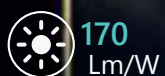CE CB ⬙ RoHS

# ALR02

## Area Light Series

ALR02 is a cost-effective, lightweight, ultra-thin Area Light Series that is at least 10% cheaper than similar options. It is commonly used in outdoor sports venues, swimming pools, industrial sites, logistics parks, car parks, outdoor billboards, road intersections, and architectural lighting.

**170 Lm/W**

**IP66** Wet Location

**IK08** Protection Provide

**5 YEARS WARRANTY**

**3-IN-1 CCT Selectable (Optional)**

**3-IN-1 Wattage Selectable (Optional)**

**kg13**

**Reduced 50% weight Only 13Kg, 500W/600W**

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## 3-in-1 CCT and Wattage Selectable Solutions (Optional)

ALR02 offers a 3-in-1 power and CCT adjustable solution, allowing for flexible application in various locations. *This versatility facilitates better stock distribution for customers, reducing the risk of inventory backlog.*

### ONLY FOR Non-isolated Driver:

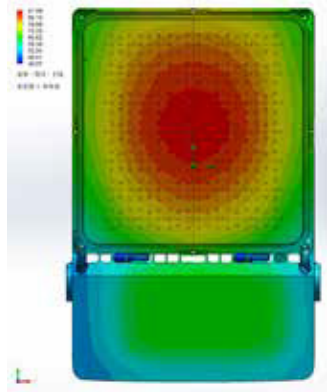3-in-1 CCT Selectable » »   3000K-4000K-5000K
                                           4000K-5000K-6000K

### Isolated and Non-isolated Driver are All Available:

3-in-1 Watt Selectable » »   400: 200W-300W-400W
                                           600: 400W-500W-600W

## Good Heat Management

➤ The ALR02 utilizes high thermal conductivity die-casting AL material, ensuring excellent thermal conductivity.

➤ The separate installation of the driver and LEDs prevents heat effects on the driver.

➤ The convective hole facilitates rapid heat dispersion, enhancing the overall heat dissipation and maintaining performance stability.

## IP66 Dual Waterproof Reduce 10% Probability of Water Leakage

The driver cavity and LEDs cavity of ALR02 are designed separately, allowing for independent waterproofing. This design reduces the leakage rate by 10% compared to integrated designs, improving stability and performance of the light.

## Dual Breath Value Design

ALR02 is equipped with metal breath valves in both the driver and LEDs cavities. These valves maintain a balanced airflow inside and outside the cavities, effectively preventing moisture mist from affecting the electrical components and reducing light attenuation caused by water mist on the luminous surface.

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The metal sheet can be removable, without screws on the surface, and the appearance is complete.

High light efficiency reaches up to 180Lm/W, Standards170Lm/W

## Glass + Lens

ALR02 floodlight features a glass and lens combination for double protection, with anti-impact IK08 rating and high weather resistance. The glass shields the PC lens from UV rays, ensuring long-lasting high brightness illumination.

The convective hole facilitates rapid heat dispersion, enhancing the overall heat dissipation and maintaining performance stability.
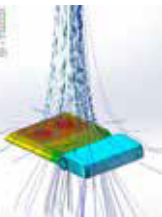
## Robust Bracket with 5-Degree Tick Marks

The U-bracket that offers good adjustments using a 5-degree tick marks knob, providing precise control over the direction of light. This flexibility, combined with its adaptable light types that include both symmetry and asymmetry, ensures accurate illumination in desired positions. This makes the ALR02 an optimal choice for customers who prioritize high construction precision.

U-bracket is offers exceptional strength to withstand outdoor wind pressure, ensuring stability and reliability.

The connection interfaces is reserved, DALI, 0-10V dimming optional.

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## ONE OF THE MOST POPULAR FLOODLIGHTS AMONG AGENTS

The ALR02's expandable power box cover ensures excellent performance and customizable aesthetics, meeting the needs of different agents in various regions and providing tailored solutions for specific customers.
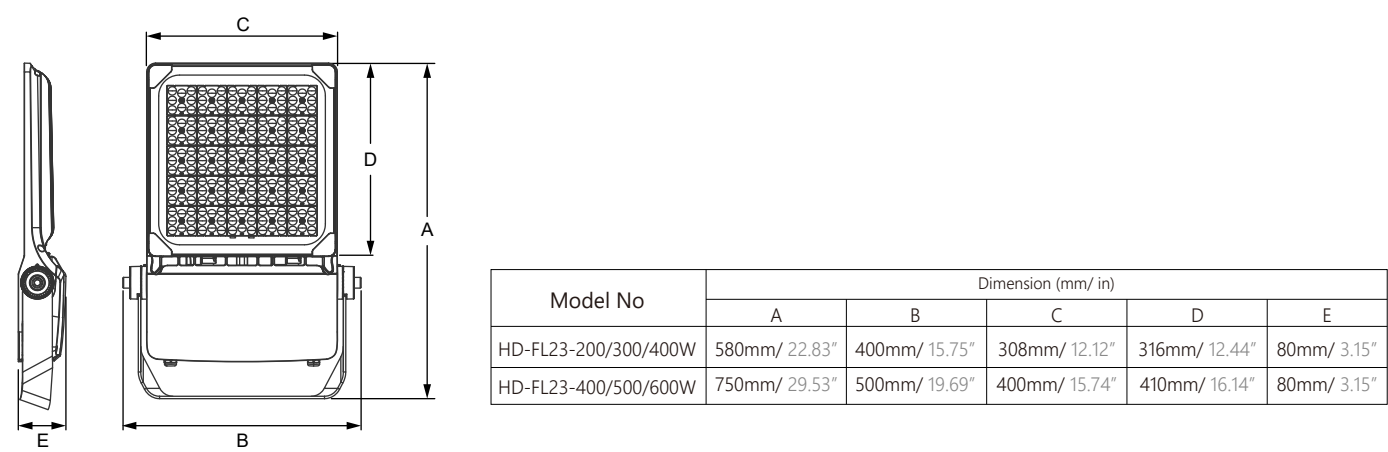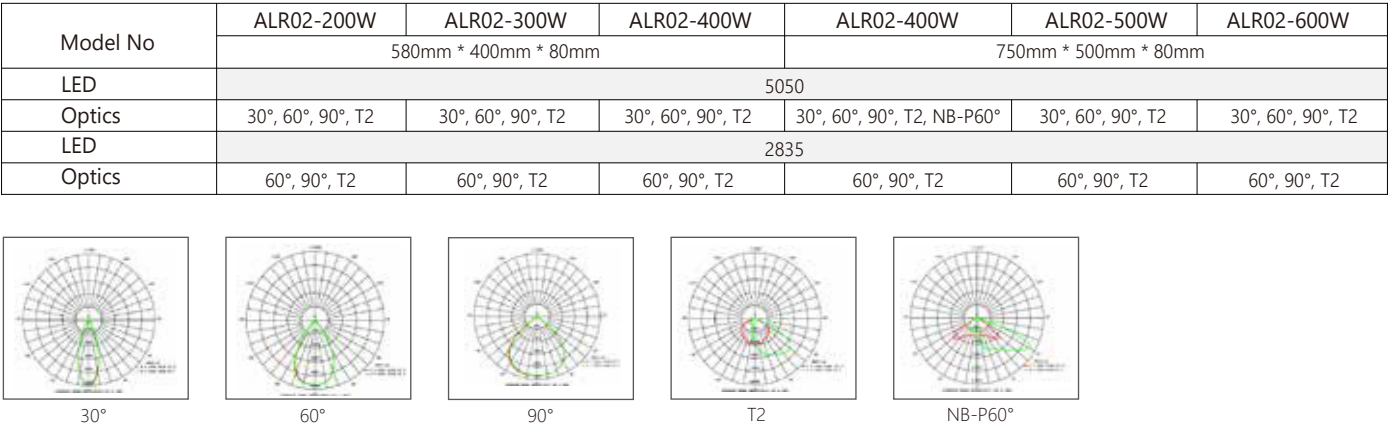
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# Parameters

| Model No. | ALR02-200W | ALR02-300W | ALR02-400W | ALR02-400W | ALR02-500W | ALR02-600W |
|---|---|---|---|---|---|---|
| Wattage (Standards) | 200W | 300W | 400W | 400W | 500W | 600W |
| Light Efficiency (@Beam90°) | | 170Lm/W | | | 170Lm/W | |
| Lumen Output (@4000K) | 34,000Lm | 51,000Lm | 68,000Lm | 68,000Lm | 85,000Lm | 102,000Lm |
| CCT (Standards) | 3000K, 4000K, 5000K, 5700K, 6500K Optional | | | 3000K, 4000K, 5000K, 5700K, 6500K Optional | | |
| Beam Angle | 30° / 60° / 90° / T2 | | | NB-P60° (400W) / 30° / 60° / 90° / T2 | | |
| CRI | 70 | | | | | |
| SDCM | ≤5 | | | | | |
| Input Voltage | 100-277VAC / 220-240VAC  50/60Hz | | | | | |
| Power Factor | ≥0.90 | | | | | |
| THD | ≤20% | | | | | |
| Percent Flicker (%) | <10% | | | | | |
| Surge Protection | 10KV | | | | | |
| Protection Against Electric | Class I | | | | | |
| IP | IP66 | | | | | |
| IK | IK08 | | | | | |
| EPA | 2.16 ft² | | | 3.53 ft² | | |
| Operating Temp Ranger | -40°C~+50°C @Outdoor / -40°F~+122°F @Outdoor | | | | | |
| Intelligent Control | 0-10V / DALI2.0 | | | | | |
| Lifetime | 100,000H (L70B50 @25°C) /  (L70B50 @77°F) | | | | | |
| Net Weight (kg/ lbs) | 7.5 kg±0.5 / 16.5 lbs±1.1 | | | 13 kg±0.5 / 28.6 lbs±1.1 | | |
| Dimension (mm/ in) | 580*400*80mm/ 22.83*15.75*3.15in | | | 750*500*80mm/ 29.53*19.69*3.15in | | |
| CTN (mm/ in) | 640*420*140mm/ 25.20*16.54*5.51in | | | 800*530*140mm/ 31.50*20.87*3.15in | | |
| Warranty | 5 years | | | | | |
| Certificate | CE / CB / ENEC / RoHS | | | | | |
| Brand | LED Vendor: Lumileds<br>Driver Vendor: Sosen, Inventronics (non-isolated / isolated) | | | | | |
| Material | Structure: Die-casting/ADC12<br>Finish: Powder Coated<br>Lens: Polycarbonate+Glass<br>Color: Gray | | | | | |

# Dimension (mm)



| Model No | Dimension (mm/ in) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| HD-FL23-200/300/400W | 580mm/ 22.83" | 400mm/ 15.75" | 308mm/ 12.12" | 316mm/ 12.44" | 80mm/ 3.15" |
| HD-FL23-400/500/600W | 750mm/ 29.53" | 500mm/ 19.69" | 400mm/ 15.74" | 410mm/ 16.14" | 80mm/ 3.15" |

# Photometric Diagrams

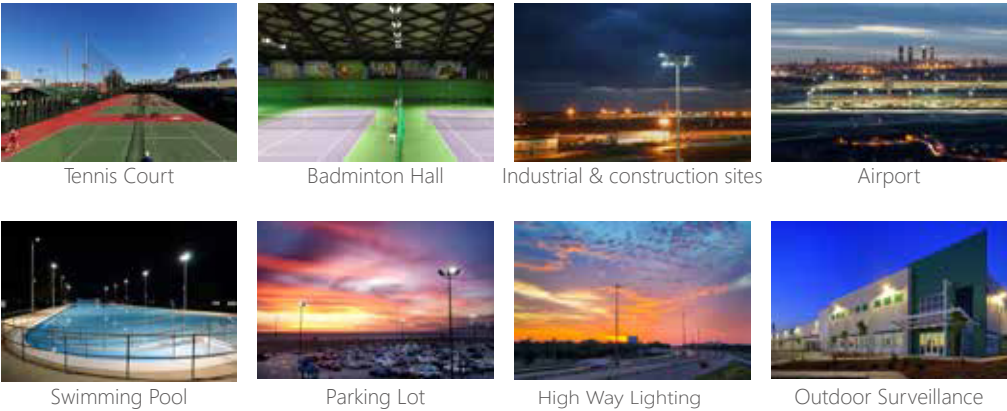| Model No | ALR02-200W | ALR02-300W | ALR02-400W | ALR02-400W | ALR02-500W | ALR02-600W |
|---|---|---|---|---|---|---|
| | 580mm * 400mm * 80mm | | | 750mm * 500mm * 80mm | | |
| LED | 5050 | | | | | |
| Optics | 30°, 60°, 90°, T2 | 30°, 60°, 90°, T2 | 30°, 60°, 90°, T2 | 30°, 60°, 90°, T2, NB-P60° | 30°, 60°, 90°, T2 | 30°, 60°, 90°, T2 |
| LED | 2835 | | | | | |
| Optics | 60°, 90°, T2 | 60°, 90°, T2 | 60°, 90°, T2 | 60°, 90°, T2 | 60°, 90°, T2 | 60°, 90°, T2 |



30°          60°          90°          T2          NB-P60°

# Applications

Outdoor / Indoor / Industrial

➤ Sports & recreational fields
➤ Large-scale outdoor events
➤ Industrial and construction sites
➤ Parking lots and garages
➤ Landscaping and architectural lighting
➤ Security and outdoor surveillance



Tennis Court          Badminton Hall          Industrial & construction sites          Airport



Swimming Pool          Parking Lot          High Way Lighting          Outdoor Surveillance



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