

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



IK02 Series LED Street Light

Power: 20W - 180W



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

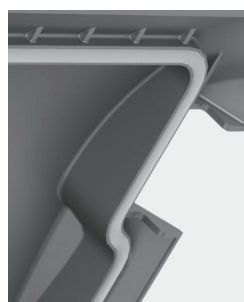
Cost Savings in **Maintenance & Recycling**

IK02 is **connected-ready** and can operate with various sensors and control systems

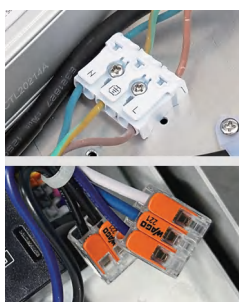
The fixture can be equipped with two Zhaga Sockets on both the top and bottom sides.



· Dual-layer structure design, enhanced water resistance.



· High quality silicone gasket, improved sealing performance.



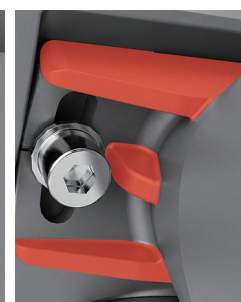
· High-quality terminal wiring ensures reliability and safety. (Optional)



· High-quality AC power interface, safe and reliable. (Optional)



· Adjustable bracket ± 20 degrees.



· Reinforced bracket design, increased safety.



WARRANTY

5 Year Limited Warranty,
10 Year Preferred Warranty.
Please consult with our sales for detailed agreement.

- Precision engineered individual lenses made of optical grade Mitsubishi polycarbonate for maximum light intensity.
- Micro-lens systems produce IESNA Type II, Type III, Type IV, Type V distributions. Luminaries produces 0% total lumens above 90 ° (BUG Rating, U=0). Delivers improved visual comfort by lower glare and providing a wider smoother and more uniform light output.
- Optical systems maintain an IP66 rating.
- Available in 2700K, 3000K, 4000K, 5000K, 5700K, 6500K CCT.
- Cutoff classification: Cutoff, no up light pollution.
- Minimum CRI of 70, 80, and 90 optional.
- With Tempered Glass cover.
- Rugged, weather-tight design and 3G Vibration ratings ensure durability even in harsh environments.

Benefits for choosing IK02

• Compact Design

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

• Light Weight

Lightweight & economically practical.

• Bracket Adjustable

The bracket is adjustable within a range of $\pm 20^\circ$.

• Convenient Upgrade

Reserved controller base installation port for convenient upgrades.

• Self-Clean Cover

Self-cleaning smooth back cover design.

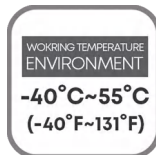
• Fuse Holder & Fuse Optional

Facilitating maintenance and troubleshooting.

Animals & Insects Friendly
2200K-2700K
CCT available



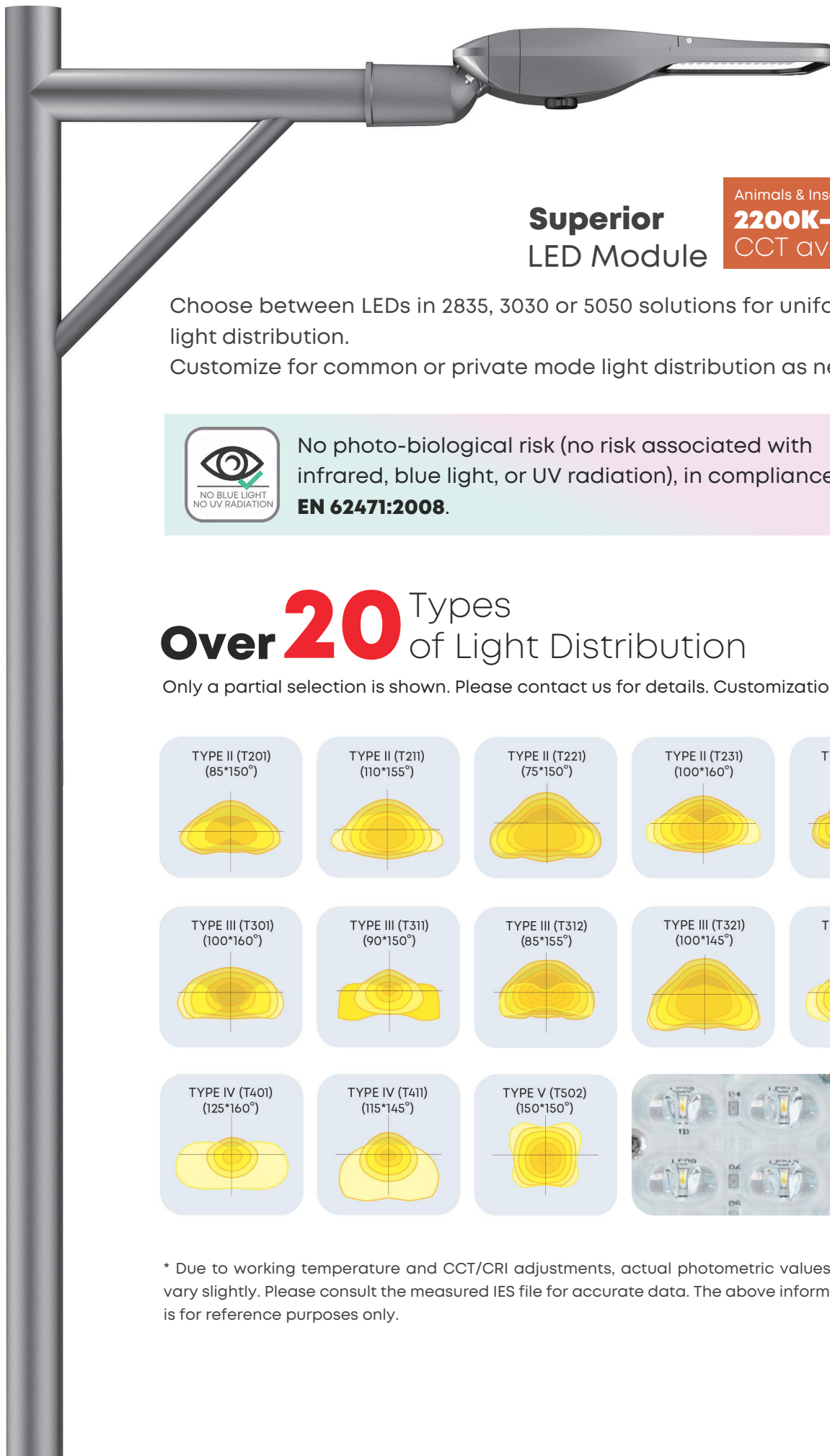
No photo-biological risk (no risk associated with infrared, blue light, or UV radiation), in compliance with **EN 62471:2008**.



wally@akledlight.com
+1 626-986-4050 (US)
+86 755 2357 9148 (CN)

©2026 AOK Industrial Company Limited. All Right Reserved.





Superior LED Module

Animals & Insects Friendly
2200K-2700K
CCT available

Choose between LEDs in 2835, 3030 or 5050 solutions for uniform street light distribution.

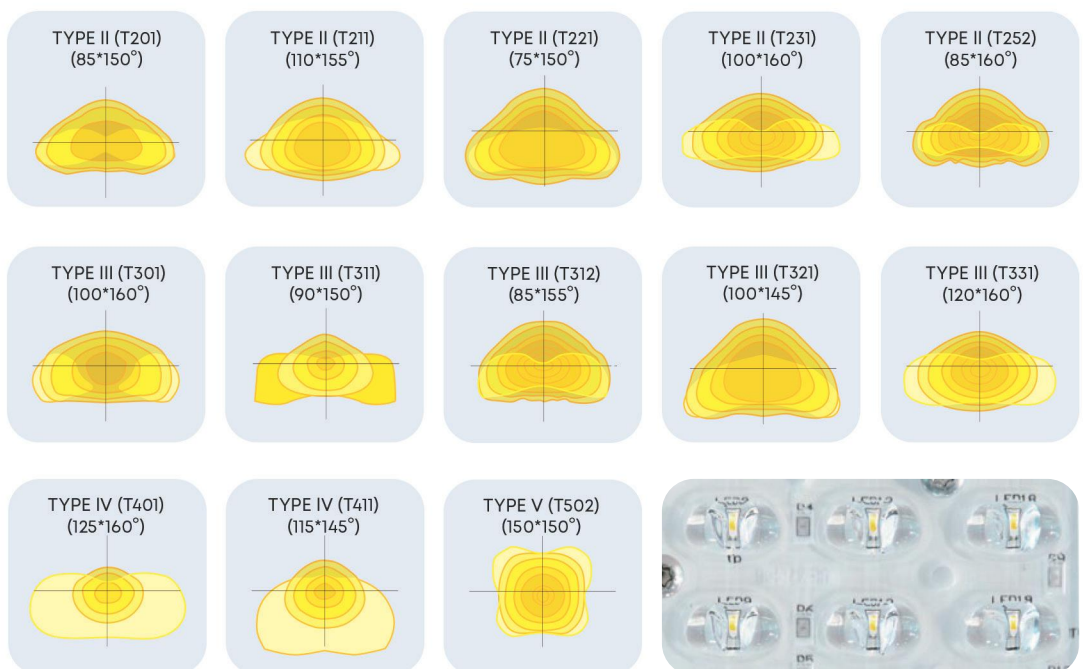
Customize for common or private mode light distribution as needed.



No photo-biological risk (no risk associated with infrared, blue light, or UV radiation), in compliance with
EN 62471:2008.

Over **20** Types of Light Distribution

Only a partial selection is shown. Please contact us for details. Customization available.



* Due to working temperature and CCT/CRI adjustments, actual photometric values may vary slightly. Please consult the measured IES file for accurate data. The above information is for reference purposes only.

Features of **IK02** Series



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-iK02(XS)-(20-40W)			
Power	20W		30W	40W
Input Voltage	100-277VAC / 220-240VAC			
THD (220Vac)	≤10%			
PF (220Vac)	≥0.95			
Driver	(Sosen、Inventronics、Moso)/Class 1, (Sosen、DONE)/Class 1、Class 2			
Operating Temperature	-40°C to 55°C (-40 °F to 131 °F)			
Control Option	DALI-2, D4i,0/1-10V, PWM, timer dimming			
Surge Protection	10kV / 20kV optional			
Photometric Data				
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	173lm/W	170lm/W	170lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	3460lm	5100lm	6800lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	183lm/W	180lm/W	180lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	3660lm	5400lm	7200lm
ULR	= 0%, @ Luminaire inclination 0°			
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K			
CRI	70Ra, 80Ra, 90Ra optional			
Beam Angle	Type-II (85°150°,110°155°, 75°150°, 100°160°, 85°160°) / Type III (100°160°, 90°150°, 85°155°,100°145°, 120°160°) / Type IV (125°160°, 115°145°)/Type V (150°150°), customization acceptable, please request			
LED Manufacturer	Other brands, customization acceptable, please request			
LED Model	2835 / 3030 / 5050			
Lens	Polycarbonate+tempered glass(4/5 mm thick)			
Mechanical Data				
IP/IK	Optical systems maintain at IP66, IK08/IK09, according to standard EN 60529 and EN 62262			
Vibration Resistance	3G rated, conform to standard IEC 68-2-6.			
SCx	0.073m² (top view), 0.028m² (side view)			
Materials	Heavy-duty die-cast aluminum (ADC12)			
Painting	RAL9007 gray , 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/Post Top, (Φ42~60mm pole, ±20° adjustable), custom request			
Others				
Lifespan	L70 > 100000hrs, @Ta 25°C			
Warranty	5 years (Warranty extension up to 10 years on request)			
Product Size	470*180*116mm/18.5*7.09*4.57"			
Net Weight	2.5kg/5.51lbs			
Standard Package Size	520*230*160mm/20.47*9.06*6.3"			
Gross Weight	3KG/6.61lbs			
Recommend Installation Height	General 4-12m, based on actual project requirements			
Standard Accessories	None			
Optional Accessories	10KV/20KV SPD、NEMA (Socket, Shorting Cap, Photocell)、Zhaga(Socket,Photocell/Microwave/PIR Sensor)、Lid Support、Frame、Breather Vent、Zhaga LED Board、Tempered Glass (4/5 mm thick)、Fuse Holder+Fuse			
Important Note!	The provided parameters are solely for design reference; the official measurement report holds higher and final authority.			

Parameter Table

Electrical Data					
Model	AOK-ik02(S)-(50-80W)				
Power	50W	60W	70W	80W	
Input Voltage	100-277VAC / 220-240VAC				
THD (220Vac)	≤10%				
PF (220Vac)	≥0.95				
Driver	(Sosen、Inventronics、Moso)/Class 1,(Sosen、DONE)/Class 1、Class 2				
Operating Temperature	-40°C to 55°C (-40 °F to 131 °F)				
Control Option	DALI-2, D4i,0/1-10V, PWM, timer dimming				
Surge Protection	10kV / 20kV optional				
Photometric Data					
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	173lm/W	172lm/W	170lm/W	168lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	8650lm	10320lm	11900lm	13440lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	182lm/W	182lm/W	180lm/W	178lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	9100lm	10920lm	12600lm	14240lm
ULR	= 0%, @ Luminaire inclination 0°				
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K				
CRI	70Ra, 80Ra, 90Ra optional				
Beam Angle	Type-II (85°150°,110°155°, 75°150°, 100°160°, 85°160°) / Type III (100°160°, 90°150°, 85°155°,100°145°, 120°160°) / Type IV (125°160°, 115°145°)/Type V (150°150°), customization acceptable, please request				
LED Manufacturer	Other brands, customization acceptable, please request				
LED Model	2835 / 3030 / 5050				
Lens	Polycarbonate+tempered glass(4/5 mm thick)				
Mechanical Data					
IP/IK	Optical systems maintain at IP66, IK08/IK09, according to standard EN 60529 and EN 62262				
Vibration Resistance	3G rated, conform to standard IEC 68-2-6.				
SCx	0.097m² (top view), 0.031m² (side view)				
Materials	Heavy-duty die-cast aluminum (ADC12)				
Painting	RAL9007 gray , 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/Post Top, (Φ42~60mm pole, ±20° adjustable), custom request				
Others					
Lifespan	L70 > 100000hrs, @Ta 25°C				
Warranty	5 years (Warranty extension up to 10 years on request)				
Product Size	555*200*116mm/21.85*7.87*4.57"				
Net Weight	3.4kg/7.5lbs				
Standard Package Size	605*250*160mm/23.82*9.45*6.3"				
Gross Weight	4.2KG/9.26lbs				
Recommend Installation Height	General 4-12m, based on actual project requirements				
Standard Accessories	None				
Optional Accessories	10KV/20KV SPD、NEMA (Socket, Shorting Cap, Photocell)、Zhaga(Socket,Photocell/Microwave/PIR Sensor)、Lid Support、Frame、Breather Vent、Zhaga LED Board,Tempered Glass (4/5 mm thick)、Fuse Holder+Fuse				
Important Note!	The provided parameters are solely for design reference; the official measurement report holds higher and final authority.				

Parameter Table

Electrical Data					
Model	AOK-iK02(M)-(90-120W)				
Power	90W	100W	110W	120W	
Input Voltage	100-277VAC / 220-240VAC				
THD (220Vac)	≤10%				
PF (220Vac)	≥0.95				
Driver	(Sosen、Inventronics、Moso)/Class 1, (Sosen、DONE)/Class 1、Class 2			(Sosen、Inventronics、Moso) /Class 1, Sosen/Class 1、Class 2	
Operating Temperature	-40°C to 55°C (-40 °F to 131 °F)		-40°C to 50°C (-40 °F to 122 °F)		
Control Option	DALI-2, D4i,0/1-10V, PWM, timer dimming				
Surge Protection	10kV / 20kV optional				
Photometric Data					
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	173lm/W	172lm/W	170lm/W	168lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)	T2(100°160°)	15570lm	17200lm	18700lm	20160lm
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	183lm/W	182lm/W	180lm/W	178lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050	T2(85°160°)	16470lm	18200lm	19800lm	21360lm
ULR	= 0%, @ Luminaire inclination 0°				
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K				
CRI	70Ra, 80Ra, 90Ra optional				
Beam Angle	Type-II (85°150°,110°155°, 75°150°, 100°160°, 85°160°) / Type III (100°160°, 90°150°, 85°155°,100°145°, 120°160°) / Type IV (125°160°, 115°145°)/Type V (150°150°), customization acceptable, please request				
LED Manufacturer	Other brands, customization acceptable, please request				
LED Model	2835 / 3030 / 5050				
Lens	Polycarbonate+tempered glass(4/5 mm thick)				
Mechanical Data					
IP/IK	Optical systems maintain at IP66, IK08/IK09, according to standard EN 60529 and EN 62262				
Vibration Resistance	3G rated, conform to standard IEC 68-2-6.				
SCx	0.11m² (top view), 0.031m² (side view)				
Materials	Heavy-duty die-cast aluminum (ADC12)				
Painting	RAL9007 gray , 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/Post Top, (Φ42-60mm pole, ±20° adjustable), custom request				
Others					
Lifespan	L70 > 100000hrs, @Ta 25°C				
Warranty	5 years (Warranty extension up to 10 years on request)				
Product Size	555*220*116mm/21.85*8.66*4.57"				
Net Weight	3.8kg/8.38lbs				
Standard Package Size	605*270*160mm/23.82*10.63*6.3"				
Gross Weight	4.8KG/10.58lbs				
Recommend Installation Height	General 4-12m, based on actual project requirements				
Standard Accessories	None				
Optional Accessories	10KV/20KV SPD、NEMA (Socket, Shorting Cap, Photocell)、 Zhaga(Socket,Photocell/Microwave/PIR Sensor)、 Lid Support、Frame、Breather Vent、Zhaga LED Board,Tempered Glass (4/5 mm thick)、Fuse Holder+Fuse				
Important Note!	The provided parameters are solely for design reference; the official measurement report holds higher and final authority.				

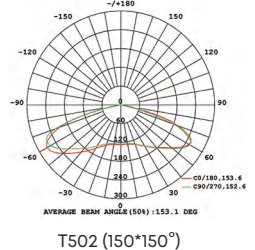
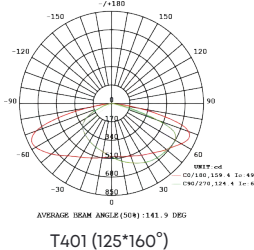
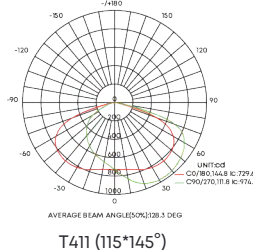
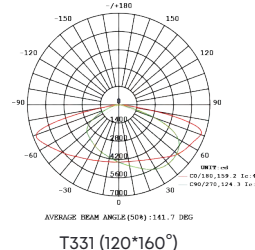
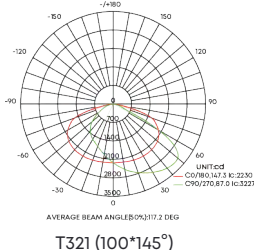
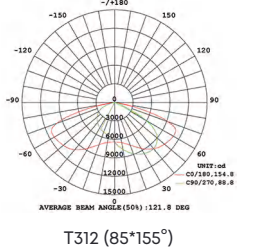
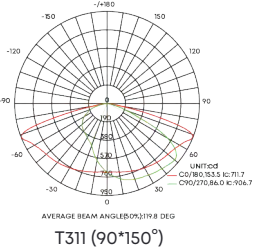
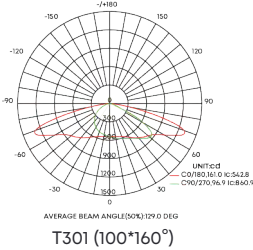
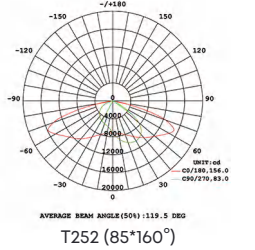
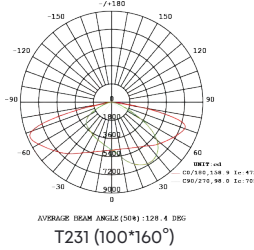
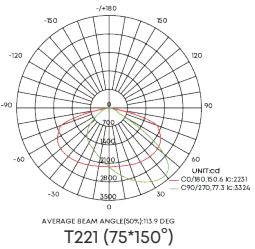
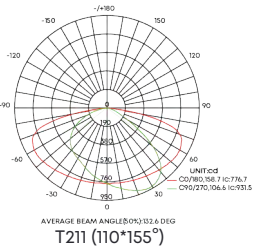
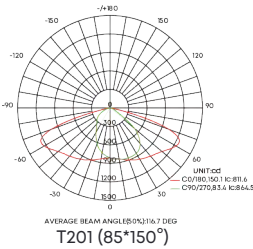
Parameter Table

Electrical Data								
Model		AOK-iK02(L)-(130-180W)						
Power		130W	140W	150W	160W	170W	180W	
Input Voltage		100-277VAC / 220-240VAC						
THD (220Vac)		≤10%						
PF (220Vac)		≥0.95						
Driver		(Sosen、Inventronics、Moso)/Class 1, (Sosen、DONE)/Class 1、Class 2				(Sosen、Inventronics、Moso)/Class 1, (MOSO)/Class 1、Class 2		
Operating Temperature		-40°C to 55°C (-40 °F to 131 °F)		-40°C to 50°C (-40 °F to 122 °F)		-40°C to 45°C (-40 °F to 113 °F)		
Control Option		DALI-2, D4i,0/1-10V, PWM, timer dimming						
Surge Protection		10kV / 20kV optional						
Photometric Data								
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)		T2(100°160°)	172lm/W	171lm/W	170lm/W	168lm/W	-	-
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)		T2(100°160°)	22360lm	23940lm	25500lm	26880lm	-	-
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050		T2(85°160°)	182lm/W	181lm/W	180lm/W	178lm/W	176lm/W	174lm/W
Luminous Flux (lm) (CRI 70Ra, 5000K) (Std Dev ±5%)-5050		T2(85°160°)	23660lm	25340lm	27000lm	28480lm	29920lm	31320lm
ULR		= 0%, @ Luminaire inclination 0°						
CCT		2700K, 3000K, 4000K, 5000K, 5700K, 6500K						
CRI		70Ra, 80Ra, 90Ra optional						
Beam Angle		Type-II (85°150°,110°155°, 75°150°, 100°160°, 85°160°) / Type III (100°160°, 90°150°, 85°155°,100°145°, 120°160°) / Type IV (125°160°, 115°145°)/Type V (150°150°), customization acceptable, please request						
LED Manufacturer		Other brands, customization acceptable, please request						
LED Model		2835 / 3030 / 5050						
Lens		Polycarbonate+tempered glass(4/5 mm thick)						
Mechanical Data								
IP/IK		Optical systems maintain at IP66, IK08/IK09, according to standard EN 60529 and EN 62262						
Vibration Resistance		3G rated, conform to standard IEC 68-2-6.						
SCx		0.12m² (top view), 0.036m² (side view)						
Materials		Heavy-duty die-cast aluminum (ADC12)						
Painting		RAL9007 gray , 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/Post Top, (Φ42~60mm pole, ±20° adjustable), custom request						
Others								
Lifespan		L70 > 100000hrs, @Ta 25°C						
Warranty		5 years (Warranty extension up to 10 years on request)						
Product Size		610*235*116mm/24.02*9.25*4.57"						
Net Weight		4.6kg/10.14lbs						
Standard Package Size		660*285*160mm/25.98*11.22*6.3"						
Gross Weight		5.8KG/12.79lbs						
Recommend Installation Height		General 4-12m, based on actual project requirements						
Standard Accessories		None						
Optional Accessories		10KV/20KV SPD、NEMA (Socket, Shorting Cap, Photocell)、Zhaga(Socket,Photocell/Microwave/PIR Sensor)、Lid Support、Frame、Breather Vent、Zhaga LED Board,Tempered Glass (4/5 mm thick)、Fuse Holder+Fuse						
Important Note!		The provided parameters are solely for design reference; the official measurement report holds higher and final authority.						

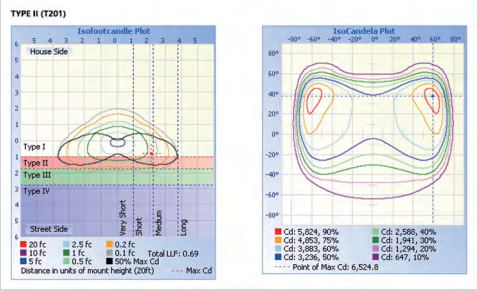
Ordering Information

AOK								
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING	OPTIONS
20WIK02(XS)	NV1=100-277V	A2=2835	00=Without Sensor	xx70=xx00K 70CRI	T201 (85°150°)	A=Side Entry	GR=Gray	10KV SPD
30WIK02(XS)	NV2=220-240V	A3=3030	PH=Photocell	xx80=xx00K 80CRI	T211 (110°155°)	B=Post Top	Custom request	20KV SPD
40WIK02(XS)		A5=5050	DV=Dimmable	xx90=xx00K 90CRI	T221 (75°150°)			Zhaga receptacle
50WIK02(S)				xx=(27/30/40/50/57/65)	T231 (100°160°)			Nema socket
60WIK02(S)					T252 (85°160°)			Custom request
70WIK02(S)					T301 (100°160°)			
80WIK02(S)					T312 (90°150°)			
90WIK02(M)					T321 (85°155°)			
100WIK02(M)					T321 (100°145°)			
110WIK02(M)					T331 (120°160°)			
120WIK02(M)					T401 (125°160°)			
130WIK02(L)					T411 (115°145°)			
140WIK02(L)					T502 (150°150°)			
150WIK02(L)								
160WIK02(L)								
170WIK02(L)								
180WIK02(L)								

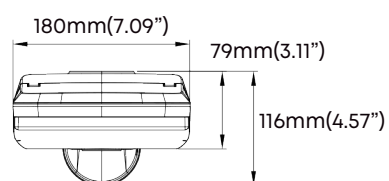
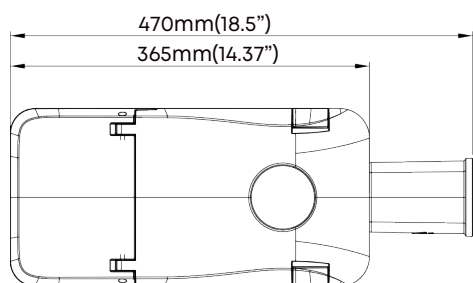
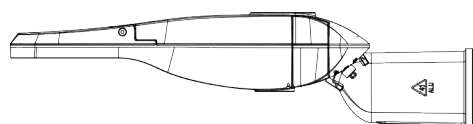
Photometrics



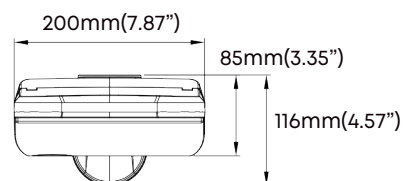
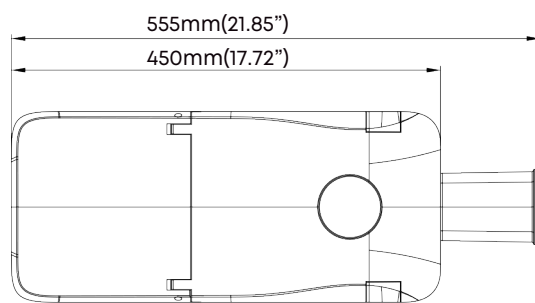
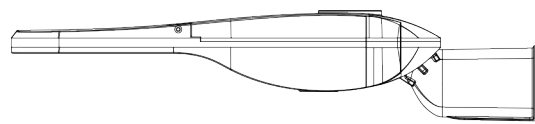
Illuminance Diagram



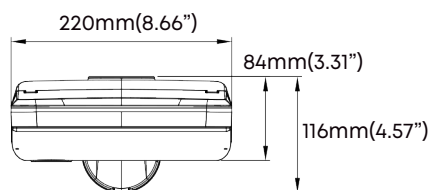
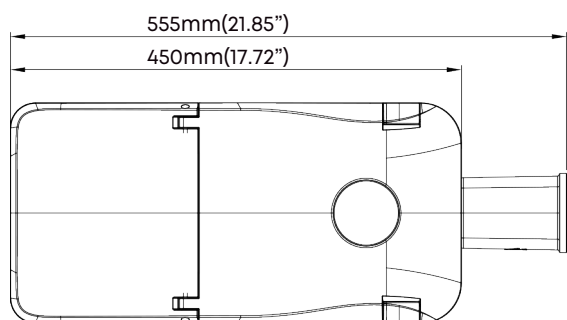
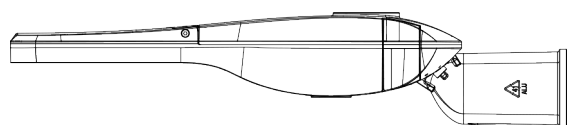
Dimensions



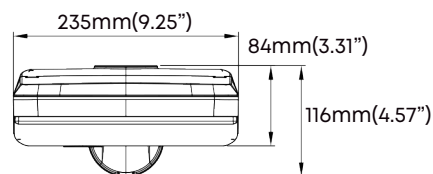
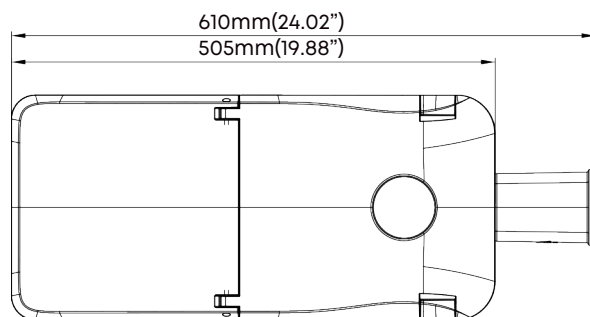
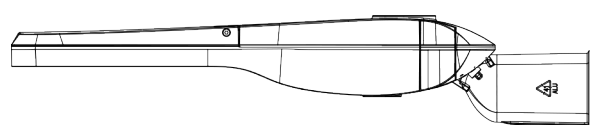
IK02(XS)
20-40W



IK02(S)
50-80W



IK02(M)
90-120W



IK02(L)
130-180W



Innovative & Tailored Lighting Solutions for **Success**



WARRANTY

5 Year Limited Warranty,
10 Year Preferred Warranty.

Please consult with our sales for detailed agreement.

wally@aokledlight.com

www.aokledlight.com

+1 626-986-4050 (US)

+86 755 2357 9148 (CN)

Manufacturing:

Shenzhen:

Building 1 & 4, St. George's Science and Technology Industrial Park, Shajing Street, Shenzhen, China, 518124.

Huizhou:

Building 2, Yinghui Electronic Science and Tech Park, No. 6 Dongsheng North Rd, Chenjiang Street, Zhongkai High-tech Zone, Huizhou, China. 516006.

Fuzhou Office:

Room 301, Yujing Business Center Zone 1, No. 12 Baihuazhou road, Cangshan district, Fuzhou, China, 350007

Copyright ©2026 AOK Industrial Company Limited. All Right Reserved.