



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
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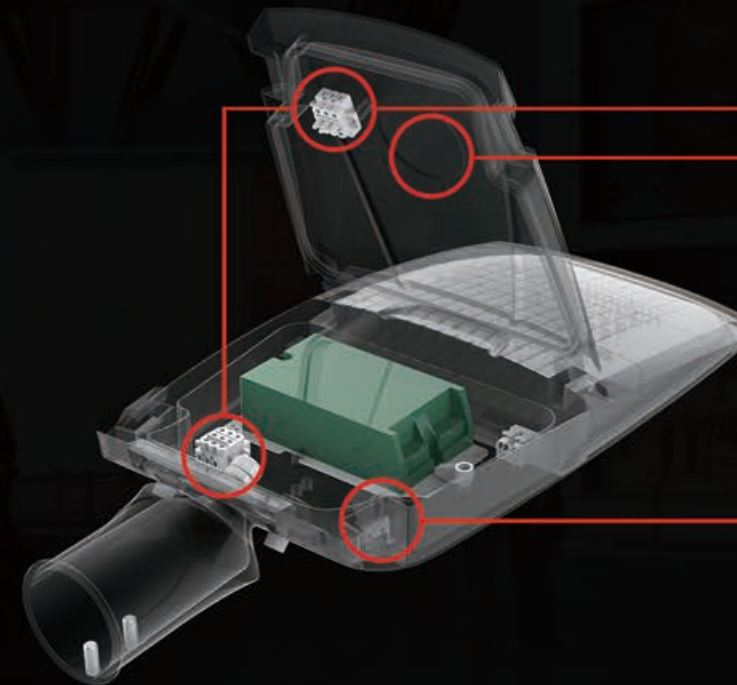
> Features of ILA Series

- 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, Type V 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.

UP TO 160 lm/W	L90B10 >100000hrs @ 25 C	Working Temperature Environment -40°C~50°C (-40°F~122°F)	100-277V 50/60HZ	THD ≤10%	IP66 IK09
ULR =0	• 2700K • 3000K • 4000K • 5000K • 5700K • 6500K	CRI 70/80/90	SAFETY PROTECTION AUTO CUT-OFF	DIM	3G VIBRATION TESTING
DALI CONTROL	TOOL FREE MAINTENANCE				



Side Entry/Post Top mounting options, adjustable angle: lateral ±15°



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.

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

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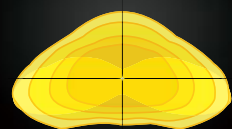
> Photometric Design

- 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.

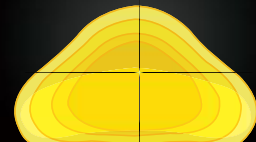
TYPE II (T201)



TYPE II (T211)

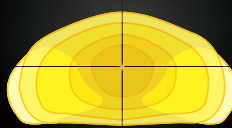


TYPE II (T221)

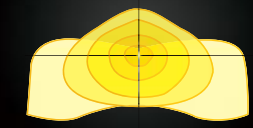


Asymmetric, Type III can be used in wide road parking areas, or at corner areas.

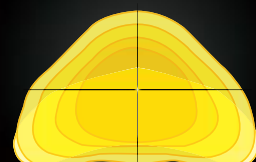
TYPE III (T301)



TYPE III (T311)

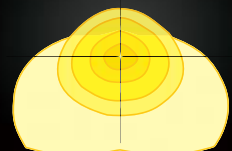


TYPE III (T321)



Asymmetric, Type IV can be used in wide road parking areas, or at corner areas.

TYPE IV (T411)



3030 LED Light Source



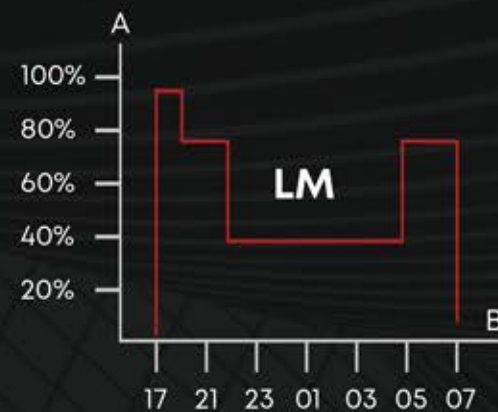
- The light engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.
- Philips Lumileds or Seoul LED chips provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

> 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 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.

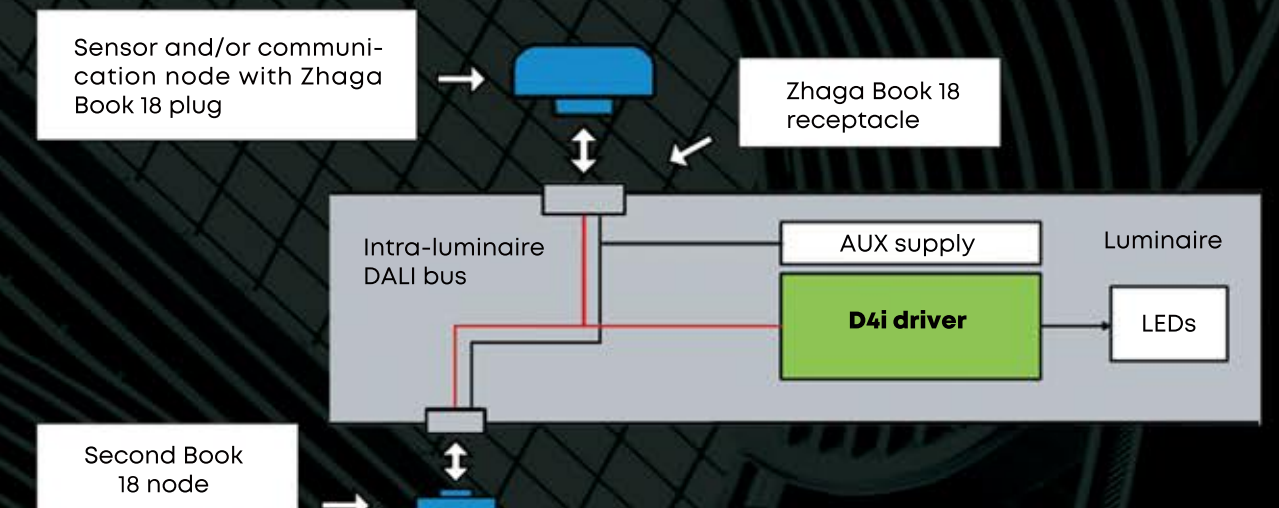
LoRaWAN® Luminaire Controller NEMA

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



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(120Vac)	≥0.99	≥0.99	≥0.99	≥0.99	≥0.99	
Driver brand	Inventronics /Sosen					
Ambient temperature	-40°C to 50°C (-40 °F to 122 °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, 4000K) (Std Dev ±3%)	T2	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
	T3	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
	T4	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
Luminous flux (lm) (CRI 70Ra, 4000K) (Std Dev ±3%)	T2	3200lm	4800lm	6400lm	8000lm	9600lm
	T3	3200lm	4800lm	6400lm	8000lm	9600lm
	T4	3200lm	4800lm	6400lm	8000lm	9600lm
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	Optical systems maintain an IP66 rating, IK09					
Vibration resistance	3G rated, 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					
Cable	Pre-wired with a 50 cm cable (Other lengths on request)					
Mounting	Post Top/Side Entry					
LED						
LED Manufacturer	LUMLEDS, Seoul					
LED model	3030					
Working current of single LED	T2	120mA	80mA	80mA	100mA	120mA
	T3	120mA	80mA	80mA	100mA	120mA
	T4	120mA	80mA	80mA	100mA	120mA
Lens	Polycarbonate, with tempered glass cover					
Others						
Lifespan	L90B10 > 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	23.15*10.27*6.1inches / 588*260*155mm					
Gross weight	4.6KG					
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					

Electrical Specifications									
Model	AOK-ILA70	AOK-ILA80	AOK-ILA90	AOK-ILA100	AOK-ILA120	AOK-ILA130	AOK-ILA140	AOK-ILA150	
Power(W)	70W	80W	90W	100W	120W	130W	140W	150W	
Input voltage	100-277Vac, 50/60Hz								
THD (220Vac)	≤10%								
PF(120Vac)	≥0.99	≥0.99	≥0.99	≥0.99	≥0.99	≥0.99	≥0.99	≥0.99	
Driver brand	Inventronics /Sosen								
Ambient temperature	-40°C to 50°C (-40 °F to 122 °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, 4000K) (Std Dev ±3%)	T2	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
	T3	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
	T4	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
Luminous flux (lm) (CRI 70Ra, 4000K) (Std Dev ±3%)	T2	11200lm	12800lm	14400lm	16000lm	19200lm	20800lm	22400lm	24000lm
	T3	11200lm	12800lm	14400lm	16000lm	19200lm	20800lm	22400lm	24000lm
	T4	11200lm	12800lm	14400lm	16000lm	19200lm	20800lm	22400lm	24000lm
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	Optical systems maintain an IP66 rating, IK09								
Vibration resistance	3G rated, 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								
Cable	Pre-wired with a 50 cm cable (Other lengths on request)								
Mounting	Post Top/Side Entry								
LED									
LED Manufacturer	LUMLEDS, Seoul								
LED model	3030								
Working current of single LED	T2	97mA	110mA	125mA	140mA	130mA	140mA	150mA	160mA
	T3	97mA	110mA	125mA	140mA	130mA	140mA	150mA	160mA
	T4	97mA	110mA	125mA	140mA	130mA	140mA	150mA	160mA
Lens	Polycarbonate, with tempered glass cover								
Others									
Lifespan	L90B10 > 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	4.9KG								
Carton size	24.41*10.91*6.1 inches / 620*277*155mm								
Gross weight	5.2KG								
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								

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.

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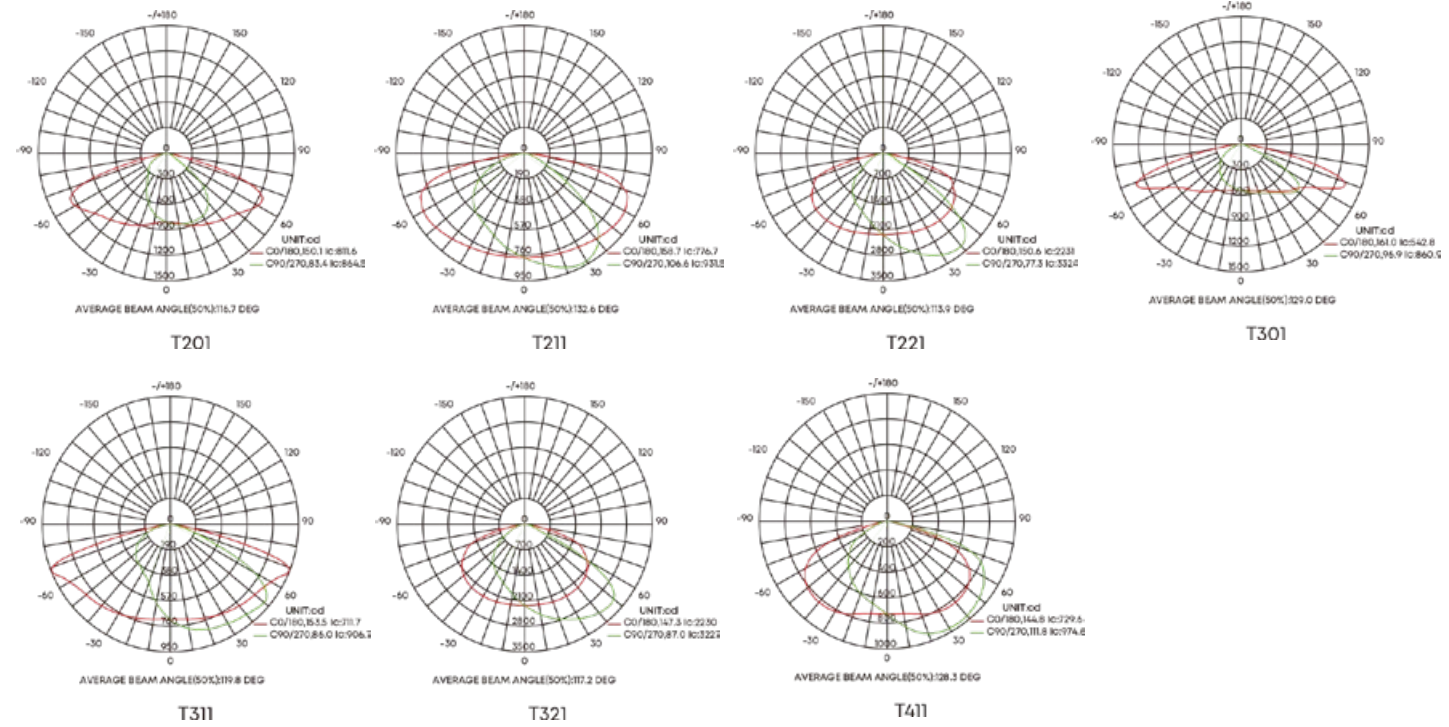
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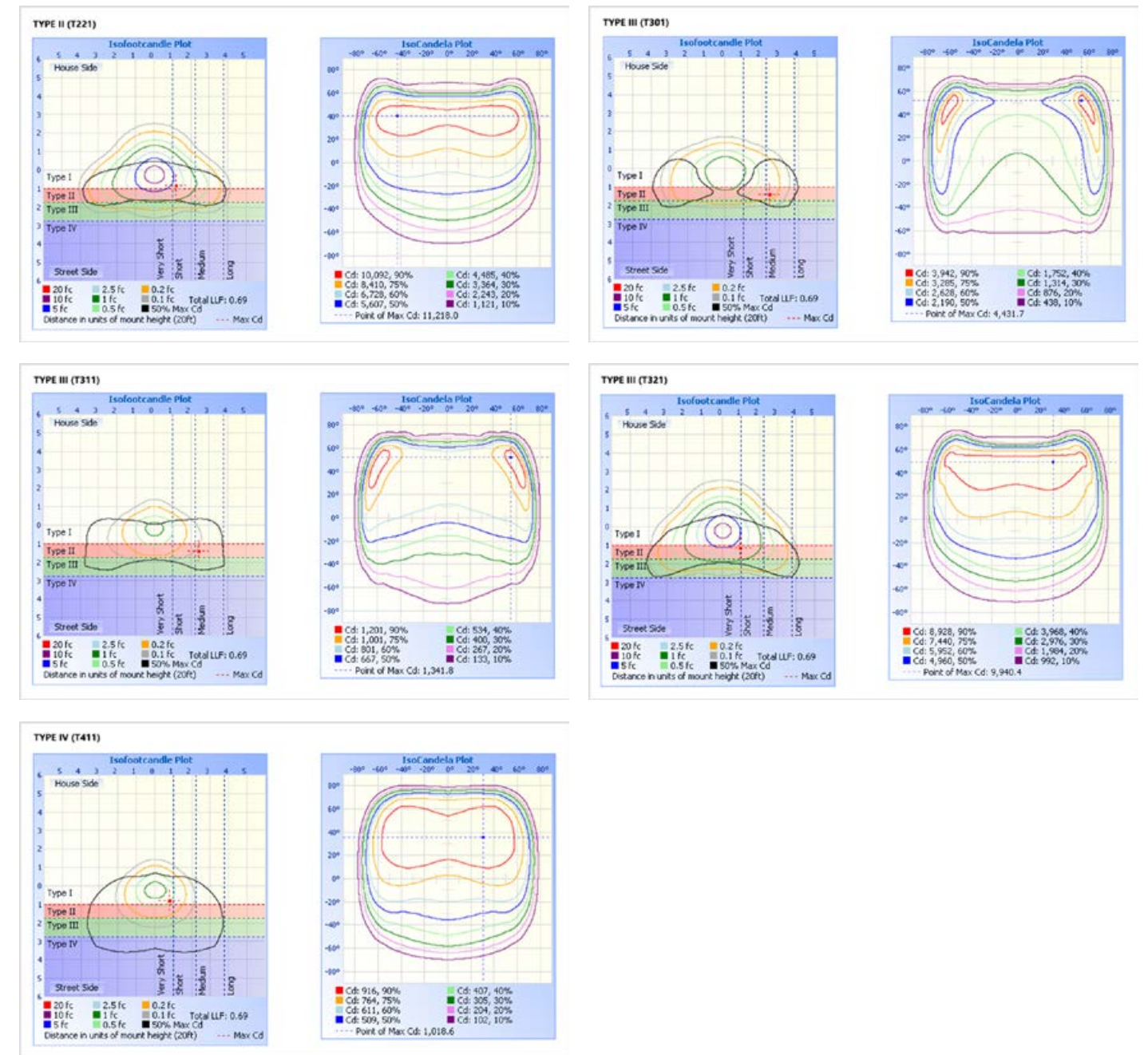
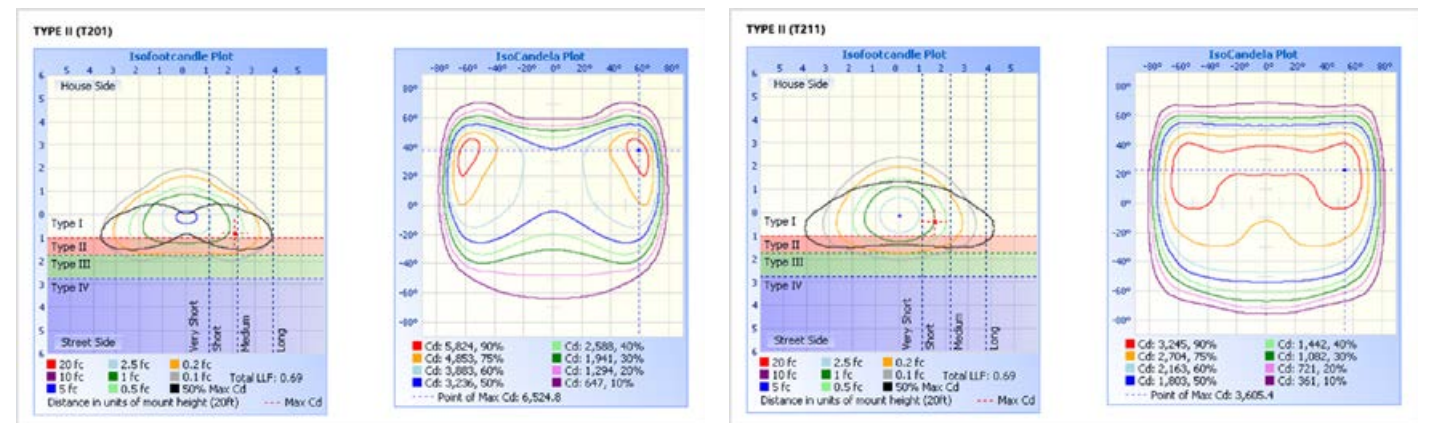
Ordering Information

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	HV1=100-480V	S3=Seoul 3030	PH=Photocell	3070=3000K 70CRI	T3=Type III	B=Post Top	BZ=Bronze	20KV SPD
	ILA40	HV2=200-480V		DV=Dimmable	4070=4000K 70CRI	T4=Type IV		BK=Black	Zhaga receptacle
	ILA50				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

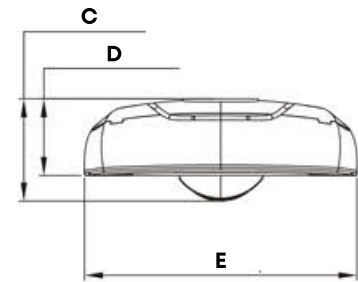
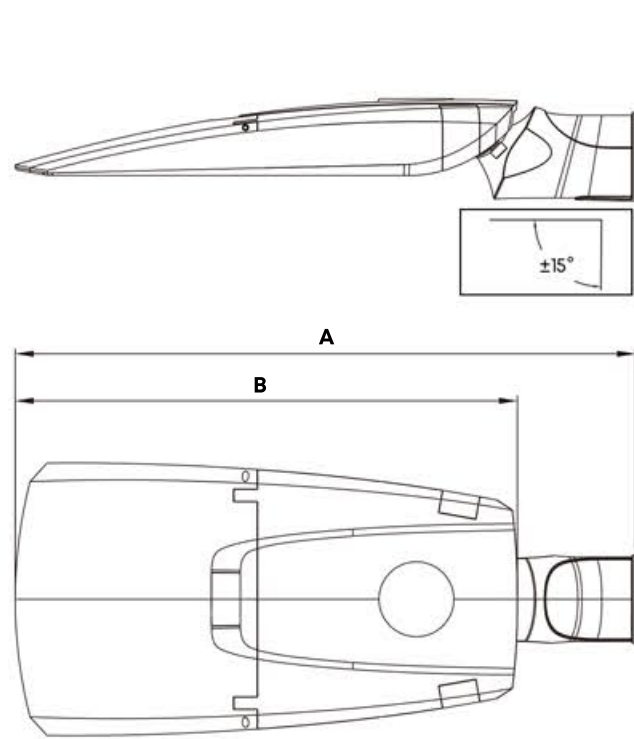
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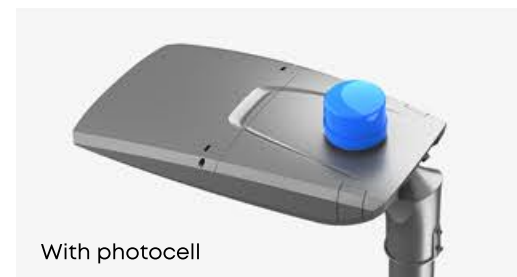
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Fixture Dimensions



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

Mounting & Control Options



Controller & Receptacle



Zhaga Receptacle Shorting cap 3 pin/7 pin receptacle Photocell



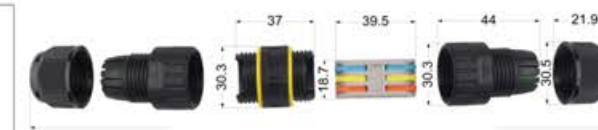
Other Accessories

Quick connection terminal



Ratings per IEC/EN
 Ratings per EN 60664
 Nominal voltage (II/2): 400V
 Rated surge voltage (II/2): 4 kV
 Ambient temperature (operation): +40 °C
 Continuous operating temperature: 85 °C
 Rated current: 32A
 Legend (ratings): (II / 2) Overvoltage category II / Pollution degree 2

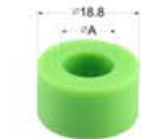
Tool-free Waterproof Connector (2-pin/3-pin/4-pin optional)



IP rating: IP68
 Rated voltage/current: 400V/24A
 Test voltage: 2500VAC
 Square number of applicable line: 0.5-2.5mm²
 Working temperature: -40~+105°C

Unit: mm. Total length of assembly: 108 (REF)

Thread clamp silicone



Wiring range
 A=Ø14, cable Ø: 10-14mm
 A=Ø12, cable Ø: 9-12mm
 A=Ø8.5, cable Ø: 5-9mm

Auto cut-off switch



Rated current (Amperes): 16A
 Rated voltage (Volts): 250V ac
 Contact material: Phosphor copper
 Insulation material: PA
 Flammability: 850°C
 Rated impulse voltage: 2500V
 Wiring capacity: 0.5-1.5mm², 12-20AWG
 Temperature range: (LLT-ULT) -40°C to +155°C

*The accessories may differ from those described in the pictures when products are upgraded. Please consult with our sales team for updated details and order separately.



Quality, Honesty, Service and Innovation

Illuminate Your Future

5

10

● WARRANTY

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

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