



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

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



OVER YEARS   
**10 EXPERIENCE**  
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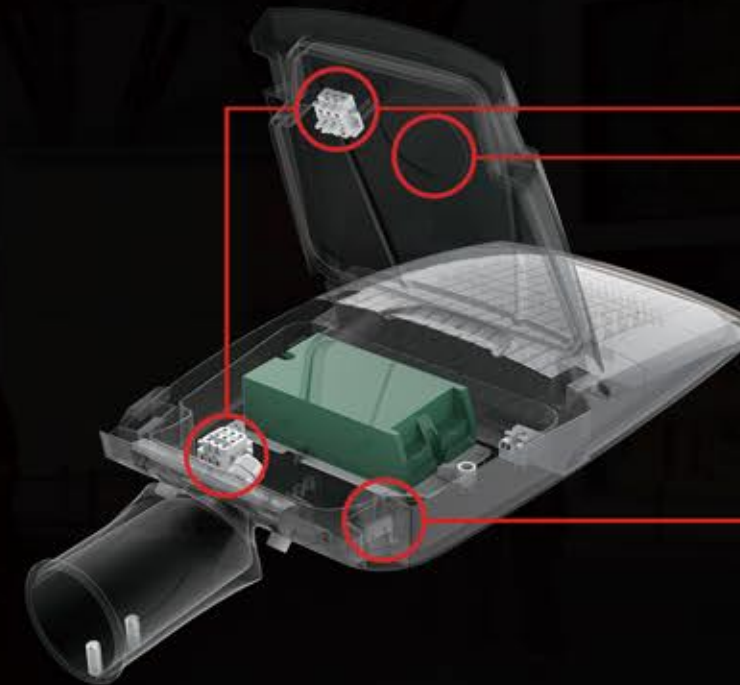
# > Features of ILA Series

- Power range: from 20W to 150W. Class I/ ClassII
- Efficacy up to 150lm/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.

<b>UP TO</b> <b>150</b> lm/W	<b>L90</b> >100000h	Working Temperature <b>Environment</b> -40°C~55°C (-40°F ~ 131°F)	<b>100-277V</b> 50/60HZ	<b>THD</b> ≤10%
<b>ULR</b> =0	• 2700K • 3000K • 4000K • 5000K • 5700K • 6500K	<b>CRI</b> 70/80/90	<b>IP66</b> <b>IK09</b>	<b>3G</b> VIBRATION TESTING
<b>SAFETY PROTECTION</b> <b>AUTO CUT-OFF</b>	<b>DIM</b>	<b>DALI</b> CONTROL	<b>TOOL FREE</b> 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.

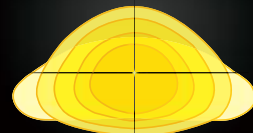
## Distribution Type

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

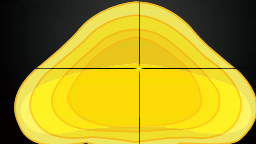
TYPE II (T201)



TYPE II (T211)

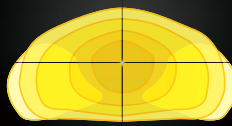


TYPE II (T221)

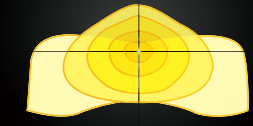


Asymmetric, Type III can be used in wide road parking areas, or at corner areas.

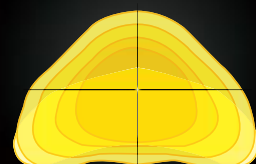
TYPE III (T301)



TYPE III (T311)

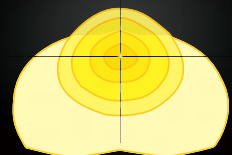


TYPE III (T321)



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

TYPE IV (T411)



3030 LED Light Source



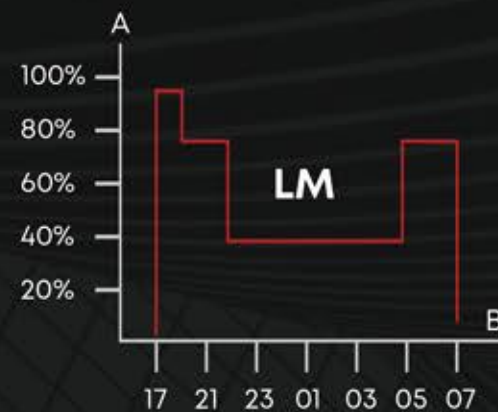
- The light engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.
- Philips Lumileds or Seoul LED chips provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

# > 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.

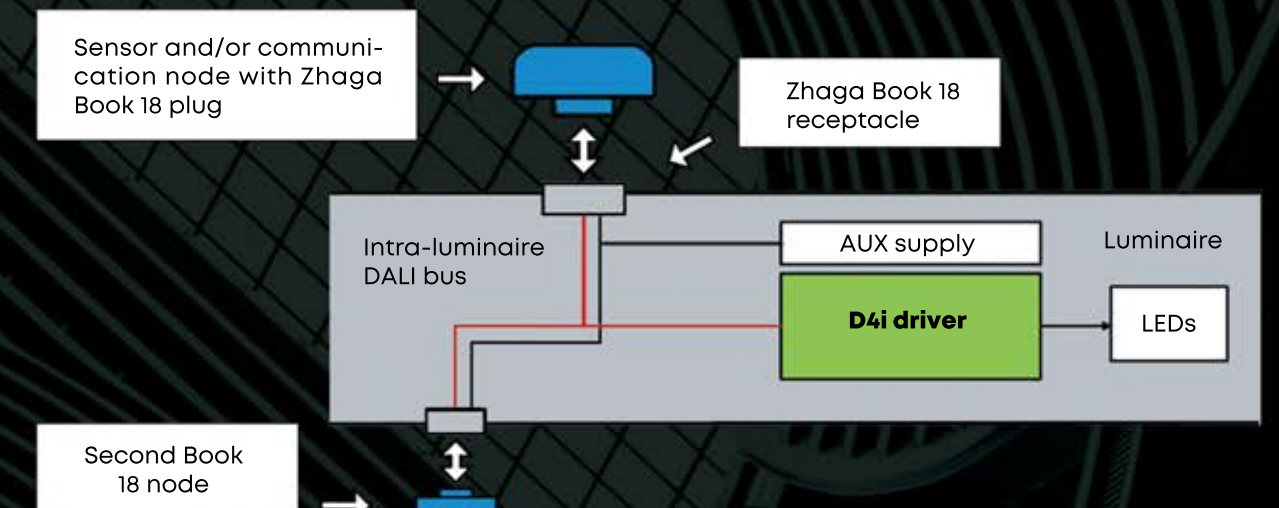
### LoRaWAN® Luminaire Controller NEMA

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	AOK-ILA70	AOK-ILA80	
Power(W)	20W	30W	40W	50W	60W	70W	80W	
Input voltage AC	100-277Vac, 50/60Hz							
THD (220Vac)	≤10%							
PF(120Vac)	≥0.99							
AC/DC conversion efficiency	≥88%	≥88%	≥88%	≥88%	≥89.5%	≥89.5%	≥92%	
Driver brand	Philips / Osram / Tridonic / Inventronics /Sosen Class 1, EU/ Class 2, EU							
Ambient temperature	-40°C to 55°C (-40 °F to 131 °F)							
Control option	Daylight Sensor Control, 1-10V Dimming, Dim-to-Off with standby power ≤ 0.5W. Auto cut-off protection. Zhaga, DALI							
EMC	According to EN 55015 / EN 61000-3-2 / EN 61000-4-5/ EN 61547							
Surge Protection	10kV / 20kV optional, 10KA							
Inrush current	26A	26A	26A	54A	54A	54A	65A	
Apparent Power & Active Power	20.5W/20W	30.5W/30W	40.8W/40W	51.5W/50W	61.2W/60W	71W/70W	82W/80W	
Photometric Specifications								
Efficacy (lm/W, Std. Dev. ±3%)@CCT=4000K, CR>70Ra	T2	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
	T3	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
	T4	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
Luminous flux (lm, Std. Dev. ±3%)@CCT=4000K, CR>70Ra	T2	3000lm	4500lm	6000lm	7500lm	9000lm	10500lm	12000lm
	T3	3000lm	4500lm	6000lm	7500lm	9000lm	10500lm	12000lm
	T4	3000lm	4500lm	6000lm	7500lm	9000lm	10500lm	12000lm
ULOR	= 0%, @ Luminaire inclination 0°							
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K							
CRI	70Ra, 80Ra, 90Ra optional							
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 rated, conform to standard IEC 68-2-6.							
SCx	Side: 0.029m², Front: 0.0152m², Top: 0.10m²				Side: 0.0322m², Front: 0.0167m², Top: 0.12m²			
Materials	Heavy-duty die-cast aluminum (EN AC-46100)							
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, Cool Gray 5C, Custom request							
Cable	H07RN-F 1.5mm², Pre-wired with a 50 cm cable (Other lengths on request)							
Mounting	Post Top/Side Entry							
LED								
LED Manufacturer	LUMILEDS, Seoul							
LED model	3030							
Working current of single LED	T2	20mA	30mA	41mA	51mA	62mA	54mA	64mA
	T3	20mA	30mA	41mA	51mA	62mA	54mA	64mA
	T4	20mA	30mA	41mA	51mA	62mA	54mA	64mA
Lens	Polycarbonate, with tempered glass cover (5 mm thick)							
Color temperature tolerance - MacAdam ellipses (SDCM)	≤3 SDCM							
Others								
Lifespan @Tq 25°C	L90 - 100 000h, The luminous flux of the LED is reduced by 10% (L90) of its initial value at 100000 hours							
Warranty	5 years (Warranty extension up to 10 years on request)							
Certification	CE, ENEC (The company is ISO 9001 and ISO 14001 certified.)							
Product Size	537*237*89mm				587*257*89mm			
Net Weight	3.5kg				3.8kg			
Carton size	600*290*150mm				650*310*150mm			
Gross weight	4.8kg				5kg			
Recommend installation height	General 4-12m, based on actual project requirements							
Application field	Urban and rural street							

Electrical Specifications								
Model	AOK-ILA90	AOK-ILA100	AOK-ILA110	AOK-ILA120	AOK-ILA130	AOK-ILA140	AOK-ILA150	
Power(W)	90W	100W	110W	120W	130W	140W	150W	
Input voltage AC	100-277Vac, 50/60Hz							
THD (220Vac)	≤10%							
PF(120Vac)	≥0.99							
AC/DC conversion efficiency	≥92%	≥92%	≥91.5%	≥91.5%	≥91.5%	≥91.5%	≥91.5%	
Driver brand	Philips / Osram / Tridonic / Inventronics /Sosen Class 1, EU/ Class 2, EU							
Ambient temperature	-40°C to 55°C (-40 °F to 131 °F)							
Control option	Daylight Sensor Control, 1-10V Dimming, Dim-to-Off with standby power ≤ 0.5W. Auto cut-off protection. Zhaga, DALI							
EMC	According to EN 55015 / EN 61000-3-2 / EN 61000-4-5/ EN 61547							
Surge Protection	10kV / 20kV optional, 10KA							
Inrush current	65A	65A	65A	77A	77A	77A	77A	
Apparent Power & Active Power	91.8W/90W	101.5W/100W	111W/110W	122.4W/120W	131.9W/130	141.4W/140W	151.5W/150W	
Photometric Specifications								
Efficacy (lm/W, Std. Dev. ±3%)@CCT=4000K, CR>70Ra	T2	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
	T3	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
	T4	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W
Luminous flux (lm, Std. Dev. ±3%)@CCT=4000K, CR>70Ra	T2	13500lm	15000lm	16500lm	18000lm	19500lm	21000lm	22500lm
	T3	13500lm	15000lm	16500lm	18000lm	19500lm	21000lm	22500lm
	T4	13500lm	15000lm	16500lm	18000lm	19500lm	21000lm	22500lm
ULOR	= 0%, @ Luminaire inclination 0°							
CCT	2700K, 3000K, 4000K, 5000K, 5700K, 6500K							
CRI	70Ra, 80Ra, 90Ra optional							
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 rated, conform to standard IEC 68-2-6.				3G rated, conform to standard IEC 68-2-6.			
SCx	Side: 0.0322m², Front: 0.0167m², Top: 0.12m²				Side: 0.033m², Front: 0.0184m², Top: 0.138m²			
Materials	Heavy-duty die-cast aluminum (EN AC-46100)							
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, Cool Gray 5C, Custom request							
Cable	H07RN-F 1.5mm², Pre-wired with a 50 cm cable (Other lengths on request)							
Mounting	Post Top/Side Entry							
LED								
LED Manufacturer	LUMILEDS, Seoul							
LED model	3030							
Working current of single LED	T2	72mA	80mA	87mA	95mA	77mA	83mA	89mA
	T3	72mA	80mA	87mA	95mA	77mA	83mA	89mA
	T4	72mA	80mA	87mA	95mA	77mA	83mA	89mA
Lens	Polycarbonate, with tempered glass cover (5 mm thick)							
Color temperature tolerance - MacAdam ellipses (SDCM)	≤3 SDCM							
Others								
Lifespan @Tq 25°C	L90 - 100 000h, The luminous flux of the LED is reduced by 10% (L90) of its initial value at 100000 hours							
Warranty	5 years (Warranty extension up to 10 years on request)							
Certification	CE, ENEC (The company is ISO 9001 and ISO 14001 certified.)							
Product Size	587*257*89mm				602*287*90mm			
Net Weight	3.8kg				4.4kg			
Carton size	650*310*150mm				660*340*150mm			
Gross weight	5kg				5.9kg			
Recommend installation height	General 4-12m, based on actual project requirements							
Application field	Urban and rural street							

## 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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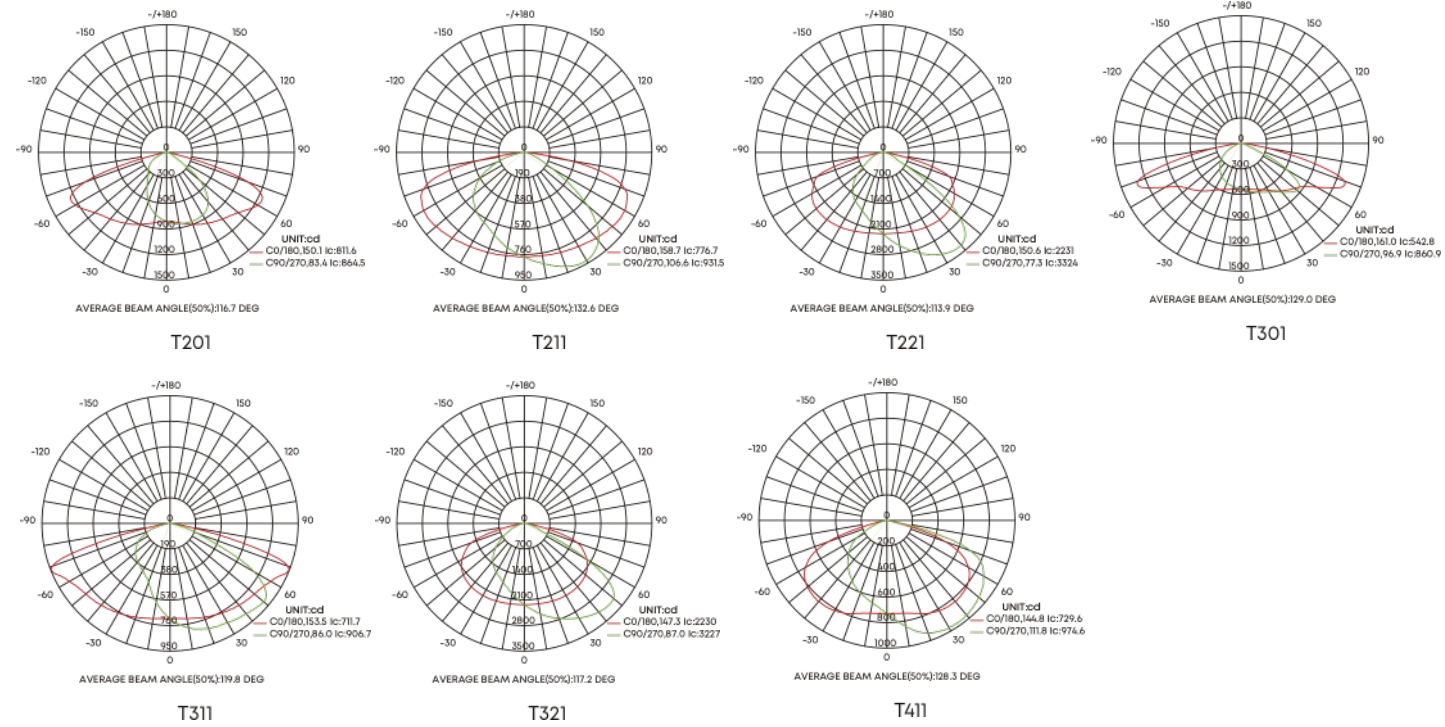
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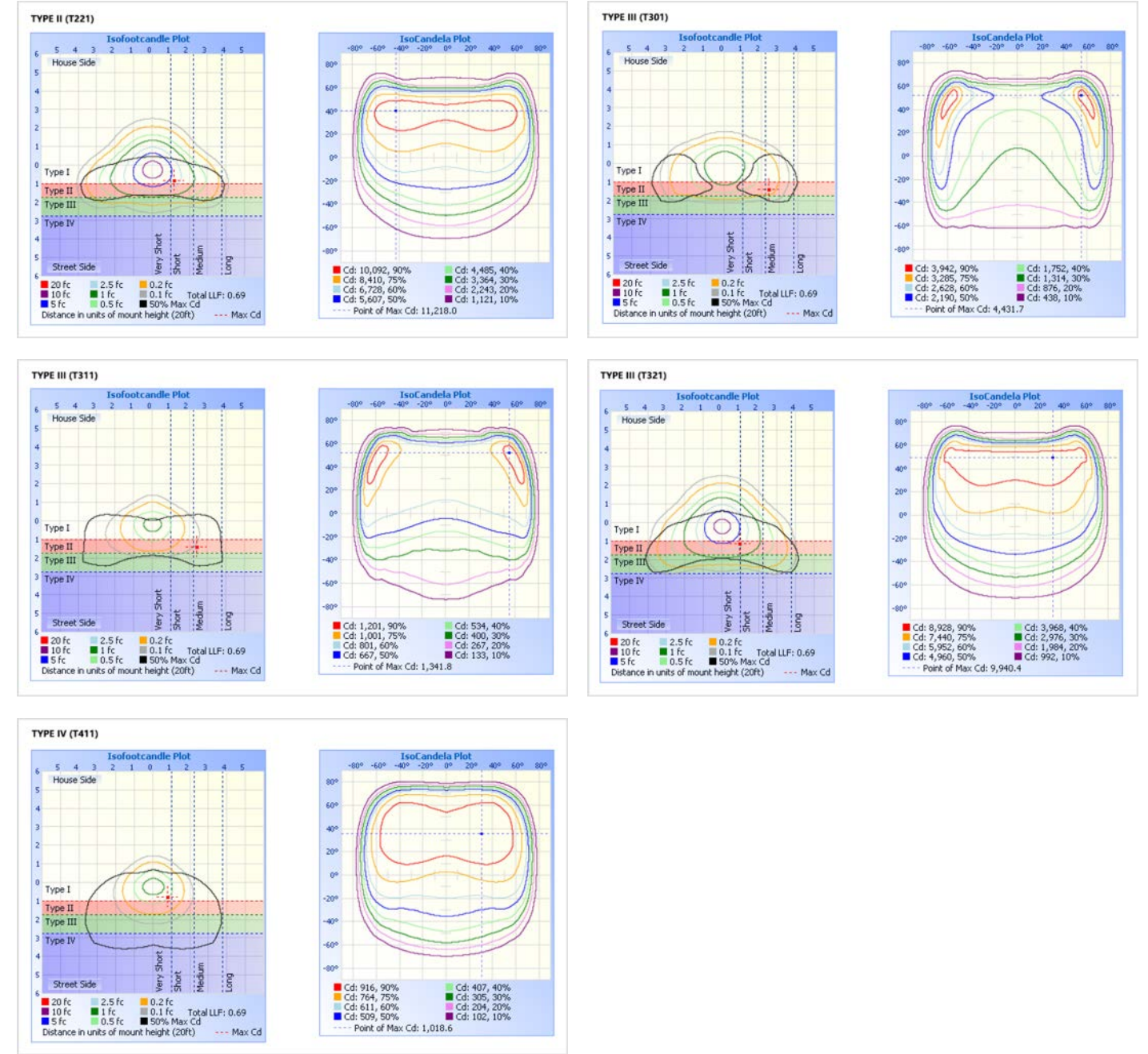
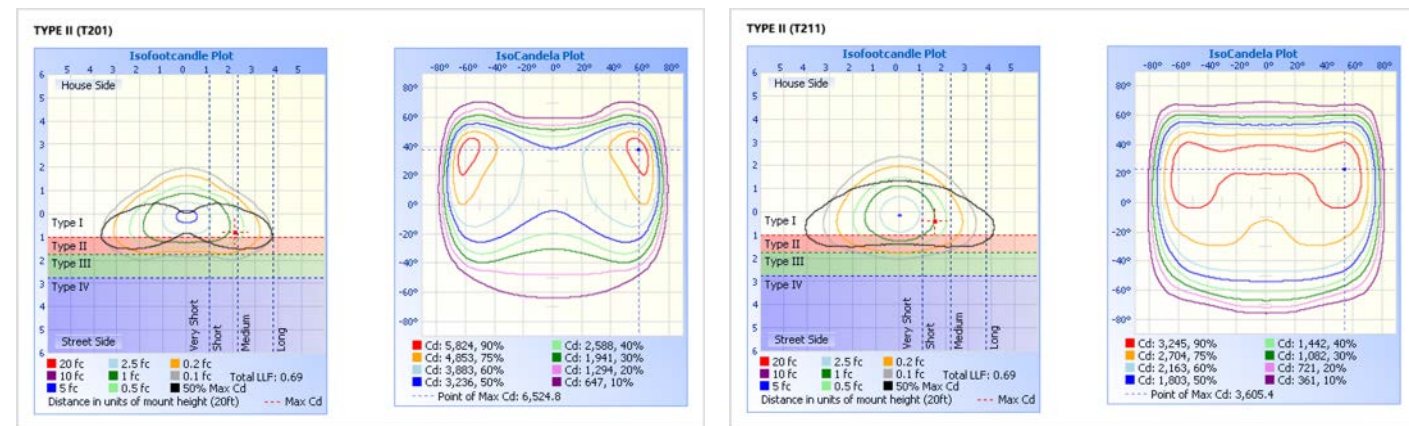
# Ordering Information

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=Slide 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		
ILA60				5770=5700K 70CRI					
ILA70				6570=6500K 70CRI					
ILA80				2780=2700K 80CRI					
ILA90				3080=3000K 80CRI					
ILA100				4080=4000K 80CRI					
ILA110				5080=5000K 80CRI					
ILA120				5780=5700K 80CRI					
ILA130				6580=6500K 80CRI					
ILA140									
ILA150									

# Photometry



# Illuminance Diagram



# ILA Series Specification Sheet

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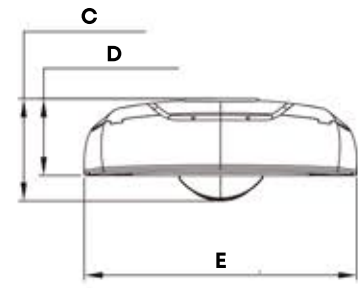
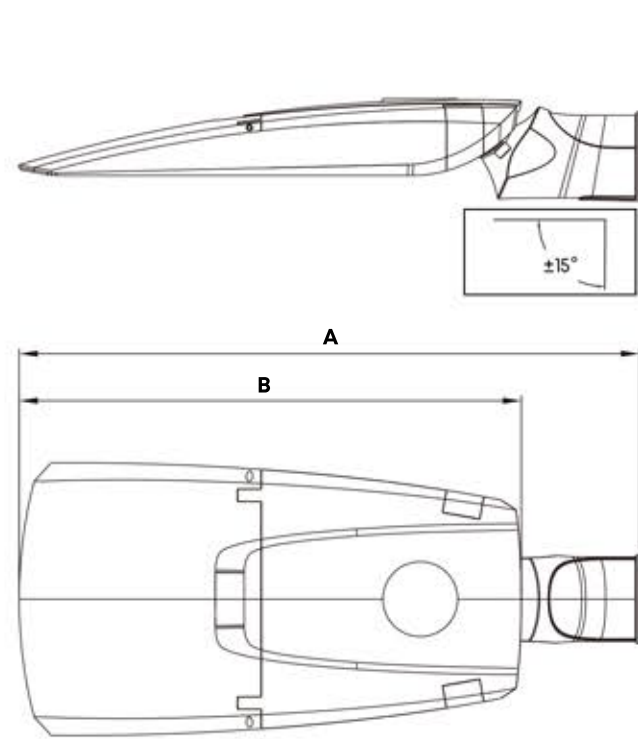
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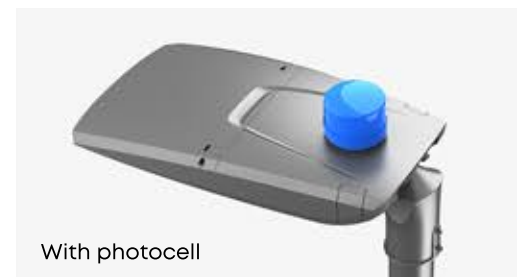


## Fixture Dimensions



	A	B	C
<b>20w-60w</b>	573mm 21.14"	435mm 17.13"	89mm 3.5"
<b>70w-120w</b>	587mm 23.11"	485mm 19.09"	89mm 3.5"
<b>130w-150w</b>	602mm 23.7"	500mm 19.69"	90mm 3.54"
	D	E	
<b>20w-60w</b>	68mm 2.68"	237mm 9.33"	
<b>70w-120w</b>	68mm 2.68"	257mm 10.12"	
<b>130w-150w</b>	68mm 2.68"	287mm 11.3"	

## Mounting & Control Options



## Controller & Receptacle



Zhaga Receptacle    Shorting cap    3 pin/7 pin receptacle    Photocell



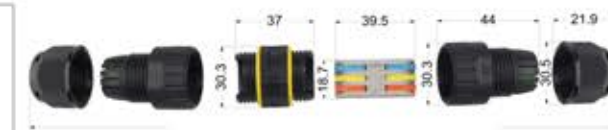
## Other Accessories

### 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: 0.5-2.5mm<sup>2</sup>  
 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: 0.5-1.5mm<sup>2</sup>, 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.





# Illuminate Your Future



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

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