



**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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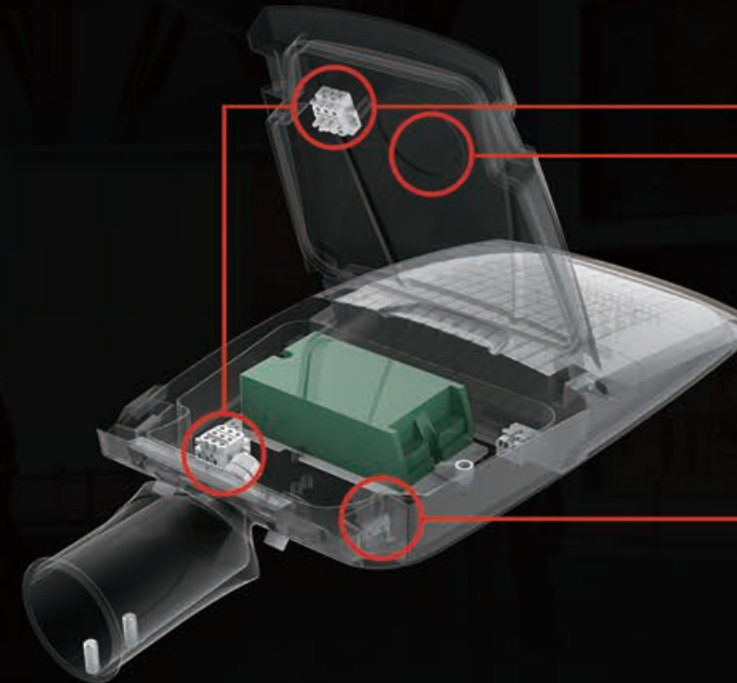
# > Features of ILA Series

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

|                                    |  |   |  |                    |                                   |
|------------------------------------|--|---|--|--------------------|-----------------------------------|
| <b>UP TO</b><br><b>160</b><br>lm/W | <b>L90</b><br>>100000h                                   | Working Temperature<br>Environment<br>-40°C~50°C<br>(-40°F~122°F) | 100-277V<br>50/60HZ                            | <b>THD</b><br>≤10% | <b>IP66</b><br><b>IK09</b>        |
| <b>ULR</b><br>=0                   | •2700K<br>•3000K<br>•4000K<br>•5000K<br>•5700K<br>•6500K | <b>CRI</b><br>70/80/90  | SAFETY<br>PROTECTION<br><b>AUTO</b><br>CUT-OFF | <b>DIM</b>         | <b>3G</b><br>VIBRATION<br>TESTING |
| <b>DALI</b><br>CONTROL             | <b>TOOL FREE</b><br>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.

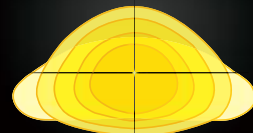
## Distribution Type

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

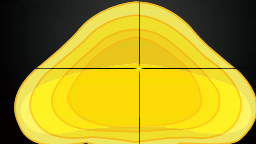
TYPE II (T201)



TYPE II (T211)

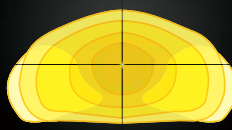


TYPE II (T221)

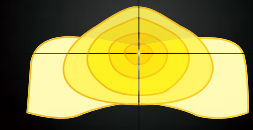


Asymmetric, Type III can be used in wide road parking areas, or at corner areas.

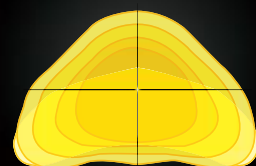
TYPE III (T301)



TYPE III (T311)

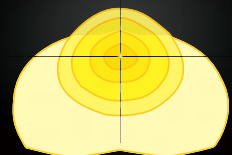


TYPE III (T321)



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

TYPE IV (T411)



3030 LED Light Source



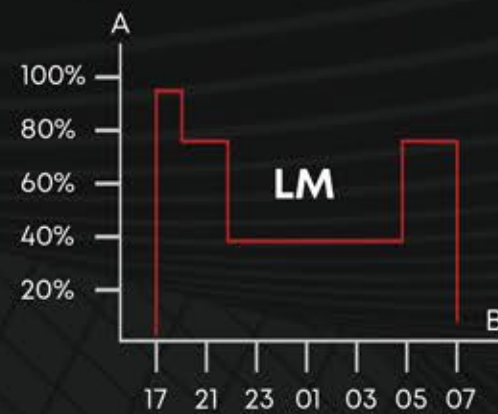
- The light engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.
- Philips Lumileds or Seoul LED chips provide lighting solutions from high-level special lights to very cost-effective but excellent quality luminaires.

# > 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.

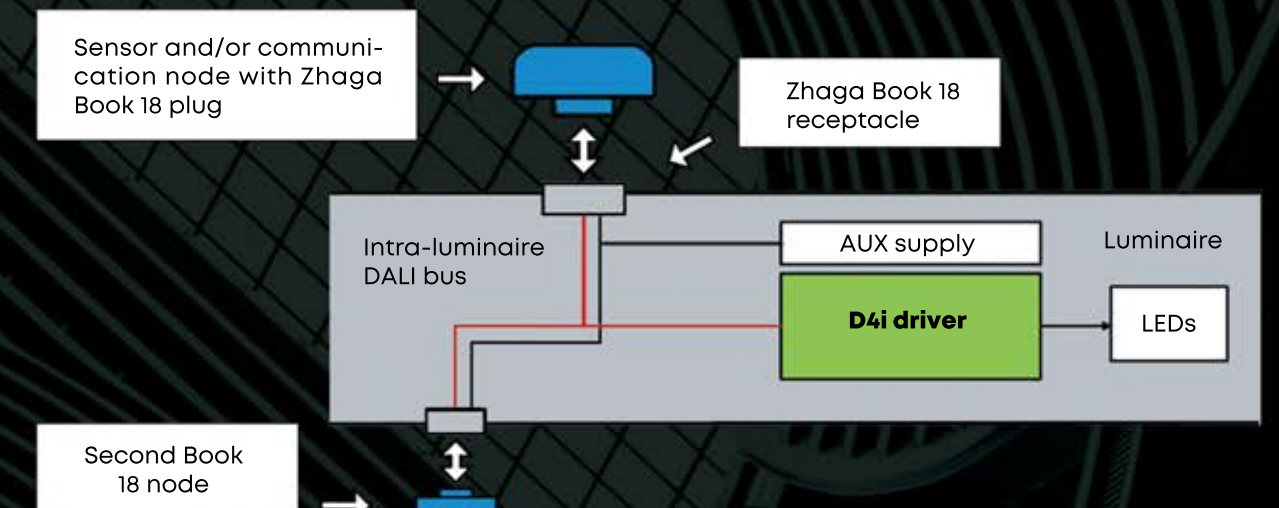
### LoRaWAN® Luminaire Controller NEMA

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)<br>(CRI 70Ra, 4000K)<br>(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)<br>(CRI 70Ra, 4000K)<br>(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   | LUMILEDS, 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 > 52000h, @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*6.1 inches / 588*260*155mm   |           |           |           |           |         |
| Gross weight   | 4.6KG  |           |           |           |           |         |
| Recommend installation height                            | General 4-12m, based on actual project requirements  |           |           |           |           |         |
| Application field  | Urban and rural street   |           |           |           |           |         |

| 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)   |           |           |            |            | -40°C to 55°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   |           |           |            |            | 10kV / 20kV optional                                    |            |            |         |  |
| Photometric Specifications                               |  |           |           |            |            |   |            |            |         |  |
| Efficacy(lm/W)<br>(CRI 70Ra, 4000K)<br>(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)<br>(CRI 70Ra, 4000K)<br>(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°   |           |           |            |            | = 0%, @ Luminaire inclination 0°                        |            |            |         |  |
| CCT  | 2700K, 3000K, 4000K, 5000K, 5700K, 6500K   |           |           |            |            | 2700K, 3000K, 4000K, 5000K, 5700K, 6500K                |            |            |         |  |
| CRI  | 70Ra, 80Ra, 90Ra   |           |           |            |            | 70Ra, 80Ra, 90Ra  |            |            |         |  |
| Beam angle   | Type II/Type III/Type IV   |           |           |            |            | Type II/Type III/Type IV                                |            |            |         |  |
| Mechanical Specifications                                |  |           |           |            |            |   |            |            |         |  |
| IP/IK  | Optical systems maintain an IP66 rating, IK09  |           |           |            |            | Optical systems maintain an IP66 rating, IK09           |            |            |         |  |
| Vibration resistance                                     | 3G rated, conform to standard IEC 68-2-6.  |           |           |            |            | 3G rated, conform to standard IEC 68-2-6.               |            |            |         |  |
| SCx(EPA)   | Top:0.103m², Side:0.031m²  |           |           |            |            | Top:0.119m², Side:0.034m²                               |            |            |         |  |
| Materials  | Heavy-duty die-cast aluminum (ADC12)   |           |           |            |            | 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)  |           |           |            |            | Pre-wired with a 50 cm cable (Other lengths on request) |            |            |         |  |
| Mounting   | Post Top/Side Entry  |           |           |            |            | Post Top/Side Entry                                     |            |            |         |  |
| LED  |  |           |           |            |            |   |            |            |         |  |
| LED Manufacturer   | LUMILEDS, Seoul  |           |           |            |            | LUMILEDS, Seoul   |            |            |         |  |
| LED model  | 3030   |           |           |            |            | 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   |           |           |            |            | Polycarbonate, with tempered glass cover                |            |            |         |  |
| Others   |  |           |           |            |            |   |            |            |         |  |
| Lifespan   | L90B10 > 52000h, @Ta 25°C  |           |           |            |            | L90B10 > 52000h, @Ta 25°C                               |            |            |         |  |
| Warranty   | 5 years (Warranty extension up to 10 years on request)   |           |           |            |            | 5 years (Warranty extension up to 10 years on request)  |            |            |         |  |
| Certification  | CE, RoHS, For other certificates please request  |           |           |            |            | CE, RoHS, For other certificates please request         |            |            |         |  |
| Product Size   | 22.32*8.98*3.46 inches / 567*228*88mm  |           |           |            |            | 24.29*9.41*3.5 inches / 617*239*89mm                    |            |            |         |  |
| Net Weight   | 4KG  |           |           |            |            | 4.9KG   |            |            |         |  |
| Carton size  | 24.41*10.91*6.1 inches / 620*277*155mm   |           |           |            |            | 26.38*11.3*6.1 inches / 670*287*155mm                   |            |            |         |  |
| Gross weight   | 5.2KG  |           |           |            |            | 6.2KG   |            |            |         |  |
| 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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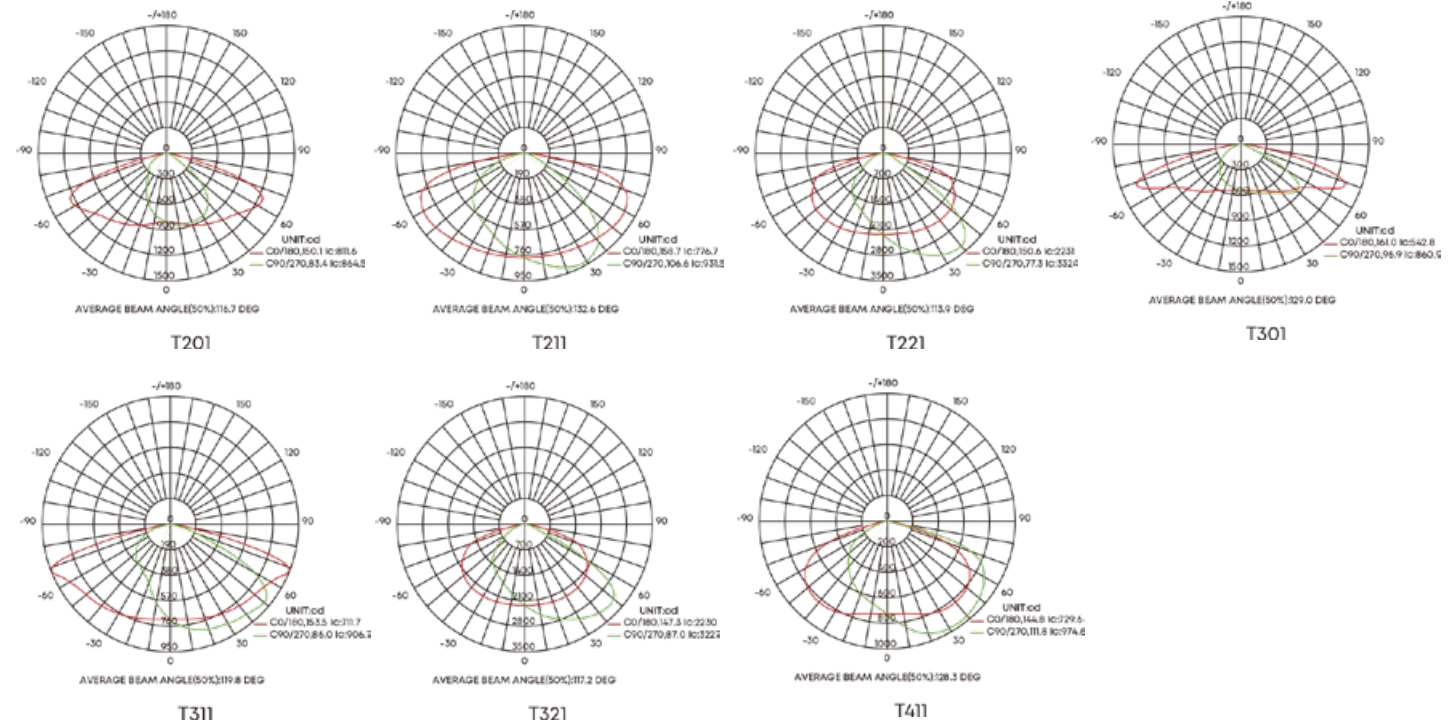
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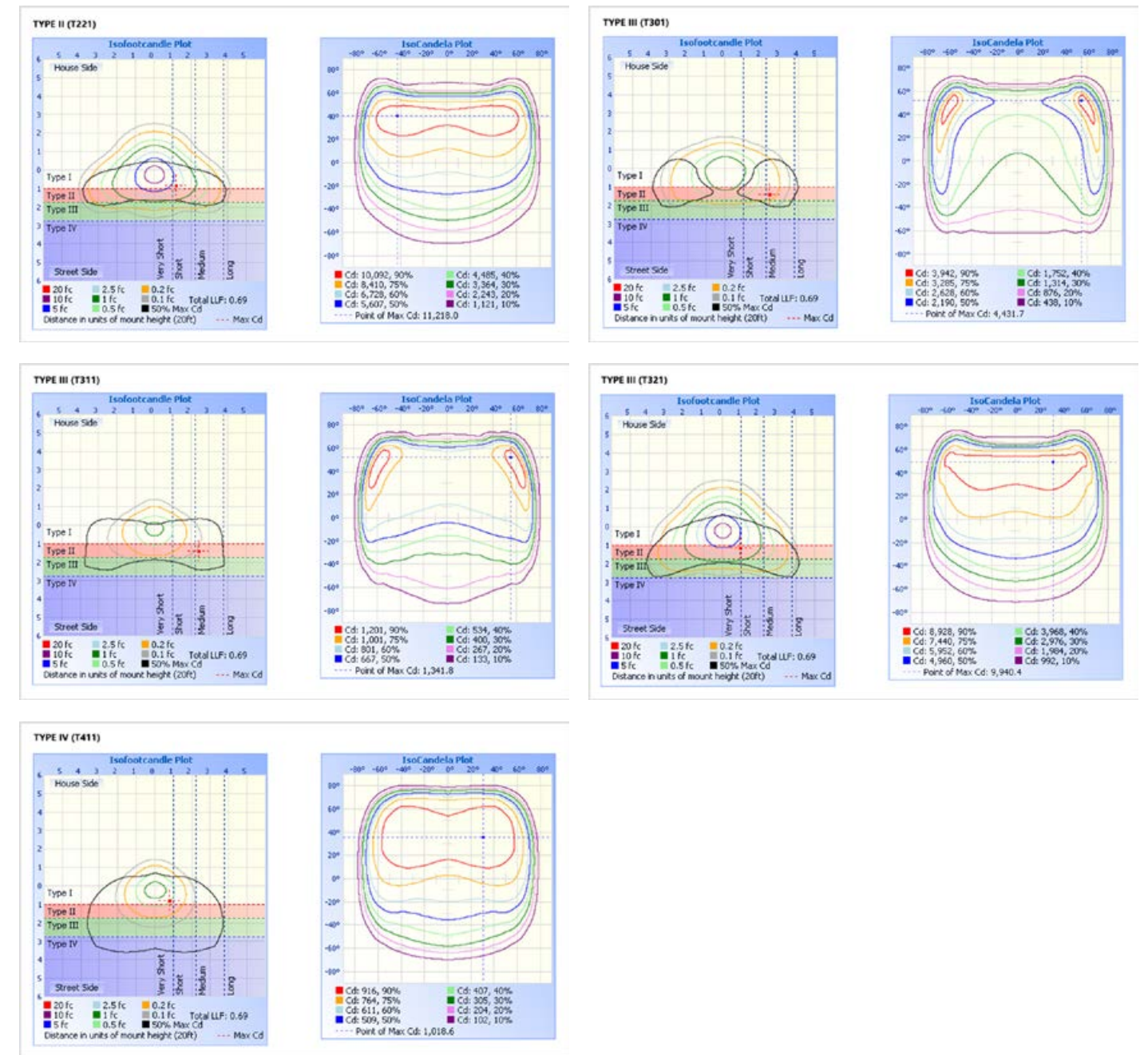
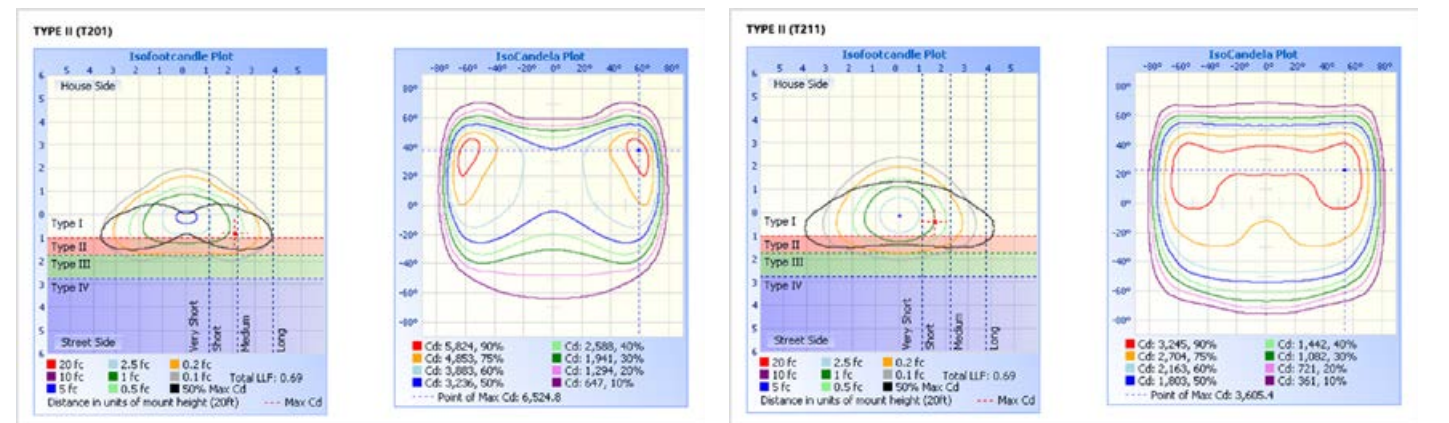
# Ordering Information

| 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=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



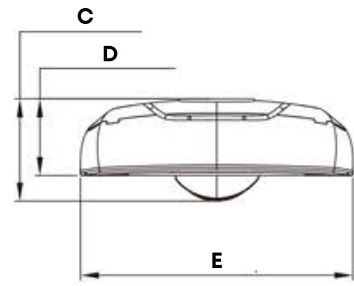
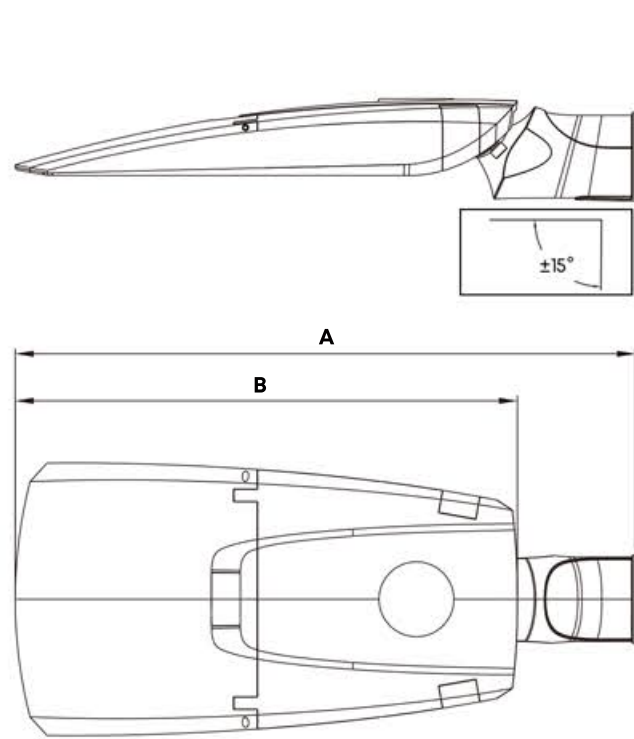
# ILA Series Specification Sheet

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## Fixture Dimensions



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

## Mounting & Control Options



## Controller & Receptacle



Zhaga Receptacle    Shorting cap    3 pin/7 pin receptacle    Photocell



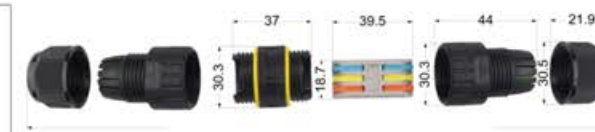
## Other Accessories

### 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

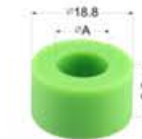
### Tool-free Waterproof Connector (2-pin/3-pin/4-pin optional)



IP rating: IP68  
Rated voltage/current: 400V/24A  
Test voltage: 2500VAC  
Square number of applicable line: 0.5-2.5mm<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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