



**ILA** LED STREET LIGHT  
POWER: 20W-150W

**HIGH LUMEN OUTPUT**  
**UP TO 24,000LM (150W)**

**100+** Patent Certificates  
**\$1,000,000+** Annual Energy Saving  
**10,000+** Projects Successfully Installed



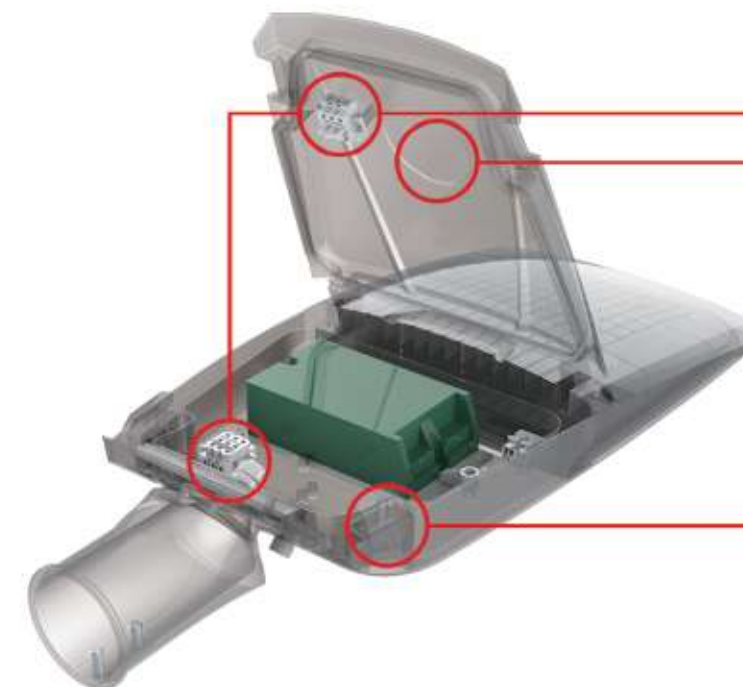
**OVER YEARS**   
**10 EXPERIENCE**  
[www.aokledlight.com](http://www.aokledlight.com)

## > Features of ILA Series

- Power range: from 20W to 150W. Class I/ ClassII
- System efficiency up to 160lm/W, high lumen output, precise light pattern ensures more energy saved.
- Premium optical-grade Mitsubishi polycarbonate lens delivers a high optical efficiency and has superior resistance to age-related deterioration or environmental threats such as heat, cold, sunlight or moisture.
- Micro-lens systems produce IESNA Type II, Type III, Type IV distributions.
- Excellent uniformity and low glare provide maximum comfort and environmental friendliness.
- Optical systems maintain an IP66 rating. With tempered glass cover.
- Available in 2700K, 3000K, 4000K, 5000K, 5700K, 6500K CCT.
- ULOR =0%, no up-light pollution.
- CRI of 70 Ra, 80 Ra, and 90 Ra optional.
- Anti-UV thermosetting polyester finish. Rugged, weather-tight design and 3G Vibration ratings ensure durability even in harsh environments.



Side Entry/Post Top mounting options, adjustable angle: lateral  $\pm 15^\circ$ , Installation on metallic pole  $\Phi 60$  with tilting capability up to 20 degree.



Automatic cut-off of power supply when the cover is opened.

Hole reserved for sensors installation.

Tool-free entrance and installation of driver and components. Easy replacement and maintenance.

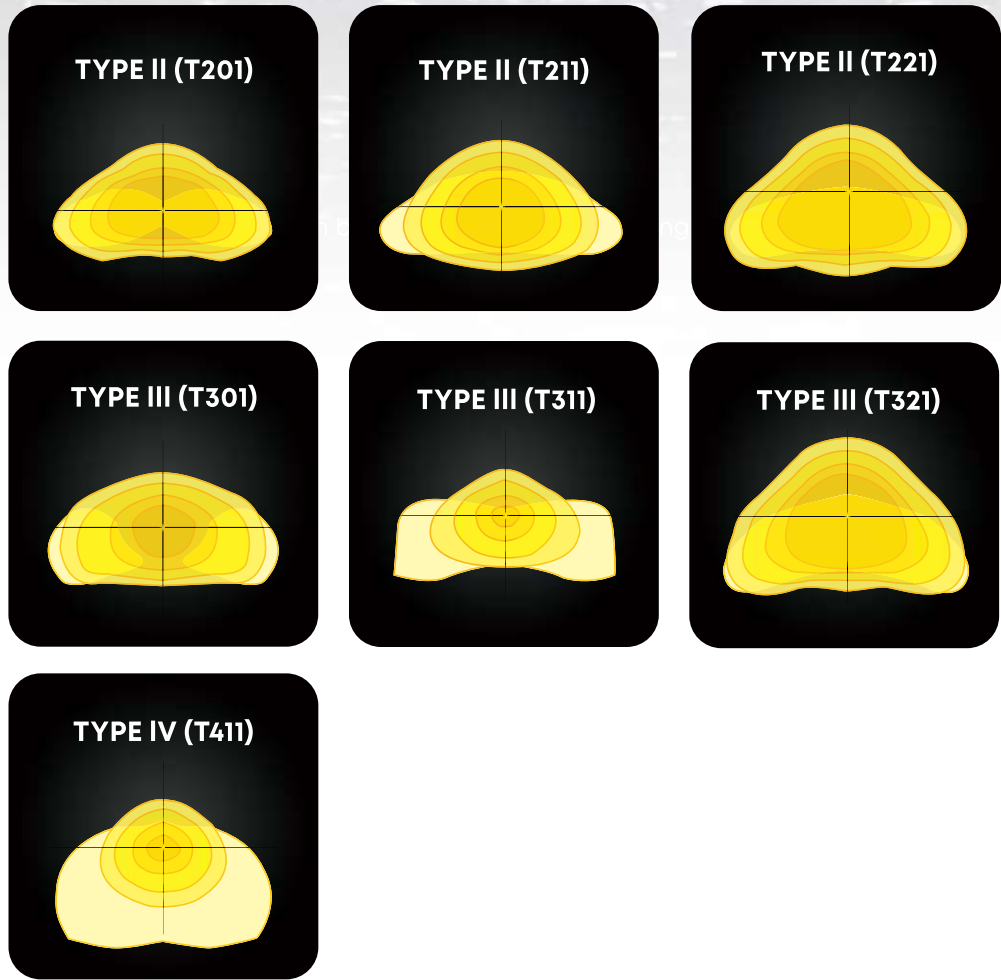


# > Photometric Design

- Premium optical-grade Mitsubishi polycarbonate lens delivers a high optical efficiency and has superior resistance to age-related deterioration or environmental threats such as heat, cold, sunlight or moisture.
- The flux is directed precisely towards the area to be illuminated thanks to the high-level performance of optical system.
- Possibility of lighting management (control, automatic lowering of intensity etc.).
- Excellent uniformity and low glare provide maximum comfort and environmental friendliness.

## Distribution Type

Asymmetric, Type II can be used in long and narrow aisles/lanes/sidewalks.



LED Light Source



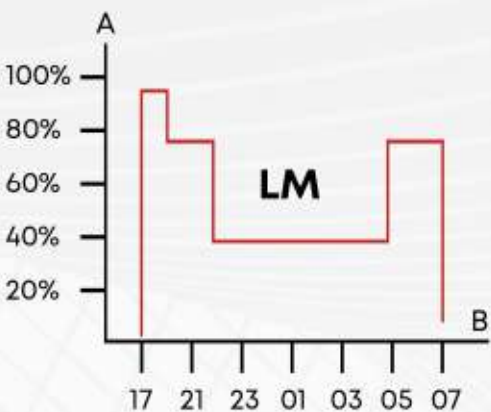
- The light engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.
- Philips Lumileds(3030/5050) or Seoul LED chips(3030/5050) provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

# > Control Systems

## Custom Dimming Profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. With customized combinations of time intervals and light levels are possible. This feature does not require any extra wiring.

The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.



## Daylight Sensor / Photocell

Photocell or daylight sensors switch the luminaire on as soon as natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at nightfall so as to provide safety and comfort in public spaces.



## Smart standards. Smarter lighting.

### LoRaWAN® Luminaire Controller Zhaga

It is an easily installable wireless device for remote control of the LED luminaires. Device is equipped with Zhaga compliant connector and controls the luminaire through DALI interface. Controller is available now for LoRaWAN®, NB-IoT and LTE-M network. Modern and small design makes it excellent fit to various street lighting modules.

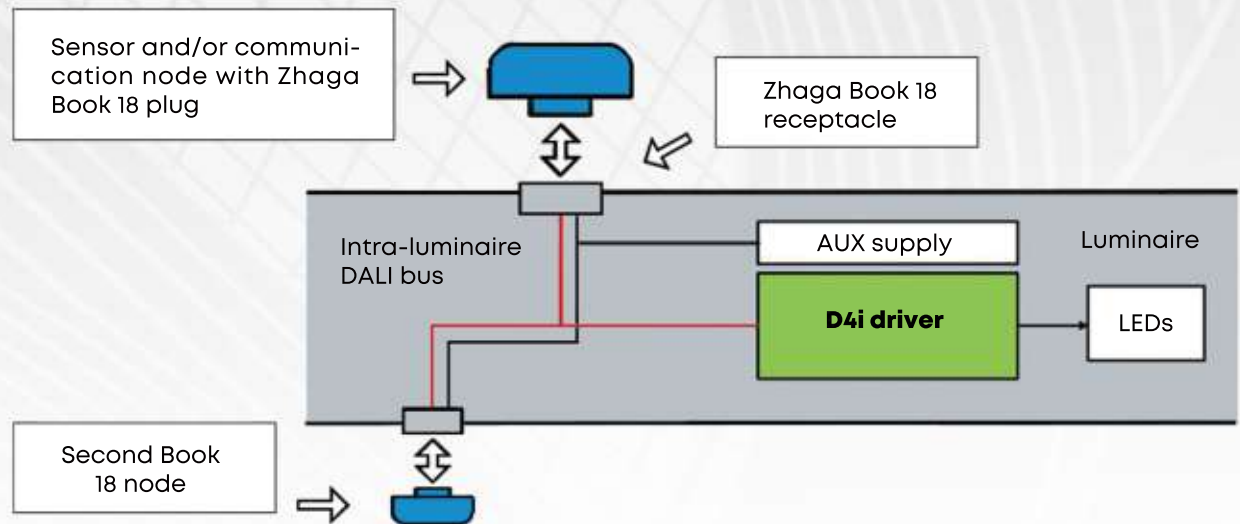
### LoRaWAN® Luminaire Controller NEMA

LoRaWAN® Luminaire Controller NEMA is a remote control device for LED luminaires equipped with ANSI C136.41 NEMA receptacle. The luminaire is controlled through DALI or 0..10V analog control interfaces, while providing a reliable power interconnect with three robust twist lock contacts.

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



## Outdoor luminaire with Zhaga receptacles (optional)





# ► Application Reference

- Road lighting
- Area lighting
- Perimeter lighting



\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.



Parameter Table

Electrical Specifications												
Model	AOK-ILA20		AOK-ILA30		AOK-ILA40		AOK-ILA50		AOK-ILA60			
Power(W)	20W		30W		40W		50W		60W			
Input voltage	100-277Vac, 50/60Hz											
THD(220Vac)	≤10 %											
PF(220Vac)	≥0.95		≥0.95		≥0.95		≥0.95		≥0.95			
Driver brand	Inventronics / Sosen / Philips. Class 1/OSRAM Class 2, EU											
Ambient temperature	-40°C to 55°C (-40 °F to 131 °F)											
Storage temperature	-40°C to 80°C (-40 °F to 176 °F)											
Control Option	DALI, 0-10V/ PWM / timer dimming, Nema, Presence detection sensor. Dim-to-Off with standby power <= 0.5W.											
Surge Protection	10kV / 20kV optional											
Photometric Specifications												
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±3%)	T201-12in1-Normal brightness LED	150lm/W	141lm/W	150lm/W	145lm/W	141lm/W						
	T211-12in1-Normal brightness LED	150lm/W	141lm/W	150lm/W	145lm/W	141lm/W						
	T301-12in1-Normal brightness LED	145lm/W	136lm/W	145lm/W	140lm/W	136lm/W						
	T311-12in1-Normal brightness LED	150lm/W	141lm/W	150lm/W	145lm/W	141lm/W						
	T411-12in1-Normal brightness LED	150lm/W	141lm/W	150lm/W	145lm/W	141lm/W						
	T221-16in1-Normal brightness LED	154lm/W	148lm/W	154lm/W	151lm/W	148lm/W						
	T321-16in1-Normal brightness LED	154lm/W	148lm/W	154lm/W	151lm/W	148lm/W						
	T231-24in1-Normal brightness LED	156lm/W	152lm/W	156lm/W	154lm/W	152lm/W						
	T331-24in1-Normal brightness LED	156lm/W	152lm/W	156lm/W	154lm/W	152lm/W						
	T401-24in1-Normal brightness LED	156lm/W	152lm/W	156lm/W	154lm/W	152lm/W						
Luminous flux (lm) (CRI 70Ra, 5000K) (Std Dev ±3%)	T201-12in1-Normal brightness LED	3000lm	4230lm	6000lm	7250lm	8460lm						
	T211-12in1-Normal brightness LED	3000lm	4230lm	6000lm	7250lm	8460lm						
	T301-12in1-Normal brightness LED	2900lm	4080lm	5800lm	7000lm	8160lm						
	T311-12in1-Normal brightness LED	3000lm	4230lm	6000lm	7250lm	8460lm						
	T411-12in1-Normal brightness LED	3000lm	4230lm	6000lm	7250lm	8460lm						
	T221-16in1-Normal brightness LED	3080lm	4440lm	6160lm	7550lm	8880lm						
	T321-16in1-Normal brightness LED	3080lm	4440lm	6160lm	7550lm	8880lm						
	T231-24in1-Normal brightness LED	3120lm	4560lm	6240lm	7700lm	9120lm						
	T331-24in1-Normal brightness LED	3120lm	4560lm	6240lm	7700lm	9120lm						
	T401-24in1-Normal brightness LED	3120lm	4560lm	6240lm	7700lm	9120lm						
ULOR	= 0%, @ Luminaire inclination 0°											
	CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K										
	CRI	70Ra, 80Ra, 90Ra										
Beam angle	Type II/Type III/Type IV											
Mechanical Specifications												
IP/K	IP66/IK09, according to standard EN 60529 and EN 62262											
Vibration resistance	3G, conform to standard IEC 68-2-6.											
SCx (EPA)	Top:0.0914m², Side:0.029m²											
Materials	Heavy-duty die-cast aluminum (ADC12)											
Surface treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).											
Painting	RAL 9005 Black, RAL 9006 Silver, RAL 7037gray, Custom request											
Cable	Pre-wired with a 50 cm cable (Other lengths on request)											
Mounting	Post Top/Side Entry											
LED												
LED Manufacturer	LUMILEDS, Seoul											
LED model	Lumileds 3030, 5050/Seoul3030, 5050											
Lens	Polycarbonate+tempered glass(4 mm thick)											
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	21.14*8.27*3.46 inches / 537*210*88mm											
Net Weight	3.4KG											
Carton size	23.23*10.04*5.71inches / 590*255*145mm											
Gross weight	4.3KG											
Recommend installation height	General 4-12m, based on actual project requirements											
Application field	Urban and rural street											
Standard Accessories	Standard SPD 10kV (EU)											
Optional Accessories	Support pole, circuit breaker,SPD 20KV , respirator, NAMA photoelectric control socket, photoelectric controller,Zhaga socket, PIR sensor, microwave sensor.											

Electrical Specifications						
Model	AOK-ILA70		AOK-ILA80		AOK-ILA90	AOK-ILA100
Power(W)	70W		80W		90W	100W
Input voltage	100-277Vac, 50/60Hz					
THD(220Vac)	≤10%					
PF(220Vac)	≥0.95	≥0.95		≥0.95	≥0.95	
Driver brand	Inventronics / Sosen / Philips. Class 1/OSRAM Class 2, EU					
Ambient temperature	-40°C to 50°C (-40 °F to 122 °F)					
Storage temperature	-40°C to 80°C (-40 °F to 176 °F)					
Control Option	DALI, 0-10V/ PWM / timer dimming, Nema, Presence detection sensor. Dim-to-Off with standby power <= 0.5W.					
Surge Protection	10kV / 20kV optional					
Photometric Specifications						
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±3%)	T201-12in1-Normal brightness LED	147lm/W	144lm/W	141lm/W	135lm/W	
	T211-12in1-Normal brightness LED	147lm/W	144lm/W	141lm/W	135lm/W	
	T301-12in1-Normal brightness LED	142lm/W	139lm/W	136lm/W	130lm/W	
	T311-12in1-Normal brightness LED	147lm/W	144lm/W	141lm/W	135lm/W	
	T411-12in1-Normal brightness LED	147lm/W	144lm/W	141lm/W	135lm/W	
	T221-16in1-Normal brightness LED	154lm/W	151lm/W	148lm/W	145lm/W	
	T321-16in1-Normal brightness LED	154lm/W	151lm/W	148lm/W	145lm/W	
	T231-24in1-Normal brightness LED	158lm/W	156lm/W	154lm/W	152lm/W	
	T331-24in1-Normal brightness LED	158lm/W	156lm/W	154lm/W	152lm/W	
	T401-24in1-Normal brightness LED	158lm/W	156lm/W	154lm/W	152lm/W	
	T231-24in1-High brightness LED	164lm/W	162lm/W	160lm/W	158lm/W	
	T331-24in1-High brightness LED	164lm/W	162lm/W	160lm/W	158lm/W	
	T401-24in1-High brightness LED	164lm/W	162lm/W	160lm/W	158lm/W	
Luminous flux (lm) (CRI 70Ra, 5000K) (Std Dev ±3%)	T201-12in1-Normal brightness LED	10290lm	11520lm	12690lm	13500lm	
	T211-12in1-Normal brightness LED	10290lm	11520lm	12690lm	13500lm	
	T301-12in1-Normal brightness LED	9940lm	11120lm	12240lm	13000lm	
	T311-12in1-Normal brightness LED	10290lm	11520lm	12690lm	13500lm	
	T411-12in1-Normal brightness LED	10290lm	11520lm	12690lm	13500lm	
	T221-16in1-Normal brightness LED	10780lm	12080lm	13320lm	14500lm	
	T321-16in1-Normal brightness LED	10780lm	12080lm	13320lm	14500lm	
	T231-24in1-Normal brightness LED	11060lm	12480lm	13860lm	15200lm	
	T331-24in1-Normal brightness LED	11060lm	12480lm	13860lm	15200lm	
	T401-24in1-Normal brightness LED	11060lm	12480lm	13860lm	15200lm	
	T231-24in1-High brightness LED	11480lm	12960lm	14400lm	15800lm	
	T331-24in1-High brightness LED	11480lm	12960lm	14400lm	15800lm	
	T401-24in1-High brightness LED	11480lm	12960lm	14400lm	15800lm	
ULOR = 0%, @ Luminaire inclination 0°						
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K					
CRI	70Ra, 80Ra, 90Ra					
Beam angle	Type II/Type III/Type IV					
Mechanical Specifications						
IP/IK	IP66/IK09, according to standard EN 60529 and EN 62262					
Vibration resistance	3G, conform to standard IEC 68-2-6.					
SCx (EPA)	Top:0.103m², Side:0.031m²					
Materials	Heavy-duty die-cast aluminum (ADC12)					
Surface treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).					
Painting	RAL 9005 Black, RAL 9006 Silver, RAL 7037gray, Custom request					
Cable	Pre-wired with a 50 cm cable (Other lengths on request)					
Mounting	Post Top/Side Entry					
LED						
LED Manufacturer	LUMILEDS, Seoul					
LED model	Lumileds 3030, 5050/Seoul3030, 5050					
Lens	Polycarbonate+tempered glass(4 mm thick)					
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	22.32*8.98*3.46 inches / 567*228*88mm					
Net Weight	4KG					
Carton size	24.41*10.43*5.71 inches / 620*265*145mm					
Gross weight	5KG					
Recommend installation height	General 4-12m, based on actual project requirements					
Application field	Urban and rural street					
Standard Accessories	Standard SPD 10kV (EU)					
Optional Accessories	Support pole, circuit breaker,SPD 20KV , respirator, NAMA photoelectric control socket, photoelectric controller,Zhaga socket, PIR sensor, microwave sensor.					

ILA Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

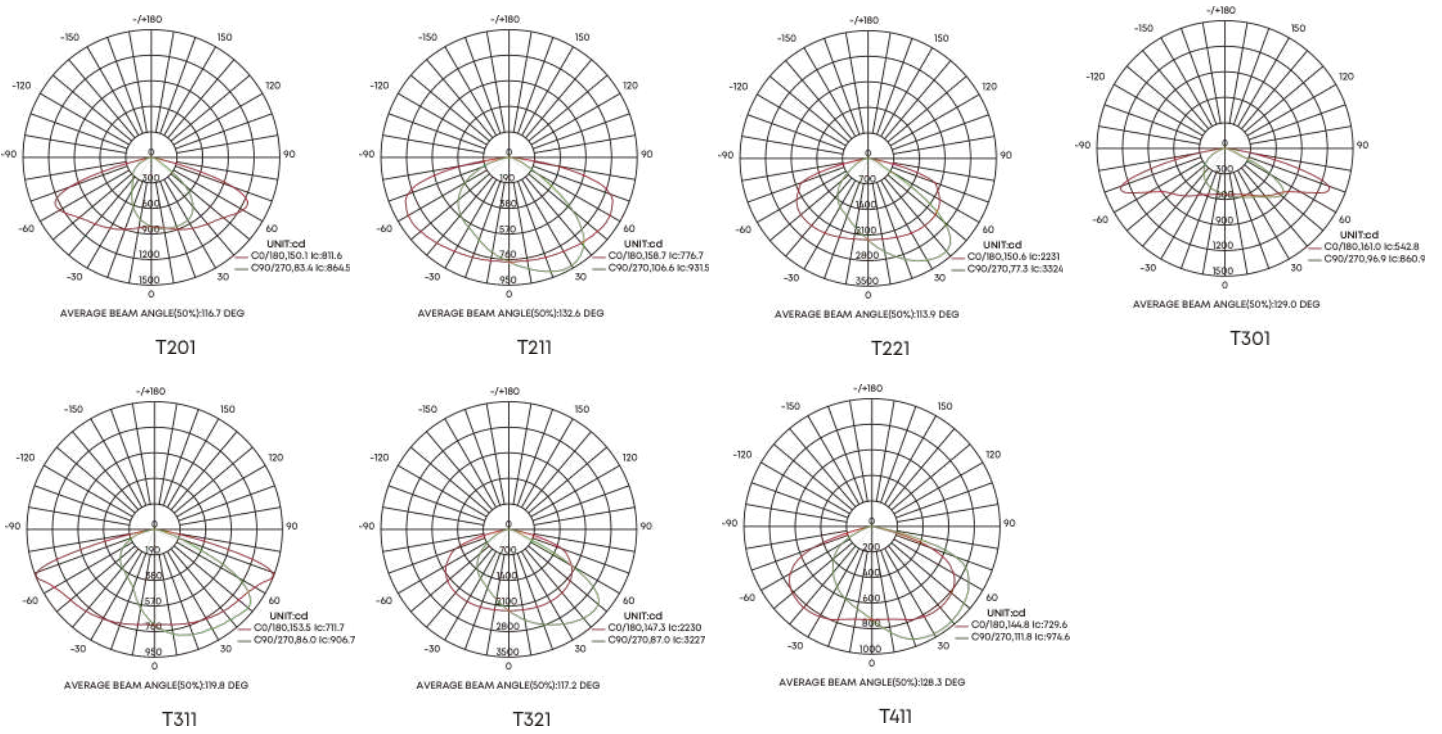
Parameter Table

Electrical Specifications						
Model	AOK-ILA120		AOK-ILA130		AOK-ILA140	AOK-ILA150
Power(W)	120W		130W		140W	150W
Input voltage	100-277Vac, 50/60Hz					
THD(220Vac)	≤10%					
PF(220Vac)	≥0.95		≥0.95		≥0.95	≥0.95
Driver brand	Inventronics /Sosen					
Ambient temperature	-40°C to 50°C (-40 °F to 122 °F)					
Storage temperature	-40°C to 80°C (-40 °F to 176 °F)					
Control Option	Daylight Sensor Control, 1-10V Dimming, Dim-to-Off with standby power <= 0.5W. Auto cut-off protection.					
Surge Protection	10kV / 20kV optional					
Photometric Specifications						
Efficacy(lm/W) (CRI 70Ra, 5000K) (Std Dev ±3%)	T201-12in1-Normal brightness LED	146lm/W	143lm/W	142lm/W	141lm/W	
	T211-12in1-Normal brightness LED	146lm/W	143lm/W	142lm/W	141lm/W	
	T301-12in1-Normal brightness LED	141lm/W	138lm/W	137lm/W	136lm/W	
	T311-12in1-Normal brightness LED	146lm/W	143lm/W	142lm/W	141lm/W	
	T411-12in1-Normal brightness LED	146lm/W	143lm/W	142lm/W	141lm/W	
	T221-16in1-Normal brightness LED	153lm/W	152lm/W	150lm/W	148lm/W	
	T321-16in1-Normal brightness LED	153lm/W	152lm/W	150lm/W	148lm/W	
	T231-24in1-Normal brightness LED	158lm/W	157lm/W	155lm/W	154lm/W	
	T331-24in1-Normal brightness LED	158lm/W	157lm/W	155lm/W	154lm/W	
	T401-24in1-Normal brightness LED	158lm/W	157lm/W	155lm/W	154lm/W	
Luminous flux (lm) (CRI 70Ra, 5000K) (Std Dev ±3%)	T231-24in1-High brightness LED	164lm/W	163lm/W	161lm/W	160lm/W	
	T331-24in1-High brightness LED	164lm/W	163lm/W	161lm/W	160lm/W	
	T401-24in1-High brightness LED	164lm/W	163lm/W	161lm/W	160lm/W	
	T201-12in1-Normal brightness LED	17520lm	18590lm	19880lm	21150lm	
	T211-12in1-Normal brightness LED	17520lm	18590lm	19880lm	21150lm	
	T301-12in1-Normal brightness LED	16920lm	17940lm	19180lm	20400lm	
	T311-12in1-Normal brightness LED	17520lm	18590lm	19880lm	21150lm	
	T411-12in1-Normal brightness LED	17520lm	18590lm	19880lm	21150lm	
	T221-16in1-Normal brightness LED	18360lm	19760lm	21000lm	22200lm	
	T321-16in1-Normal brightness LED	18360lm	19760lm	21000lm	22200lm	
ULOR	T231-24in1-Normal brightness LED	18960lm	20410lm	21700lm	23100lm	
	T331-24in1-Normal brightness LED	18960lm	20410lm	21700lm	23100lm	
	T401-24in1-Normal brightness LED	18960lm	20410lm	21700lm	23100lm	
	T231-24in1-High brightness LED	19680lm	21190lm	22540lm	24000lm	
	T331-24in1-High brightness LED	19680lm	21190lm	22540lm	24000lm	
	T401-24in1-High brightness LED	19680lm	21190lm	22540lm	24000lm	
= 0%, @ Luminaire inclination 0°						
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K					
CRI	70Ra, 80Ra, 90Ra					
Beam angle	Type II/Type III/Type IV					
Mechanical Specifications						
IP/IK	IP66/IK09, according to standard EN 60529 and EN 62262					
Vibration resistance	3G, conform to standard IEC 68-2-6.					
SCx (EPA)	Top:0.119m², Side:0.034m²					
Materials	Heavy-duty die-cast aluminum (ADC12)					
Surface treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).					
Painting	RAL 9005 Black, RAL 9006 Silver, RAL 7037gray, Custom request					
Cable	Pre-wired with a 50 cm cable (Other lengths on request)					
Mounting	Post Top/Side Entry					
LED						
LED Manufacturer	LUMILEDS, Seoul					
LED model	3030					
Lens	Polycarbonate, with tempered glass cover					
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	24.29*9.41*3.5 inches / 617*239*89mm					
Net Weight	4.9KG					
Carton size	26.38*11.3*6.1 inches / 670*287*155mm					
Gross weight	6.2KG					
Recommend installation height	General 4-12m, based on actual project requirements					
Application field	Urban and rural street					
Standard Accessories	Standard SPD 10kV (EU)					
Optional Accessories	Upgraded SPD, Auto cut-off, Support lod., Photocell (with Nema socket), Zhaga socket, DALI controller, others on request					

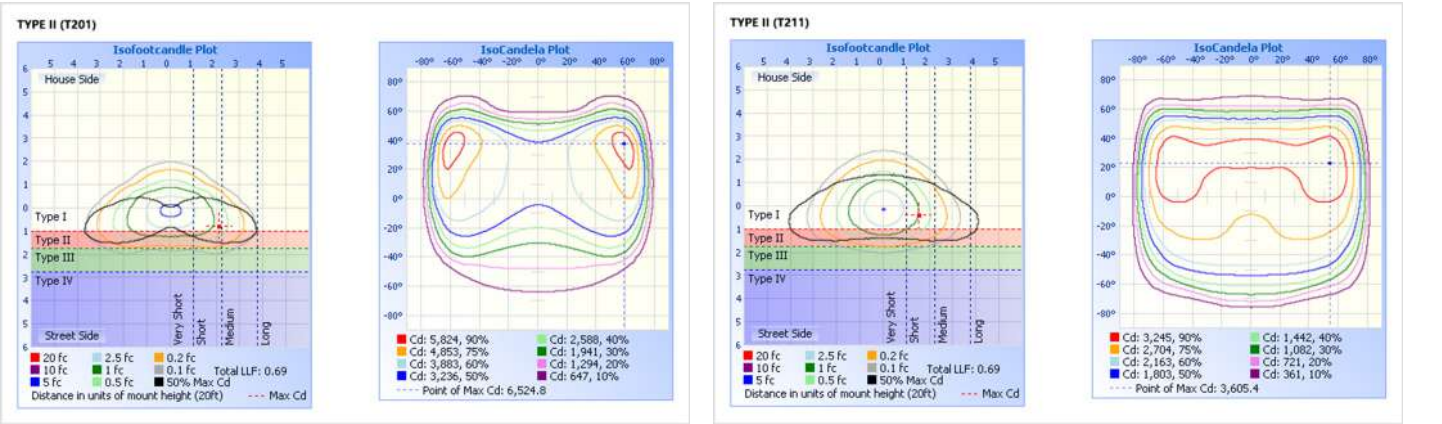
Ordering Information

AOK								
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING	OPTION
ILA20	NV=100-277V	L3=Lumileds 3030	00=Without Sensor	2770=2700K 70CRI	T2=Type II	A=Side Entry	SG=Silver Gray	10KV SPD
ILA30	HV 1=100-480V	S3=Seoul 3030	PH=Photocell	3070=3000K 70CRI	T3=Type III	B=Post Top	BZ=Bronze	20KV SPD
ILA40	HV2=200-480V	L5=Lumileds 5050	DV=Dimmable	4070=4000K 70CRI	T4=Type IV		BK=Black	Zhaga receptacle
ILA50		S5=Seoul 5050		5070=5000K 70CRI			Custom request	
ILA60				5770=5700K 70CRI				
ILA70				6570=6500K 70CRI				
ILA80				2780=2700K 80CRI				
ILA90				3080=3000K 80CRI				
ILA100				4080=4000K 80CRI				
ILA120				5080=5000K 80CRI				
ILA130				5780=5700K 80CRI				
ILA140				6580=6500K 80CRI				
ILA150								

Photometry



Illuminance Diagram



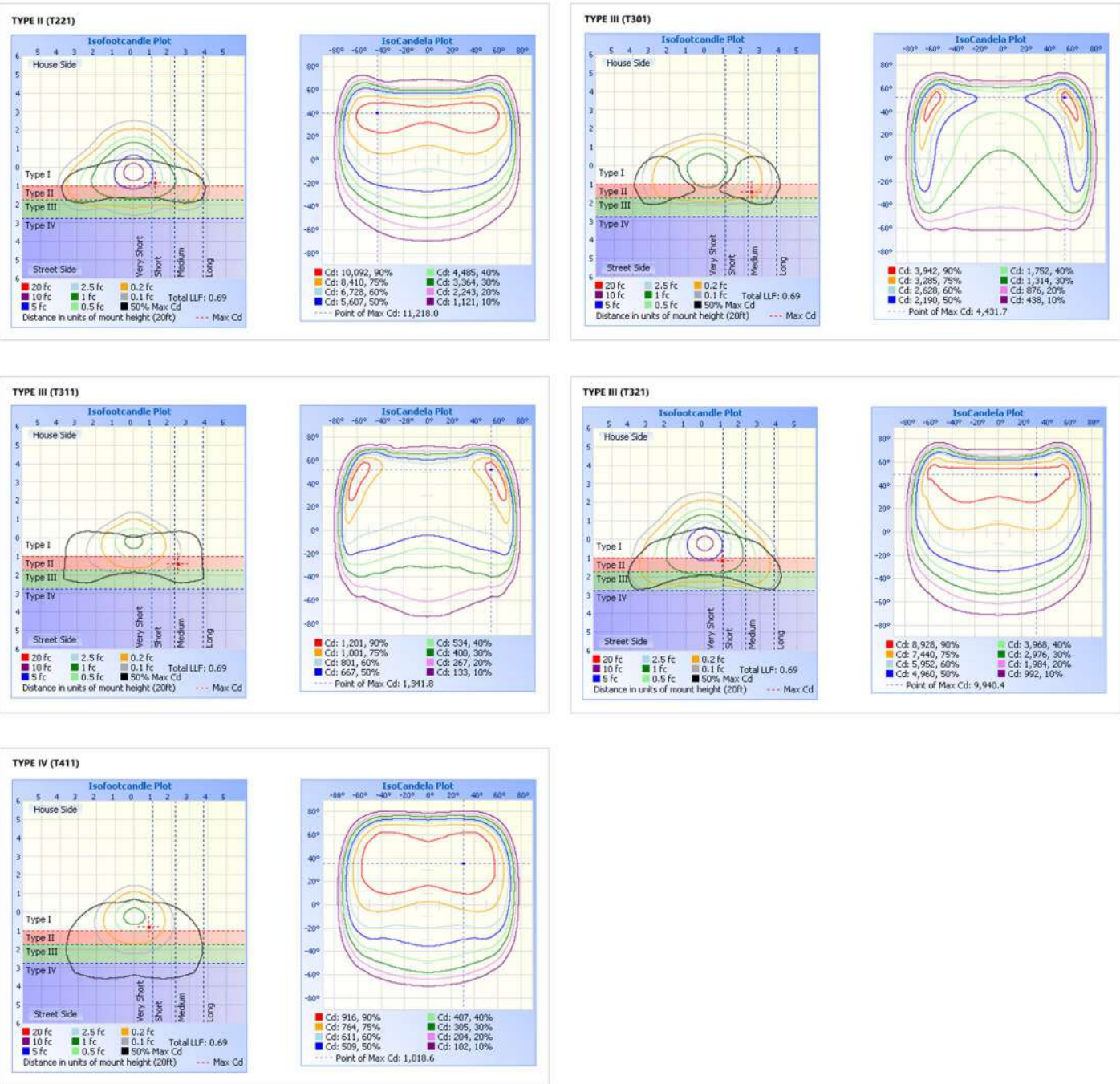
ILA Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

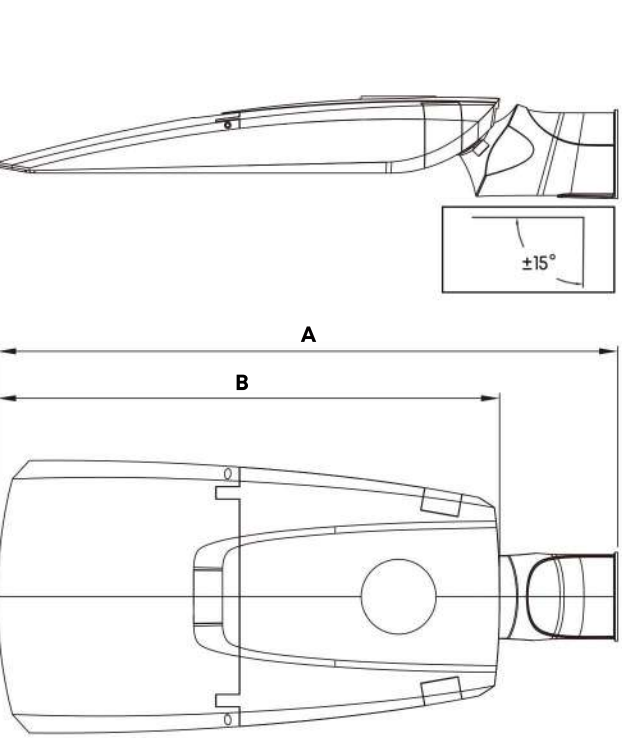
wally@aokledlight.com  
+1 626-986-4050 (US)  
+86 755 2357 9148 (CN)  
@2023 AOK LED LIGHT CO., LTD. All Right Reserved.







## Fixture Dimensions



	A	B	C
<b>20w-60w</b>	537mm 21.14"	435mm 17.13"	88mm 3.46"
<b>70w-100w</b>	567mm 22.32"	465mm 18.31"	88mm 3.46"
<b>120w-150w</b>	617mm 24.29"	515mm 20.28"	89mm 3.50"
	D	E	
<b>20w-60w</b>	67mm 2.64"	210mm 8.27"	
<b>70w-100w</b>	67mm 2.64"	228mm 8.98"	
<b>120w-150w</b>	69mm 2.72"	239mm 9.41"	

## Mounting & Control Options



## Controller & Receptacle



### ILA Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

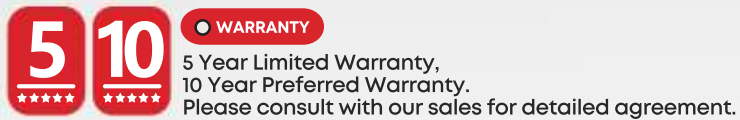
wally@aokledlight.com  
+1 626-986-4050 (US)  
+86 755 2357 9148 (CN)  
©2023 AOK LED LIGHT CO., LTD. All Right Reserved.







# Illuminate Your Future



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

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

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

NorthAmerica HQ: 18541 E Gale Ave, City of Industry, CA91748 USA

Copyright ©2023 AOK LED LIGHT CO., LTD. All Right Reserved.