			
Control Option		DALI, 1-10V, PWM, timer dimming			
Surge Protection		10kV / 20kV optional			
Photometric Data					
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T2(70°150°)	148lm/W	145lm/W	142lm/W	140lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T2(70°150°)	10360lm	11600lm	12780lm	14000lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T2(70°150°)	156lm/W	154lm/W	152lm/W	150lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T2(70°150°)	10920lm	12320lm	13680lm	15000lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	191lm/W	190lm/W	189lm/W	188lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	13370lm	15200lm	17010lm	18800lm
ULR		= 0%, @ Luminaire inclination 0°			
CCT		2700K, 3000K, 4000K, 5000K, 5700K, 6500K			
CRI		70Ra, 80Ra, 90Ra optional			
Beam Angle		Type II (70°150°), Customization acceptable			
LED Manufacturer		Other brands, customization acceptable, please request			
LED Model		2835 / 3030 / 5050			
Lens		Polycarbonate			
Mechanical Data					
IP/IK		Optical systems maintain at IP66, IK10, according to standard EN 60529 and EN 62262			
Vibration Resistance		5G rated, conform to standard IEC 68-2-6.			
SCx		0.07m² (top view), 0.02m² (side view)			
Materials		Heavy-duty die-cast aluminum (ADC12)			
Painting		RAL 9005 Black, RAL 9006 Silver, RAL 9007gray, Custom request			
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).			
Cable		Pre-wired with a 30 cm cable (Other lengths on request)			
Mounting		Side entry, (Φ42~60mm pole), custom request			
Others					
Lifespan		L70 > 100000hrs, @Ta 25°C			
Warranty		5 years (Warranty extension up to 10 years on request)			
Certification		CE,RoHS,For other certificates please request			
Product Size		477*190*74mm/18.78*7.48*2.91"			
Net Weight		2.7KG/5.95lbs			
Carton Size & Gross Weight (standard)		500*200*110mm/19.69*7.87*4.33" , 3.1KG/6.83lbs			
Carton Size & Gross Weight (optional)		530*235*115mm/20.87*9.25*4.53" , 3.2KG/7.05lbs			
Recommend Installation Height		General 4-6m, based on actual project requirements			
Standard Accessories		None			
Optional Accessories		10kV/20kV SPD, breather vent, NEMA socket, Photocell, Zhaga, PIR or Microwave sensor, M20 waterproof joint			

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Parameter Table

Electrical Data						
Model	AOK-110WILF	AOK-120WILF	AOK-130WILF	AOK-140WILF	AOK-150WILF	
Input Voltage	100-277VAC / 220-240VAC					
THD (220Vac)	≤10%					
PF (220Vac)	≥0.95					
Driver	Class I (MOSO/BOSEN/Inventronics), Class II (DONE)					
Operating Temperature	-40°C to 50°C (-40 °F to 122 °F)					
Control Option	DALI, 1-10V, PWM, timer dimming					
Surge Protection	10kV / 20kV optional					
Photometric Data						
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301(80°150°)	147lm/W	145lm/W	143lm/W	142lm/W	140lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301(80°150°)	16170lm	17400lm	18590lm	19880lm	21000lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301(80°150°)	157lm/W	155lm/W	153lm/W	152lm/W	150lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301(80°150°)	17270lm	18600lm	19890lm	21280lm	22500lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	192lm/W	191lm/W	190lm/W	189lm/W	188lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	21120lm	22920lm	24700lm	26460lm	28200lm
ULR	= 0%, @ Luminaire inclination 0°					
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K					
CRI	70Ra, 80Ra, 90Ra optional					
Beam Angle	T301(80°150°), Customization acceptable					
LED Manufacturer	Other brands, customization acceptable, please request					
LED Model	2835 / 3030 / 5050					
Lens	Polycarbonate					
Mechanical Data						
IP/IK	Optical systems maintain at IP66, IK10, according to standard EN 60529 and EN 62262					
Vibration Resistance	5G rated, conform to standard IEC 68-2-6.					
SCx	0.11m² (top view), 0.024m² (side view)					
Materials	Heavy-duty die-cast aluminum (ADC12)					
Painting	RAL 9005 Black, RAL 9006 Silver, RAL 9007gray, Custom request					
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).					
Cable	Pre-wired with a 50 cm cable (Other lengths on request)					
Mounting	Side entry, (Φ42~60mm pole), custom request					
Others						
Lifespan	L70 > 100000hrs, @Ta 25°C					
Warranty	5 years (Warranty extension up to 10 years on request)					
Certification	CE,RoHS,For other certificates please request					
Product Size	562*240*72mm/21.13*9.45*2.83"					
Carton Size	610*290*125mm/24.02*11.42*4.92"					
Net Weight	3.7kg/8.16lbs					
Gross Weight	4.9kg/10.80lbs					
Recommend Installation Height	General 4-6m, based on actual project requirements					
Standard Accessories	None					
Optional Accessories	10kV/20kV SPD, breather vent, NEMA socket, Photocell, Zhaga, PIR or Microwave sensor, M20 waterproof joint					

Important Note!

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Parameter Table

Electrical Data					
Model		AOK-160WiLF	AOK-170WiLF	AOK-180WiLF	AOK-190WiLF
Input Voltage		100-277VAC / 220-240VAC			
THD (220Vac)		≤10%			
PF (220Vac)		≥0.95			
Driver		Class I (MOSO/SOSEN/Inventronics), Class II (DONE)			
Operating Temperature		-40°C to 50°C (-40 °F to 122 °F)			
Control Option		DALI, 1-10V, PWM, timer dimming			
Surge Protection		10kV / 20kV optional			
Photometric Data					
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301 (65°150°)	147lm/W	146lm/W	145lm/W	144lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301 (65°150°)	23520lm	24820lm	26100lm	27360lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301 (65°150°)	157lm/W	156lm/W	155lm/W	154lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301 (65°150°)	25120lm	26520lm	27900lm	29260lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	195lm/W	194lm/W	193lm/W	192lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	31200lm	32980lm	34740lm	36480lm
ULR		= 0%, @ Luminaire inclination 0°			
CCT		2700K, 3000K, 4000K, 5000K, 5700K, 6500K			
CRI		70Ra, 80Ra, 90Ra optional			
Beam Angle		T301 (65°150°), Customization acceptable			
LED Manufacturer		Other brands, customization acceptable, please request			
LED Model		2835 / 3030 / 5050			
Lens		Polycarbonate			
Mechanical Data					
IP/IK		Optical systems maintain at IP66, IK10, according to standard EN 60529 and EN 62262			
Vibration Resistance		5G rated, conform to standard IEC 68-2-6.			
SCx		0.14m² (top view), 0.027m² (side view)			
Materials		Heavy-duty die-cast aluminum (ADC12)			
Painting		RAL 9005 Black, RAL 9006 Silver, RAL 9007gray, Custom request			
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).			
Cable		Pre-wired with a 50 cm cable (Other lengths on request)			
Mounting		Side entry, (Φ42~60mm pole), custom request			
Others					
Lifespan		L70 > 100000hrs, @Ta 25°C			
Warranty		5 years (Warranty extension up to 10 years on request)			
Certification		CE,RoHS,For other certificates please request			
Product Size		617*280*73mm/24.29*9.86*2.87"			
Carton Size		665*330*130mm/26.18*12.99*5.13"			
Net Weight		4.8kg/10.58lbs			
Gross Weight		6.3kg/13.89lbs			
Recommend Installation Height		General 4-6m, based on actual project requirements			
Standard Accessories		None			
Optional Accessories		10kV/20kV SPD, breather vent, NEMA shocket, Photocell, Zhaga, PIR or Microwave sensor, M20 waterproof joint			

Important Note!

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Parameter Table

Electrical Data					
Model		AOK-200WiLF	AOK-210WiLF	AOK-220WiLF	AOK-230WiLF
Input Voltage		100-277VAC / 220-240VAC			
THD (220Vac)		≤10%			
PF (220Vac)		≥0.95			
Driver		Class I (MOSO/SOSEN/Inventronics), Class II (DONE)			
Operating Temperature		-40°C to 50°C (-40 °F to 122 °F)			
Control Option		DALI, 1-10V, PWM, timer dimming			
Surge Protection		10kV / 20kV optional			
Photometric Data					
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301 (65°*150°)	143lm/W	142lm/W	141lm/W	140lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Normal	T301 (65°*150°)	28600lm	29820lm	31020lm	32200lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301 (65°*150°)	153lm/W	152lm/W	151lm/W	150lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-Performance	T301 (65°*150°)	30600lm	31920lm	33220lm	34500lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	191lm/W	190lm/W	189lm/W	188lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050-Pro	T3	38200lm	39900lm	41580lm	43240lm
ULR		= 0%, @ Luminaire inclination 0°			
CCT		2700K, 3000K, 4000K, 5000K, 5700K, 6500K			
CRI		70Ra, 80Ra, 90Ra optional			
Beam Angle		T301 (65°*150°), Customization acceptable			
LED Manufacturer		Other brands, customization acceptable, please request			
LED Model		2835 / 3030 / 5050			
Lens		Polycarbonate			
Mechanical Data					
IP/IK		Optical systems maintain at IP66, IK10, according to standard EN 60529 and EN 62262			
Vibration Resistance		5G rated, conform to standard IEC 68-2-6.			
SCx		0.14m² (top view), 0.027m² (side view)			
Materials		Heavy-duty die-cast aluminum (ADC12)			
Painting		RAL 9005 Black, RAL 9006 Silver, RAL 9007gray, Custom request			
Surface Treatment		Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).			
Cable		Pre-wired with a 50 cm cable (Other lengths on request)			
Mounting		Side entry, (Φ42~60mm pole), custom request			
Others					
Lifespan		L70 > 100000hrs, @Ta 25°C			
Warranty		5 years (Warranty extension up to 10 years on request)			
Certification		CE,RoHS,For other certificates please request			
Product Size		617*280*73mm/24.29*9.86*2.87"			
Carton Size		665*330*130mm/26.18*12.99*5.13"			
Net Weight		4.8kg/10.58lbs			
Gross Weight		6.3kg/13.89lbs			
Recommend Installation Height		General 4-6m, based on actual project requirements			
Standard Accessories		None			
Optional Accessories		10kV/20kV SPD, breather vent, NEMA shocket, Photocell, Zhaga, PIR or Microwave sensor, M20 waterproof joint			

Important Note!

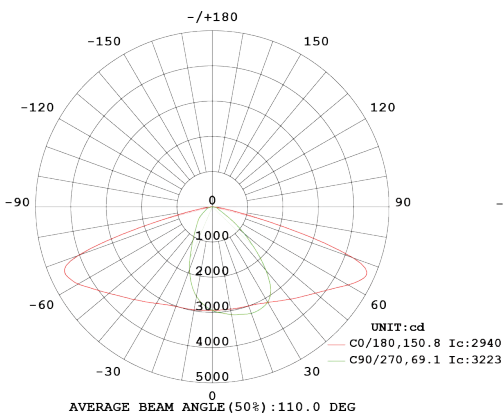
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Ordering Information

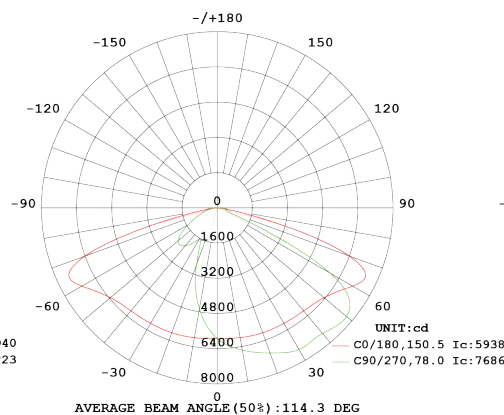
AOK								
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING	OPTIONS
20WILF	NV1=100-277V	A2=2835	00=Without Sensor	2770=2700K 70CRI	T2=Type II (70°*150°)	A=Side Entry	SL=Silver	10KV SPD
30WILF	NV2=220-240V	A3=3030	PH=Photocell	3070=3000K 70CRI	20-100W		BK=Black	20KV SPD
40WILF		A5=5050	DV=Dimmable	4070=4000K 70CRI			GR=Gray	Zhaga receptacle
50WILF				5070=5000K 70CRI	T301 (80°*150°)		Custom request	Nema socket
60WILF				5770=5700K 70CRI	110-150W			Custom request
70WILF				6570=6500K 70CRI				
80WILF				2780=2700K 80CRI	T301 (65°*150°)			
90WILF				3080=3000K 80CRI	160-230W			
100WILF				4080=4000K 80CRI				
110WILF				5080=5000K 80CRI				
120WILF				5780=5700K 80CRI				
130WILF				6580=6500K 80CRI				
140WILF								
150WILF								
160WILF								
170WILF								
180WILF								
190WILF								
200WILF								
210WILF								
220WILF								
230WILF								

Photometrics

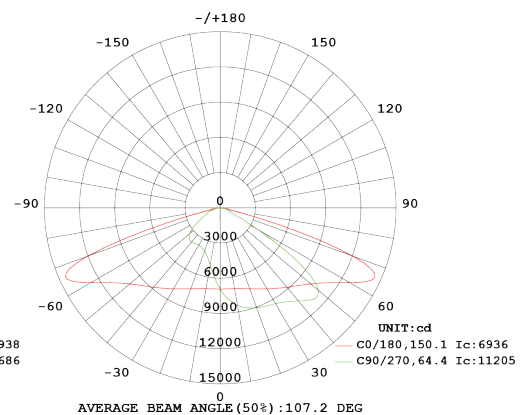
· Adopt Lumileds or other famous brands light source, which has high brightness, small light attenuation and longer service life.



20-100W
Type II (70°*150°)

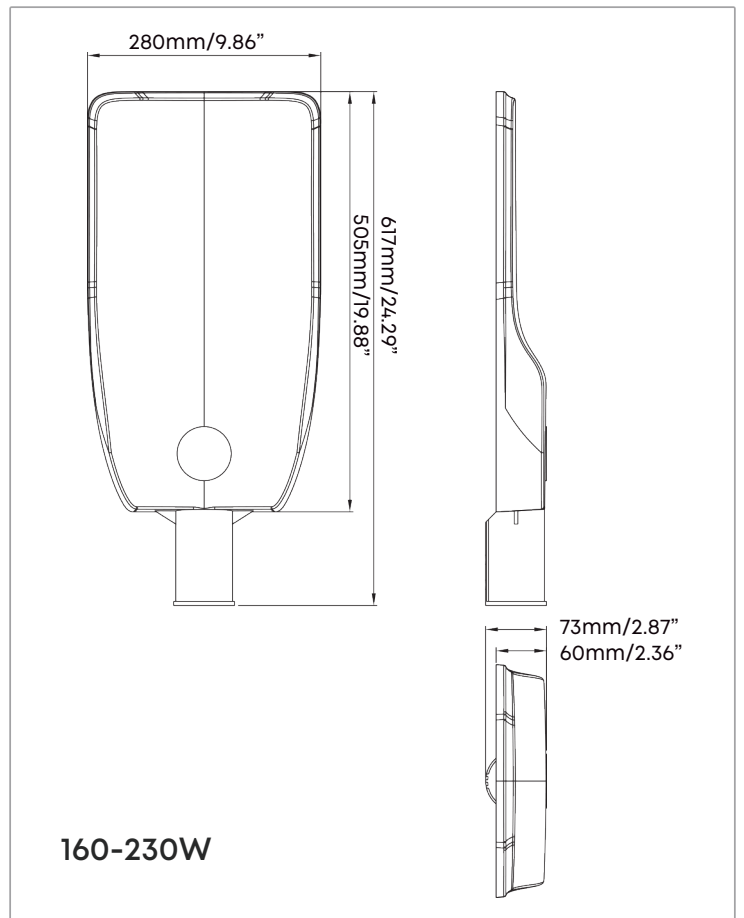
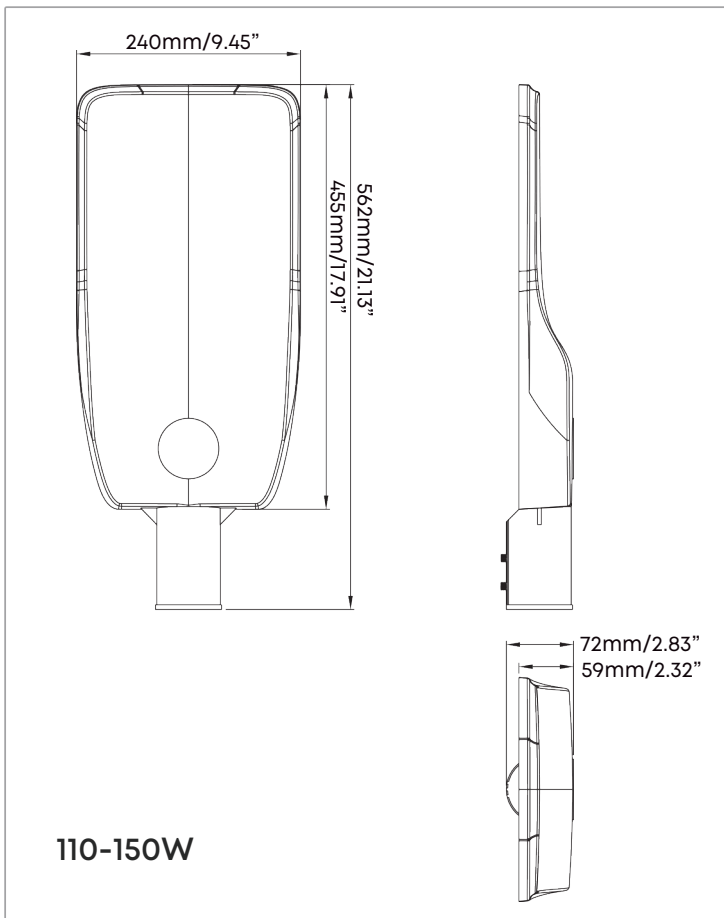
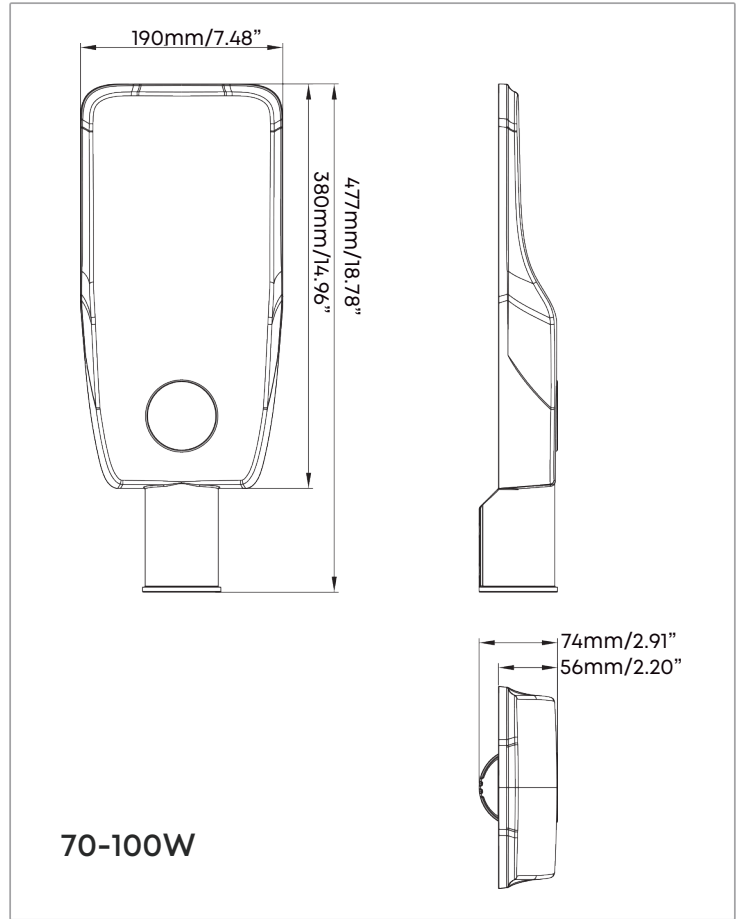
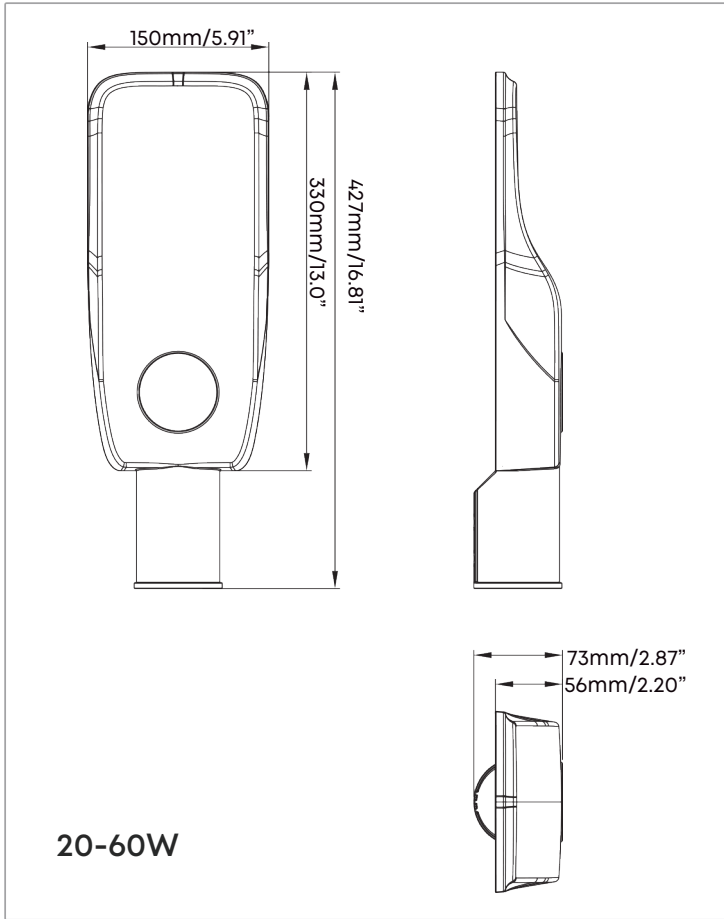


110-150W
T301(80°*150°)



160-230W
T301(65°*150°)

Dimension





Innovative & Tailored Lighting Solutions for **Success**



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