

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



Tunnel / Street / Parkinglot / Sports Field

## **Multipurpose** FLC LED Flood Light

Power: 50W - 500W



Innovative & Tailored  
Lighting Solutions for **Success**  
[www.aokledlight.com](http://www.aokledlight.com)

# The New Generation Eco-friendly **FLC** Recyclable LED Flood Light



**Steel Wire Cover  
Solution Optional**  
The protection level up to IK10



Excluding 240W and 400W



WARRANTY

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

## ★ 5 Stars for Your Choice



**Cost Savings  
in Operations**



**Enhanced  
Efficiency**



**Environmental  
Sustainability**



**Enhanced  
Reliability**



**Smart Control  
Ready**

The FLC series Flood Light is eco-friendly and easy to recycle. It's energy-efficient and requires no tools for maintenance, allowing quick disassembly and recycling. It's perfect for public areas like tunnels, streets, parking lots, and sports fields.

- Die-cast aluminum fixture housing.
- UV-stabilized polyester powder paint finish ensures durability and corrosion resistance.
- Toolless maintenance feature, easy for recycle.
- Streamlined design to minimize wind resistance.
- Powder coating / PC + tempered glass cover.



Trunnion  
+Pole Fitter



Trunnion  
Mount



Yoke  
Mount



Note: Normal Voltage=100-277VAC, High Voltage=277-480VAC, please evaluate before choosing. For the power supply in the United States and Canada, in case the input voltage fluctuation  $\geq 240V$  the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

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# Cost Savings in Maintenance & Recycling



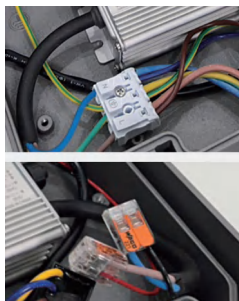
## Tool-less Opening of LED & Driver Cover Easy for Maintenance



· Inner layer raised design enhances waterproof performance.



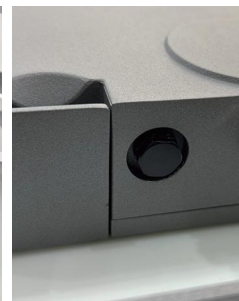
· High quality silicone gasket, improved sealing performance.



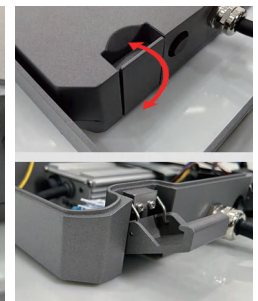
· High-quality terminal wiring ensures reliability and safety. (Optional)



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



· Breather vent (Optional)



· Upgraded buckle, the recess is easier to open or close.

# Photometric Design

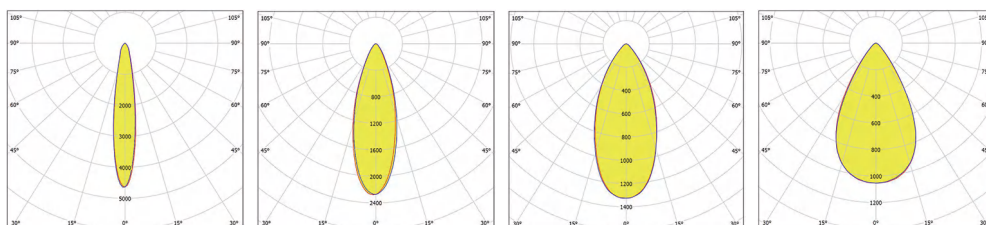
Choose between 2835/3030/5050 solutions for uniform street light distribution.

\* Supports light distribution across various applications, with customization options available for both standard and tailored lighting modes as needed.



## Optional Beam Angle

LED Model: 2835/3030

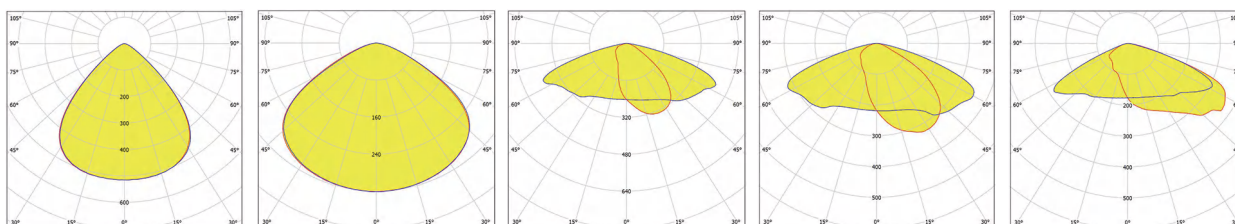


15°

30°

45°

60°



90°

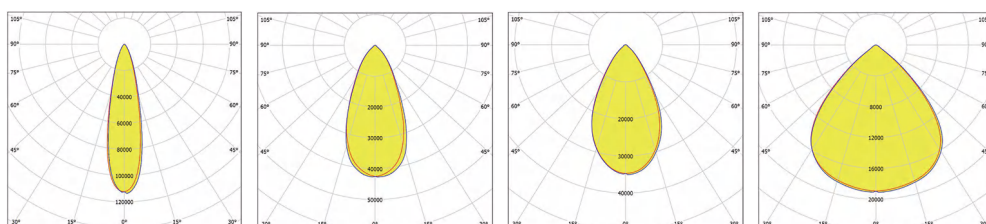
120°

T201 (60°\*150°)

T301 (70°\*150°)

T401 (70°\*150°)

LED Model: 5050

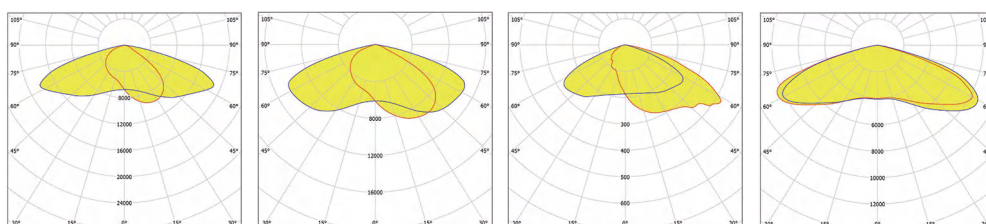


25°

45°

60°

90°



T252 (85°\*160°)

T312 (85°\*155°)

T402 (65°\*140°)

T502 (150°\*150°)

For more light distribution solutions, please consult us

# Smart Control Ready

For efficient management



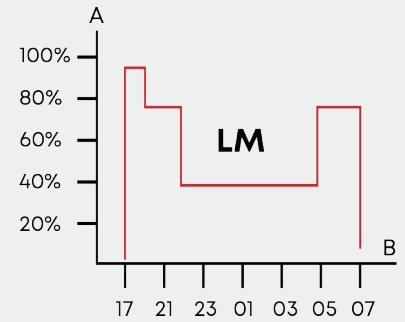
FLC is **connected-ready** and can operate with various sensors and control systems.

|                                                                                                             |                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <br>Zhaga<br>Supported   | <br>Nema / LoRa<br>Socket     |
| <br>DALI Control         | <br>Photocell                 |
| <br>Microwave            | <br>PIR                       |
| <br>Casambi<br>Supported | <br>Smart Lighting<br>Control |



## Custom Dimming Profile

Smart luminaire drivers enable the programming of complex dimming profiles without extra wiring. Customized time intervals and light levels contribute to maximum energy savings, maintaining 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 night-fall so as to provide safety and comfort in public spaces.

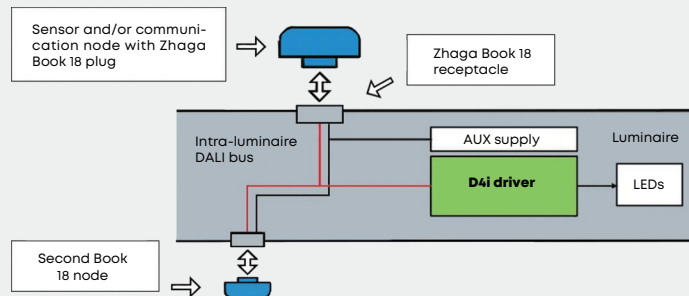


## Smart standards. Smarter lighting.

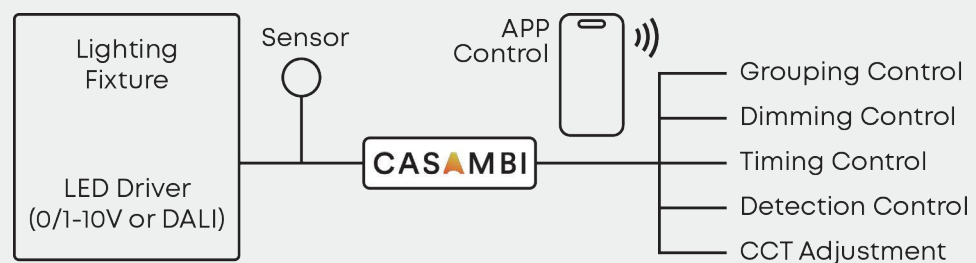
LoRaWAN® Luminaire Controller Zhaga is a wireless device for remote LED luminaire control with a Zhaga-compliant connector and DALI interface. It's compatible with LoRaWAN®, NB-IoT, and LTE-M networks, featuring a modern, compact design suitable for various street lighting modules.

LoRaWAN® Luminaire Controller NEMA is designed for LED luminaires with an ANSI C136.41 NEMA receptacle. It controls the luminaire through DALI or 0-10V analog interfaces and provides a secure power connection with three robust twist lock contacts.

## Outdoor Luminaire with Zhaga Receptacles (optional)

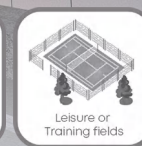
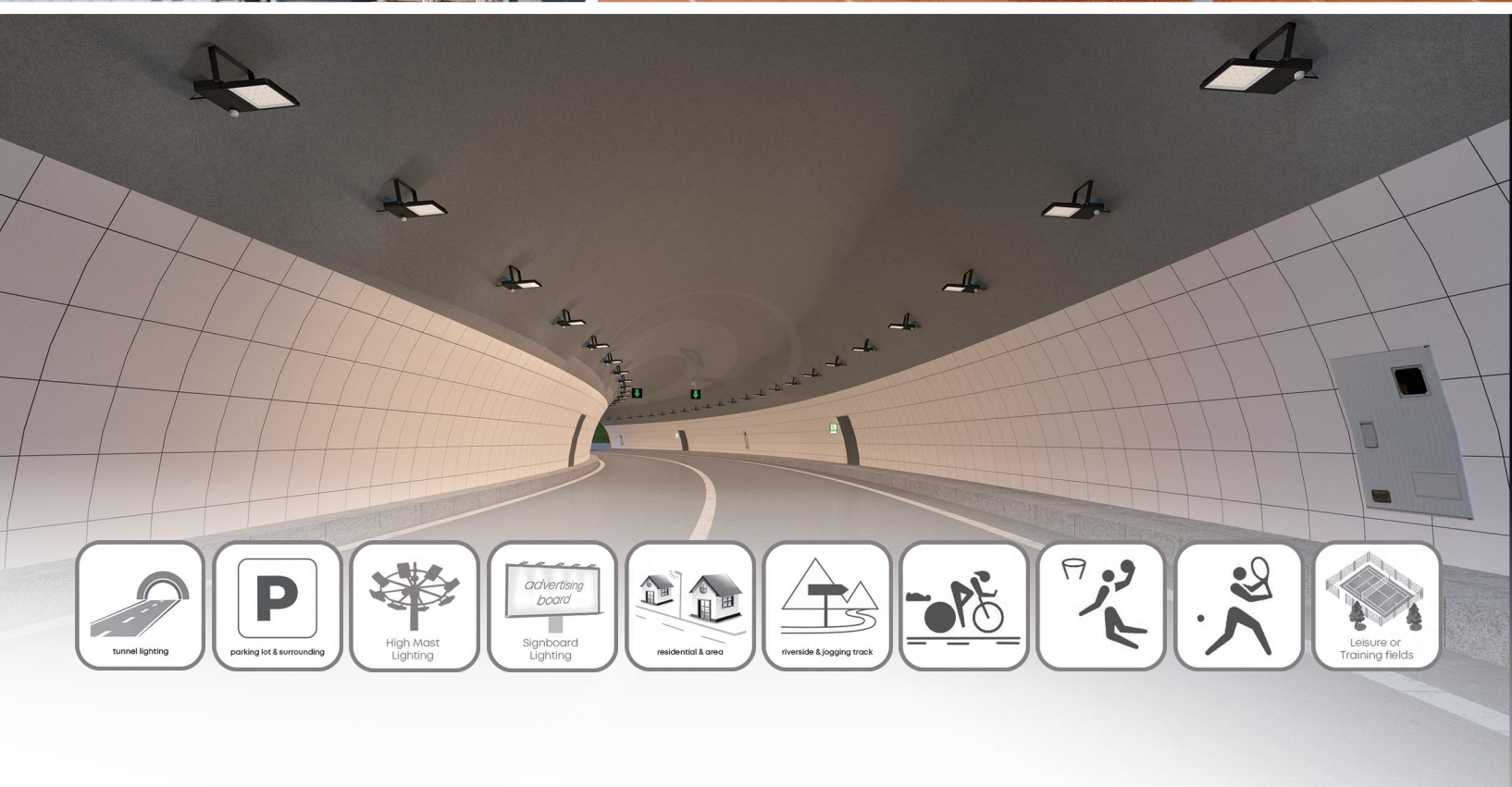


## Casambi Ready (optional)



# Application Reference

- Underpass & tunnel lighting
- Perimeter, area & street lighting
- Facade lighting
- Security lighting
- Signboard lighting
- Parking lot lighting
- Landscape lighting



# Parameter Table

| Electrical Specifications      |                                                                                         |                 |                                     |                                     |                 |
|--------------------------------|-----------------------------------------------------------------------------------------|-----------------|-------------------------------------|-------------------------------------|-----------------|
| Model                          | AOK-FLC(M)-50W                                                                          | AOK-FLC(M)-100W | AOK-FLC(M)-150W                     | AOK-FLC(L)-150W                     | AOK-FLC(L)-200W |
| Power(W, adjustable selection) | 30-40-50W                                                                               | 60-80-100W      | 100-120-150W                        | 100-120-150W                        | 120-150-200W    |
| Input voltage                  | Normal Voltage=100-277VAC, High Voltage=200-480VAC, please read *Note-1 before choosing |                 |                                     |                                     |                 |
| Driver Efficiency              | ≥96%                                                                                    | ≥96%            | ≥96%                                | ≥96%                                | ≥96%            |
| Control Option                 | Driver includes wiring for 0-10V dimming systems. Dim as low as 10%.                    |                 |                                     |                                     |                 |
| Emergency Power                | 30W                                                                                     |                 |                                     |                                     |                 |
| Emergency Time                 | 90 Minutes                                                                              |                 |                                     |                                     |                 |
| Operating Temperature          | -40°C to 50°C<br>(-40 °F to 122 °F)                                                     |                 | -40°C to 45°C<br>(-40 °F to 122 °F) | -40°C to 50°C<br>(-40 °F to 122 °F) |                 |
| Storage Temperature            | -40°C to 80°C (-40 °F to 176 °F)                                                        |                 |                                     |                                     |                 |
| Surge Protection               | None in standard                                                                        |                 |                                     |                                     |                 |

| Photometric Specifications           |                                                                                                                                                                 |                 |                 |                 |                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Efficacy (lm/W)±5% @2835             | 150lm/W                                                                                                                                                         | 150lm/W         | -               | 150lm/W         | 150lm/W         |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 4500-7500lm                                                                                                                                                     | 9000-15000lm    | -               | 15000-22500lm   | 18000-30000lm   |
| Efficacy (lm/W)±5% @5050             | 170lm/W                                                                                                                                                         | 170lm/W         | 165lm/W         | 170lm/W         | 170lm/W         |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 5100-8500lm                                                                                                                                                     | 10200-17000lm   | 16500-24750lm   | 17000-25500lm   | 20400-34000lm   |
| Efficacy (lm/W)±5% @A5050            | 195-192-190lm/W                                                                                                                                                 | 190-188-185lm/W | 183-178-175lm/W | 190-185-182lm/W | 190-185-182lm/W |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 5850-9500lm                                                                                                                                                     | 11400-18500lm   | 18300-26250lm   | 19000-27300lm   | 22800-36400lm   |
| ULOR                                 | = 0%, @ Luminaire inclination 0°                                                                                                                                |                 |                 |                 |                 |
| CCT                                  | 3000K-5000K                                                                                                                                                     |                 |                 |                 |                 |
| CRI                                  | Ra70 / Ra80                                                                                                                                                     |                 |                 |                 |                 |
| LED model                            | 2835 / 3030 / 5050 optional                                                                                                                                     |                 |                 |                 |                 |
| Lens                                 | Polycarbonate+tempered glass                                                                                                                                    |                 |                 |                 |                 |
| Beam angle                           | 2835/3030: 15°/30°/45°/60°/90°/120°/T201(60°150°)/T301(70°150°)/T401(70°150°)<br>5050: 25°/45°/60°/90°/T252(85°160°)/T312(85°155°)/T402(65°140°)/T502(150°150°) |                 |                 |                 |                 |

| Mechanical Specifications |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| IP/IK                     | IP66,IK09/IK10(With Steel Wire Cover), according to standard EN 60529 and EN 62262                        |
| Vibration Resistance      | 3G, conform to standard IEC 68-2-6.                                                                       |
| Housing                   | Heavy-duty die-cast aluminum (EN AC-46100)                                                                |
| Surface treatment         | Anti-UV thermosetting polyester / Anti-UV thermosetting polyester (for extremely corrosive environments). |
| Painting                  | Gray,Black,Custom request                                                                                 |
| SCx (EPA)                 | To be updated                                                                                             |
| Cable                     | Pre-wired with a 30 cm cable (Other lengths on request)                                                   |
| Mounting                  | Type-A (Yoke mount), Type-B (Trunnion mount), Type-C (Trunnion+pole fitter)                               |

| Package Info                   |                                        |                 |                 |                                        |                 |
|--------------------------------|----------------------------------------|-----------------|-----------------|----------------------------------------|-----------------|
| Product Size                   | 16.1*9.65*2.28 inches / 409*245*58mm   |                 |                 | 18.9*11.61*2.28 inches / 480*295*58mm  |                 |
| Net Weight (Without Bracket)   | 3.3KG(7.28 lbs)                        | 3.5KG(7.72 lbs) | 3.7KG(8.16 lbs) | 5.0KG(11.02 lbs)                       | 5.4KG(11.9 lbs) |
| Carton Size                    | 20.27*12.16*5.12inches / 515*309*130mm |                 |                 | 23.54*14.09*5.12inches / 598*358*130mm |                 |
| Gross Weight (Without Bracket) | 4.0KG(8.82 lbs)                        | 4.2KG(9.26 lbs) | 4.4KG(9.7 lbs)  | 5.8KG(12.79 lbs)                       | 6.2KG(13.67)    |

| Others                 |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Lifespan               | L70 - 100 000 h, @Tq 25°C (2835)                                                                                      |
| Warranty               | 5 years limited warranty in standard, 10 years optional                                                               |
| Certification          | Request for details                                                                                                   |
| Accessories (standard) | Request for details                                                                                                   |
| Accessories (optional) | NEMA socket, Zhaga receptacle, US/Euro standard SPD, photocell, microwave/PIR sensor, support rod, CCT/power turnable |
| Application Field      | Tunnel, urban road & street, residential area, parks, parking lot, riverside & jogging track, sports field, warehouse |

**Important Note!** The provided information is solely for reference; the official measurement report holds higher authority.

\* Note-1: For the power supply in the United States and Canada, in case the input voltage fluctuation ≥240V the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

# Parameter Table

| Electrical Specifications      |                                                                                         |                                     |                                     |                  |                                     |
|--------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------|-------------------------------------|
| Model                          | AOK-FLC(L)-240W                                                                         | AOK-FLC(L)-270W                     | AOK-FLC(XL)-300W                    | AOK-FLC(XL)-400W | AOK-FLC(XL)-500W                    |
| Power(W, adjustable selection) | 150-200-240W                                                                            | 180-240-270W                        | 200-250-300W                        | 300-350-400W     | 500W                                |
| Input voltage                  | Normal Voltage=100-277VAC, High Voltage=200-480VAC, please read *Note-1 before choosing |                                     |                                     |                  |                                     |
| Driver Efficiency              | ≥96%                                                                                    | ≥96%                                | ≥96%                                | ≥96%             | ≥96%                                |
| Control Option                 | Driver includes wiring for 0-10V dimming systems. Dim as low as 10%.                    |                                     |                                     |                  |                                     |
| Emergency Power                | 30W                                                                                     |                                     |                                     | /                | /                                   |
| Emergency Time                 | 90 Minutes                                                                              |                                     |                                     | /                | /                                   |
| Operating Temperature          | -40°C to 50°C<br>(-40 °F to 122 °F)                                                     | -40°C to 45°C<br>(-40 °F to 122 °F) | -40°C to 50°C<br>(-40 °F to 122 °F) |                  | -40°C to 45°C<br>(-40 °F to 122 °F) |
| Storage Temperature            | -40°C to 80°C (-40 °F to 176 °F)                                                        |                                     |                                     |                  |                                     |
| Surge Protection               | None in standard                                                                        |                                     |                                     |                  |                                     |

| Photometric Specifications           |                                                                                                                                                                 |                 |                 |                 |         |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|---------|
| Efficacy (lm/W)±5% @2835             | 150lm/W                                                                                                                                                         | -               | 150lm/W         | 150lm/W         | /       |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 22500-36000lm                                                                                                                                                   | -               | 30000-45000lm   | 45000-60000lm   | /       |
| Efficacy (lm/W)±5% @5050             | 165lm/W                                                                                                                                                         | 160lm/W         | 170lm/W         | 165lm/W         | 160lm/W |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 24750-39600lm                                                                                                                                                   | 28800-43200lm   | 34000-51000lm   | 49500-66000lm   | 80000lm |
| Efficacy (lm/W)±5% @A5050            | 185-182-180lm/W                                                                                                                                                 | 182-180-175lm/W | 190-185-183lm/W | 185-183-180lm/W | 175lm/W |
| Luminous flux(lm)±5%@CRI 70Ra, 4000K | 27750-43200lm                                                                                                                                                   | 32760-47250lm   | 38000-54900lm   | 55500-72000lm   | 87500lm |
| ULOR                                 | = 0%, @ Luminaire inclination 0°                                                                                                                                |                 |                 |                 |         |
| CCT                                  | 3000K-5000K                                                                                                                                                     |                 |                 |                 |         |
| CRI                                  | Ra70 / Ra80                                                                                                                                                     |                 |                 |                 |         |
| LED model                            | 2835 / 3030 / 5050 optional                                                                                                                                     |                 |                 |                 | 5050    |
| Lens                                 | Polycarbonate+tempered glass                                                                                                                                    |                 |                 |                 |         |
| Beam angle                           | 2835/3030: 15°/30°/45°/60°/90°/120°/T201(60°150°)/T301(70°150°)/T401(70°150°)<br>5050: 25°/45°/60°/90°/T252(85°160°)/T312(85°155°)/T402(65°140°)/T502(150°150°) |                 |                 |                 |         |

| Mechanical Specifications |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| IP/IK                     | IP66,IK09/IK10(With Steel Wire Cover), according to standard EN 60529 and EN 62262                        |
| Vibration Resistance      | 3G, conform to standard IEC 68-2-6.                                                                       |
| Housing                   | Heavy-duty die-cast aluminum (EN AC-46100)                                                                |
| Surface treatment         | Anti-UV thermosetting polyester / Anti-UV thermosetting polyester (for extremely corrosive environments). |
| Painting                  | Gray,Black,Custom request                                                                                 |
| SCx (EPA)                 | To be updated                                                                                             |
| Cable                     | Pre-wired with a 30 cm cable (Other lengths on request)                                                   |
| Mounting                  | Type-A (Yoke mount), Type-B (Trunnion mount), Type-C (Trunnion+pole fitter)                               |

| Package Info                   |                                        |                  |                                        |                  |                 |
|--------------------------------|----------------------------------------|------------------|----------------------------------------|------------------|-----------------|
| Product Size                   | 18.9*11.61*2.28 inches / 480*295*58mm  |                  | 23.23*13.66*2.75 inches/ 590*347*70mm  |                  |                 |
| Net Weight (Without Bracket)   | 5.5KG(12.13 lbs)                       | 5.7KG(12.57 lbs) | 6.8KG(14.99 lbs)                       | 7.3KG(16.09 lbs) | 8KG(17.64 lbs)  |
| Carton Size                    | 23.54*14.09*5.12inches / 598*358*130mm |                  | 28.15*16.14*5.12inches / 715*410*130mm |                  |                 |
| Gross Weight (Without Bracket) | 6.3KG(13.89 lbs)                       | 6.5KG(14.33 lbs) | 7.6KG(16.76 lbs)                       | 8.1KG(17.86 lbs) | 8.8KG(19.4 lbs) |

| Others                 |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Lifespan               | L70 - 100 000 h, @Tq 25°C (2835)                                                                                      |
| Warranty               | 5 years limited warranty in standard, 10 years optional                                                               |
| Certification          | Request for details                                                                                                   |
| Accessories (standard) | Request for details                                                                                                   |
| Accessories (optional) | NEMA socket, Zhaga receptacle, US/Euro standard SPD, photocell, microwave/PIR sensor, support rod, CCT/power turnable |
| Application Field      | Tunnel, urban road & street, residential area, parks, parking lot, riverside & jogging track, sports field, warehouse |

**Important Note!** The provided information is solely for reference; the official measurement report holds higher authority.

\* Note-1: For the power supply in the United States and Canada, in case the input voltage fluctuation ≥240V the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

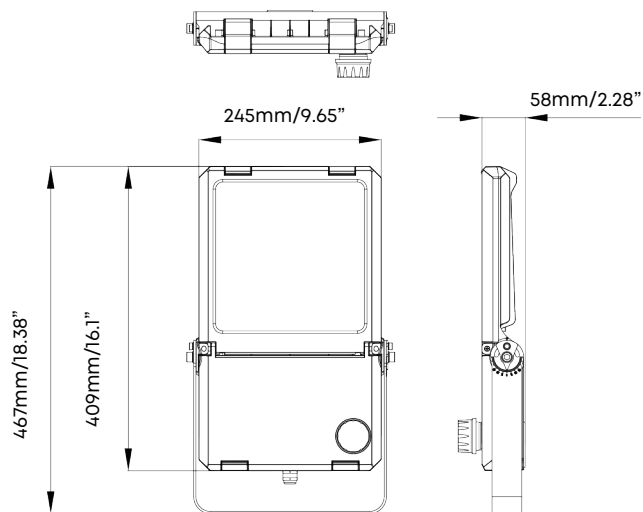
# Ordering Information

| AOK         |             |           |                     |                        |                 |                        |                |
|-------------|-------------|-----------|---------------------|------------------------|-----------------|------------------------|----------------|
| WATTS       | VOLTAGE     | LED CHIPS | TYPE OF SENSOR      | CCT&CRI                | DISTRIBUTION    | MOUNT                  | COLOR          |
| 50WFLC(M)   | NV=100-277V | A2=2835   | 00=None             | XX70=3000K-5000K 70CRI | 15D=15°         | A=Type A               | GR=Gray        |
| 100WFLC(M)  | HV=277-480V | A3=3030   | DV=Dimmable         | XX80=3000K-5000K 80CRI | 25D=25°         | (Yoke mount)           | BK=Black       |
| 150WFLC(M)  |             | A5=5050   | PIR=PIR sensor      |                        | 30D=30°         | B=Type B               | Custom request |
| 150WFLC(L)  |             |           | PH=Photocell        |                        | 45D=45°         | (Trunnion mount)       |                |
| 200WFLC(L)  |             |           | MS=Microwave Sensor |                        | 60D=60°         | C=Type C               |                |
| 240WFLC(L)  |             |           |                     |                        | 90D=90°         | (Trunnion+pole fitter) |                |
| 270WFLC(L)  |             |           |                     |                        | 120D=120°       |                        |                |
| 300WFLC(XL) |             |           |                     |                        | T201(60°*150°)  |                        |                |
| 400WFLC(XL) |             |           |                     |                        | T252(85°*160°)  |                        |                |
| 500WFLC(XL) |             |           |                     |                        | T301(70°*150°)  |                        |                |
|             |             |           |                     |                        | T312(85°*155°)  |                        |                |
|             |             |           |                     |                        | T401(70°*150°)  |                        |                |
|             |             |           |                     |                        | T402(65°*140°)  |                        |                |
|             |             |           |                     |                        | T502(150°*150°) |                        |                |

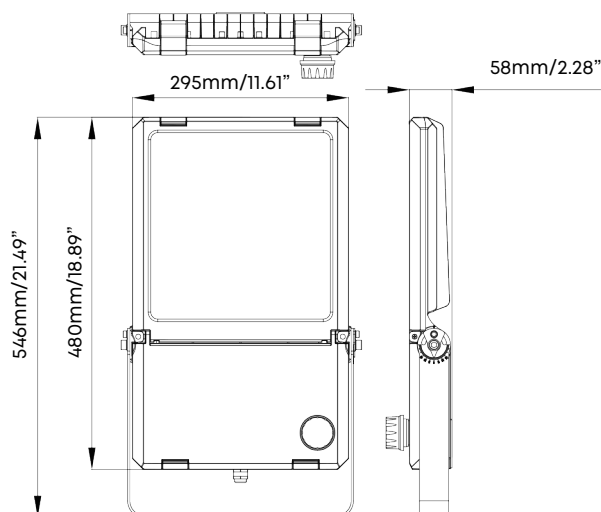
2835/3030: 15°/30°/45°/60°/90°/120°/T201(60°\*150°)/T301(70°\*150°)/T401(70°\*150°)  
5050: 25°/45°/60°/90°/T252(85°\*160°)/T312(85°\*155°)/T402(65°\*140°)/T502(150°\*150°)

## Dimension

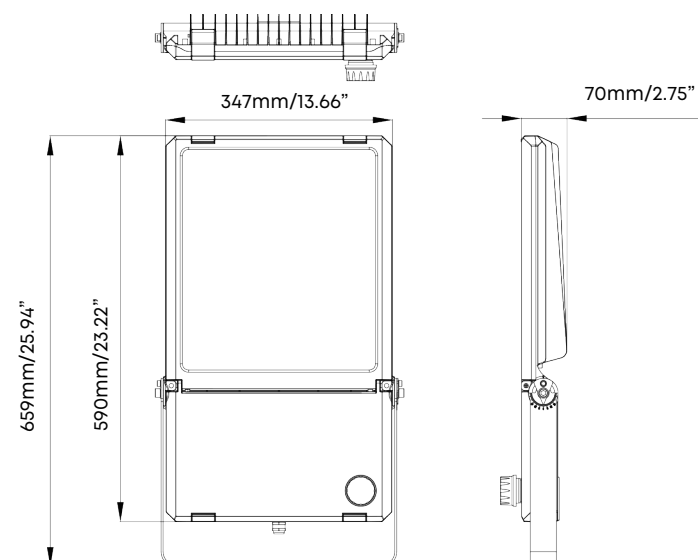
FLC(M)-(50-150W)



FLC(L)-(150-270W)



FLC(XL)-(300-500W)





# Innovative & Tailored Lighting Solutions for **Success**



WARRANTY

5 Year Limited Warranty,  
10 Year Preferred Warranty.

Please consult with our sales for detailed agreement.

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