



MASTERING THE LIGHT

High-Performance LED Solutions for Sports, Industry, and Urban Infrastructure.
2025-2026



Shenzhen Zhongchuang Lighting Technology Co., Ltd

Web: www.zcled.com / www.zcleds.com

Tel: +86 755-2334 1126

Add: Xinmei Industrial Park, Shenzhen, China

2026 V1.0

We engineer light for the world's most demanding environments.

From R&D to final assembly, every ZC luminaire is engineered for absolute reliability and strictly compliant with European standards.

- 15+ Years Experience
- ISO 9001
- 100% In-house Testing
- CE / CB / ENEC



ZC LIGHTING: SPECIALIZED. AGILE. RELIABLE.

Backed by a core team with over 15 years of industry expertise, ZC Lighting is a specialized developer and manufacturer of high-power LED illumination. We focus exclusively on demanding environments, engineering systems built to withstand extreme conditions—delivering reliable performance across professional stadiums, shipping ports, airports, highway infrastructure, and heavy industrial facilities.

Unlike mass-market suppliers, our product portfolio prioritizes precision engineering. We focus on functional modularity, advanced thermal management, and strict optical control to ensure consistency, safety, and long-term durability.

Operating under ISO 9001:2015 standards, our primary R&D and manufacturing center is based in Shenzhen, China. To ensure supply chain resilience, agile global delivery, and mitigate tariff impacts for our clients, we leverage a strategic production network in Vietnam. This operational setup allows us to provide highly competitive, tailored engineering solutions and seamless fulfillment to over 50 countries.

ZC Lighting — Engineered for performance. Built for extremes.



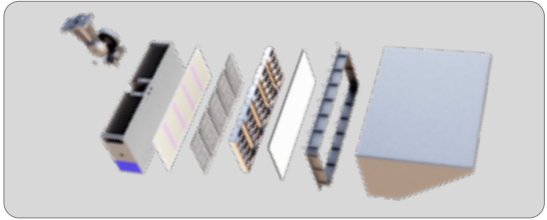
Dark-Sky & Precision Optics



Light the Pitch. Protect the Night.

Our advanced asymmetric optical systems deliver surgical precision. By achieving true zero-backward spill light and maintaining UGR < 19, ZC luminaires guarantee optimal visibility for athletes and HD broadcasting, while strictly complying with local light trespass regulations. Zero glare. Zero neighbor complaints.

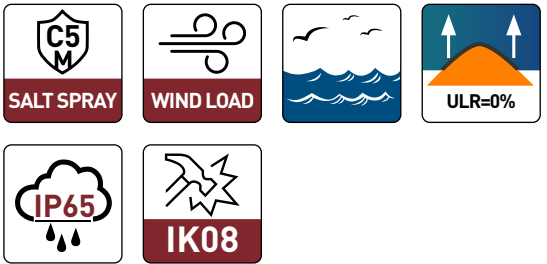
Contractor - Centric Engineering



Slashes Installation and Maintenance Costs.

We understand that high-altitude crane rentals and electrician hours dictate your project's profitability. That's why ZC fixtures feature tool-less quick-release latches, remote gear options, and modular hot-swappable LED engines. We don't just save energy; we save your labor costs.

Armor-Grade Durability



Engineered to Survive the Unforgiving.

Standard die-cast aluminum isn't enough for seaports or mining sites. Our extreme-environment series utilizes dual-layer optical armor (Tempered Glass + PC), C5-M marine-grade anti-corrosion coating, and aerodynamic profiles tested to withstand Category 17 typhoons (65m/s). Built for zero light decay in the harshest elements.

Global Compliance & Smart Ready



Global Standards. Future-Proof Technology.

Every product undergoes rigorous in-house thermal, photometric, and endurance testing to meet the world's most stringent quality benchmarks. Fully certified with international credentials including ENEC, CE, and CB, our luminaires are trusted by contractors across 50+ countries. Furthermore, our infrastructure solutions integrate seamlessly with universal IoT standards—such as Zhaga receptacles and D4i certified drivers—ensuring your projects are ready for tomorrow's smart control ecosystems.

PRODUCTS CONTENTS

Sports & Stadium Lights



P09-12
PL08



P13-16
FL09(Ares)



P17-18
FL18(GameAres)



P19-22
SP02



P23-26
FL26



P27-28
FL20



P29-30
FL19



P31-32
FL16 Plus



P33-34
FL16



P35-36
FL15



P37-38
FL10



P39-42
FL08



P43-44
FL01

High-Mast & Large Area Lights



P47-48
HM01R



P49-50
HM01S

Industrial & Commercial Lights



P53-54
HB21



P55-56
HB20



P57-58
HB19



P59-60
HB17



P61-62
HB16



P63-64
HB15



P65-66
HB13



P67-68
HB12



P69-70
HB10



P71-72
HB09



P73-74
HB06



P75-76
HB05



P77-78
HB22



P79-80
HB23



P81-82
HL02

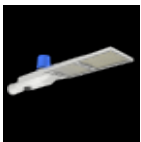


P83-84
HL03

Street, Area & outdoor Lights



P87-88
SL05



P89-90
SL04



P91-92
SL03



P93-94
SL01



P95-96
AL01



P97-98
AL02



P99-100
AL03



P101-102
AL05



P103-104
WP01

General Flood Lights



P107-108
FL06



P109-110
FL04



P111-112
FL03

Project Cases

P115-116
SELECTED PROJECT
REFERENCES

SPORTS AND STADIUM LIGHTING

For stadiums, training fields, tennis courts, and multi-purpose sports facilities.

ZC Sports Lighting covers football fields, tennis courts, stadiums, training grounds, and multi-purpose sports facilities. The range includes integrated square and round floodlights, modular floodlights, tennis-focused solutions, and RGB/RGBW lighting products. With selectable optics, glare-control accessories, adjustable aiming structures, and control options, the products can support different pole heights, field sizes, lighting standards, and project budgets.



Product Range

Integrated Floodlights / Modular Floodlights / Tennis Court Lights / Airport Lights / RGB & RGBW Sports Lights / Control-Ready Sports Lighting

Key Requirements

Glare Control | Precise Aiming | Spill Light Control | Structural Safety





PL08

Light the Court. Not the Neighborhood.

Professional Tennis & Padel Lighting Solutions. Compliant, Low-Glare, and Acceptance-Ready.

*** As night-time tennis and Padel operations grow, contractors face practical challenges: strict light trespass regulations and potential neighborhood complaints. Legacy HID and early LED fixtures often struggle with glare control, spill light management, and high maintenance demands.

*** We focus on delivering measurable results. Designed to international lighting guidelines (LTA/EN), ZC Lighting provides comprehensive support from Dialux simulation to final aiming, ensuring proper illuminance and UGR control to meet municipal inspection requirements.

165
lm/W

240-500
Power Wattage

<19
UGR

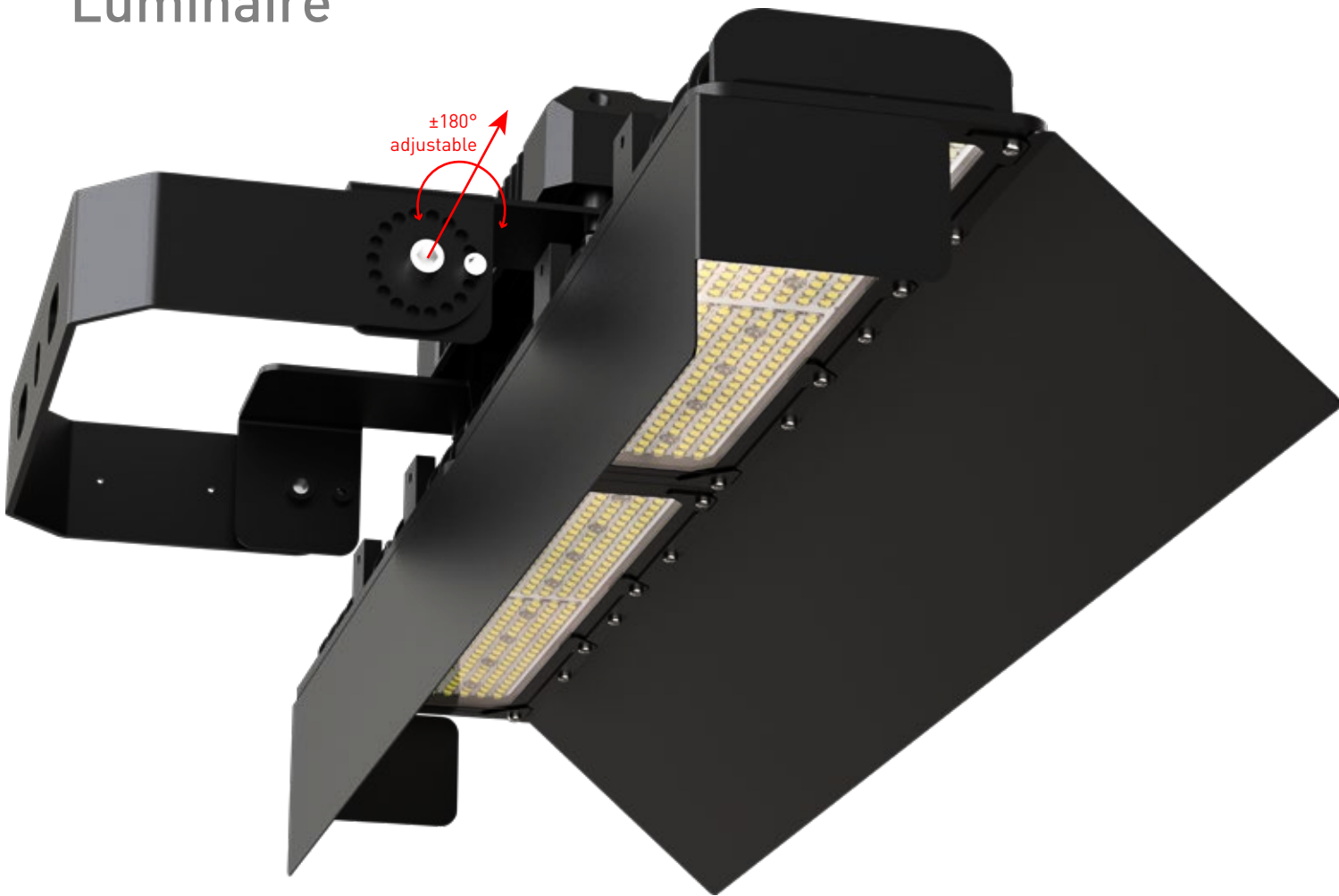
<1%
Flicker

IP66
Ingress
Protection

IK08
Mech.impact
Protection

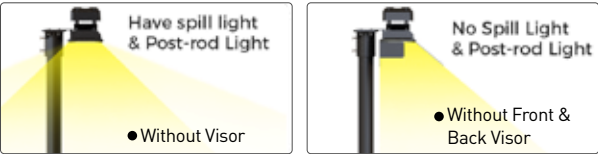
Dedicated Neighbor-Friendly Tennis Luminaire

SP



Precision Light Control

Features asymmetric optics and optional front/back visors. Effectively minimizes backward spill and controls backlight, meeting "Dark Sky" guidelines and BUG rating criteria for residential applications.



Retrofit-Friendly & Flexible Aiming

Designed to utilize existing poles. With top-mount options and a $\pm 180^\circ$ adjustable bracket, it fits most legacy layouts. Available aiming aids help reduce installation deviation and shorten downtime.

UGR < 19 for Visual Comfort

Engineered to reduce high-angle glare. Helps maintain player visibility during lob shots and improves viewing comfort for spectators.

Smart Zoning

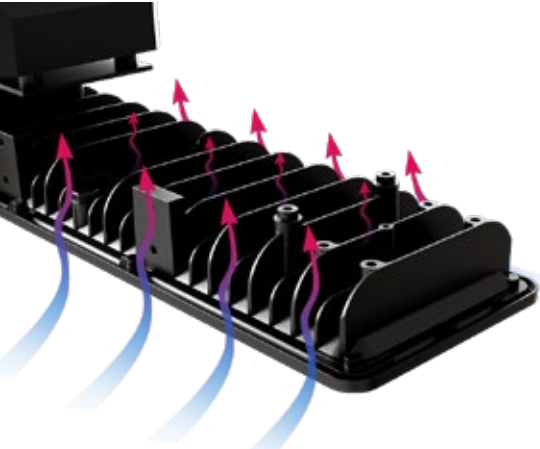
0-10V / DALI dimming capabilities for smooth transitions between match, training, and maintenance lighting scenes.

Dual-Layer Protection

Integrates a die-cast heat sink with a PC + Glass dual-layer cover. Rated IP66 and IK08 for stable performance in outdoor environments (Optional C4/C5-M coating available for coastal projects).

Good Thermal Dynamics

The die-cast aluminum housing features an aerodynamically optimized fin structure to maximize passive heat dissipation. This effectively cools the LED junctions, guaranteeing a lumen maintenance of L80B10 at >100,000 hours, even in demanding ambient temperatures up to 50°C.



Broadcast-Ready & Flicker-Free

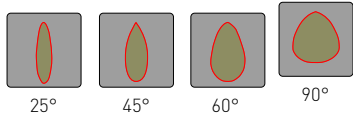
Equipped with ultra-low ripple constant-current drivers, the PL08 achieves a flicker factor of <1%. It fully supports HDTV broadcasting and 1000 fps slow-motion replays without visual banding. Combined with high CRI options (>80/90), it ensures accurate color reproduction for both digital media and the human eye.



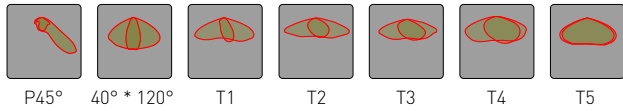
7-Optic Platform: Precision for Any Layout

The PL08 offers 7 distinct light distributions to match diverse court dimensions and pole layouts:

- Symmetric Optics: Optimizes illuminance uniformity for multi-court complexes and varying pole heights (8m-15m).



- Asymmetric Optics: Delivers a sharp rear cut-off, directing light strictly onto the court to prevent light trespass.



* One light fixture covers all project needs, simplifying lighting design and ensuring regulatory compliance.



Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
PL08-240	39,600lm	240W	165lm/W	8.5kg	10kg
PL08-300	51,200lm	300W	160lm/W	8.5kg	10kg
PL08-400	62,000lm	400W	155lm/W	8.5kg	10kg
PL08-500	75,000lm	500W	150lm/W	8.5kg	10kg
PL08-320	52,800lm	320W	165lm/W	12.8kg	15kg
PL08-400	64,000lm	400W	160lm/W	12.8kg	15kg
PL08-500	77,500lm	500W	155lm/W	12.8kg	15kg
PL08-750	112,500lm	750W	150lm/W	12.8kg	15kg

Beam Angle

Symmetric: 25°, 45°, 60°, 90°
Asymmetric: P45°, 40°x120°, T1, T2, T3, T4, T5

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 & 90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 220-240VAC / 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Control: 0-10V Dimming, DMX512, DALI 2

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

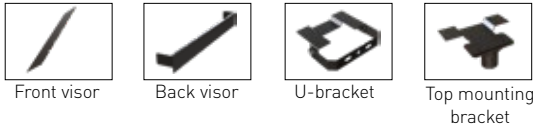
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass
Structure & Material & Finish: Die-cast aluminum heat sink, ADC12, Powder-Coated
Die-cast aluminum top bracket, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated (Optional)

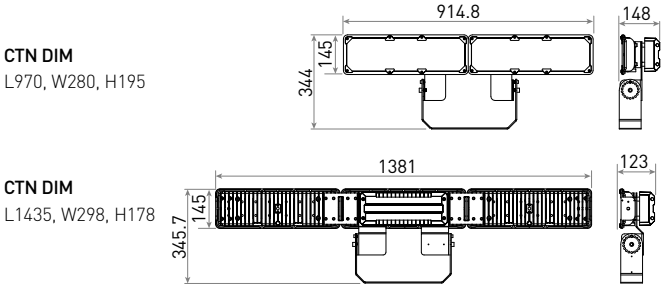
Luminaire Colour: Black

Accessories

Visor: Back visor, Front Visor for options
Bracket: U-bracket, Top-mounting bracket for options

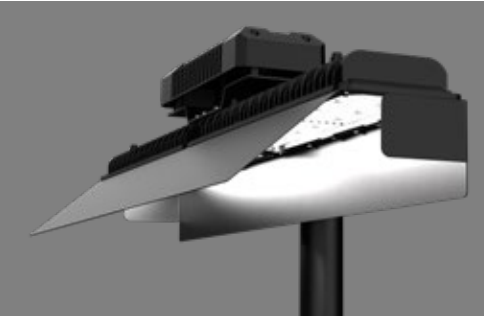
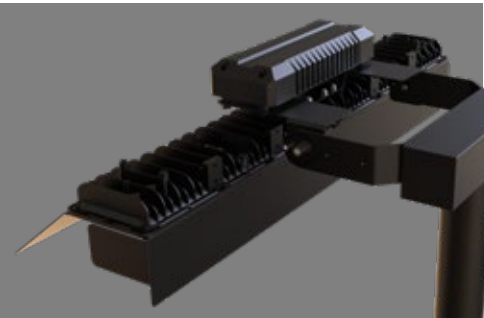


Dimensions[mm]

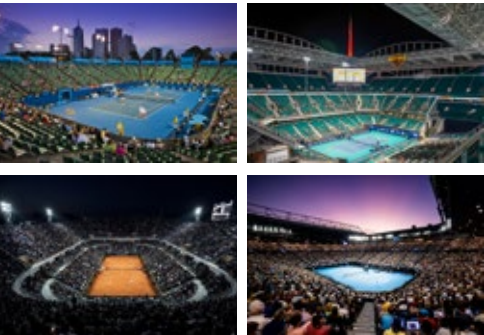


Mounting Type

- Top mounting,
- U-bracket mounting
- U-bracket adjustable mounting



Appilcations





Ares

FL09 1:1 to Replace the Traditional Fixtures

Professional Stadium Lighting. Flicker-Free, High-Efficacy, and Optimized for HID Retrofits.

*** Upgrading professional stadiums often involves replacing inefficient legacy fixtures (such as 2000W metal halides) that struggle to meet modern HDTV broadcasting standards. High energy consumption and inadequate glare control are common technical challenges.

*** The FL09 series is engineered for high-power retrofits and new installations. Providing a system efficacy of up to 180 lm/W and a flicker factor of <1%, it significantly lowers energy consumption while delivering the illuminance and visual comfort required for professional-grade venues.

165
lm/W

500-1800
Power Wattage

18.5KG
Net. Weight

<1%
Flicker

IP66
Ingress
Protection

IK08/IK10
Mech.impact
Protection

Professional High-Output Stadium Luminaire

1-to-1 HID Replacement

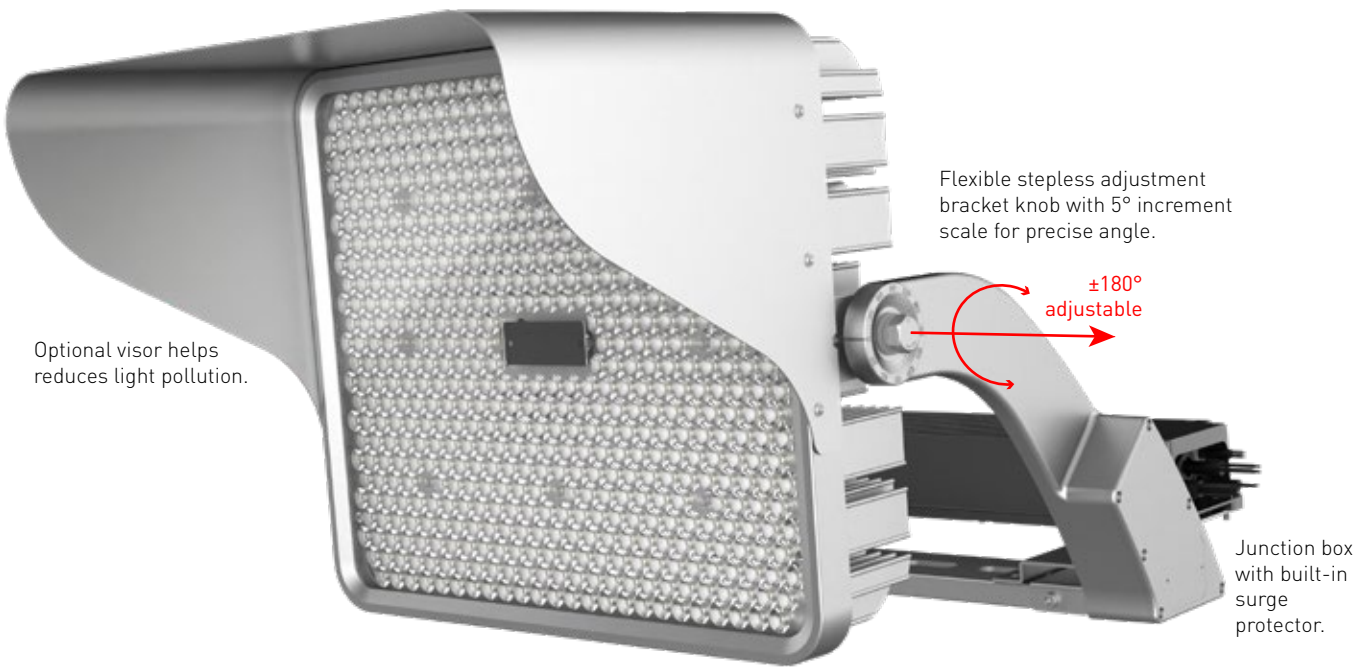
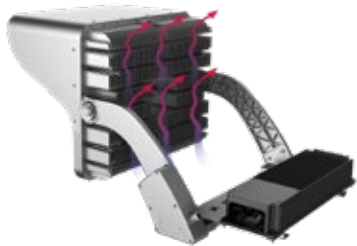
Delivers a system efficacy of up to 180 lm/W with power scaling up to 1800W. Engineered to replace 2000W+ metal halide fixtures, enabling significant reductions in operating energy costs while maintaining required on-field illuminance.

<1% Flicker Factor

Utilizes premium constant-current drivers (DALI-2/DMX512 compatible) to maintain a flicker factor strictly under 1%. Meets technical requirements for HDTV broadcasting and high-speed camera slow-motion replays.

Efficient Heat Management

Cold-forged AL7075 aluminum housing with vertical fins improves heat dissipation, reduces dust buildup, and helps extend driver and luminaire lifespan.



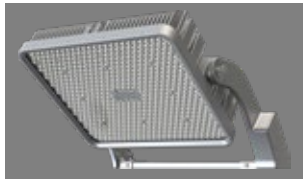
Optional visor helps reduces light pollution.

Flexible stepless adjustment bracket knob with 5° increment scale for precise angle.

±180° adjustable

Junction box with built-in surge protector.

Flexible options: PC lens or PC lens + tempered glass



Single PC lens design offers stable performance with lower cost and no extra parts.



PC lens + tempered glass dual protection delivers IK08 impact resistance and long-lasting brightness by preventing PC lens yellowing and UV aging.

Large Light-Emitting Area, Better Uniformity

The wide emitting surface ensures more even light distribution and stable performance, ideal for professional sports venues.

Optics & Light Control

Offers multiple beam angles (10°, 15°, 20°, NB-P60) to accommodate varying mast heights and field dimensions. Integrated PC lenses and optional shields control stray light and improve visual comfort.

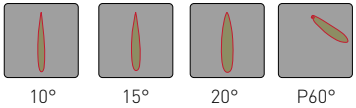
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL09-500	82,500lm	500W	165lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-600	99,000lm	600W	165lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-800	128,000lm	800W	160lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-1000	155,000lm	1000W	155lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-1200	180,000lm	1200W	150lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-1500	217,500lm	1500W	145lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-1650	231,000lm	1650W	140lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°
FL09-1800	243,000lm	1800W	135lm/W	18.5kg	19.9kg	2.3ft² @ tilt 80°

Beam Angle

Symmetric: 10°, 15°, 20°
Asymmetric: P60°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 277-480VAC / 100-277VAC
Power Factor: >0.95
Total Harmonic Distortion: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGB / RGBW

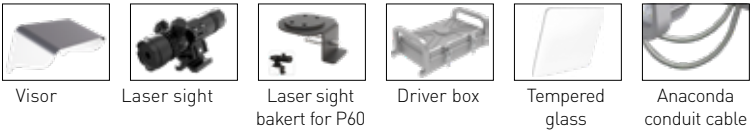
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

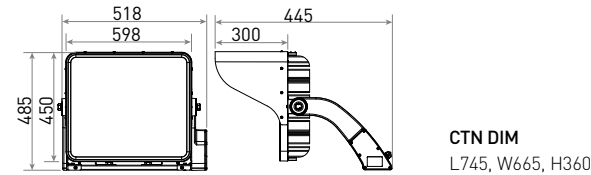
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Cold-forging heat sink, AL1060, Powder-Coated
Die-cast aluminum U-bracket, ADC12, Powder-Coated
Luminaire Colour: Gray

Accessories



Dimensions[mm]



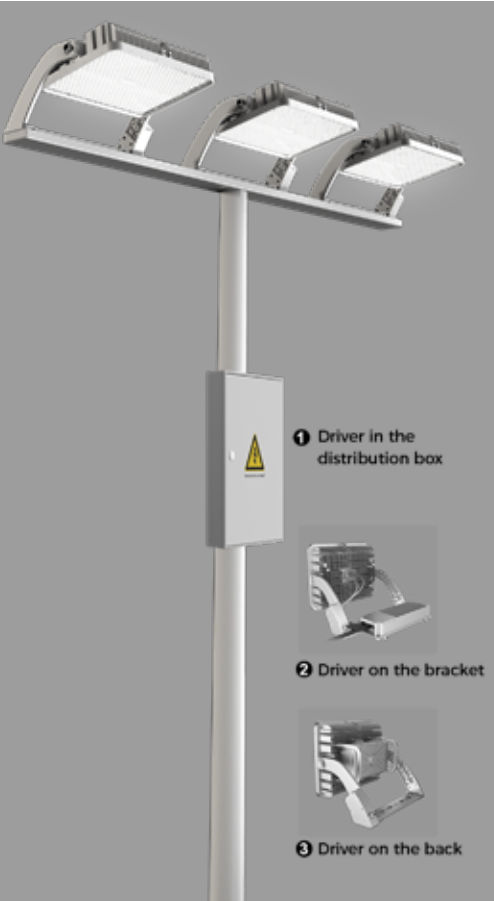
Mounting Type

- U-bracket adjustable mounting

Applications

- Sports and recreational fields
- Large-scale outdoor events
- Industrial and construction sites
- Parking lots and garages
- Crane lighting, Ports and docks
- Airport

Driver installation and application flexibility





GameAres

FL18 High-Output Illumination. Optimized ROI.

Cost-Effective Integrated Sports Lighting for Stadiums and Harsh Environments.

*** Upgrading to high-output LED sports lighting often requires significant initial capital expenditure. Facility managers and contractors need to replace conventional HID systems while adhering to strict budget constraints, without compromising on-field illuminance or reliability.
*** The FL18 series provides a streamlined, highly cost-effective solution. Designed for 1-to-1 replacement of traditional metal halides, it balances an efficacy of up to 178 lm/W with optimized manufacturing processes, reducing initial project costs by up to 30% while meeting professional broadcasting photometrics.

178
lm/W

600-1800
Power Wattage

ROI
Cost-effective

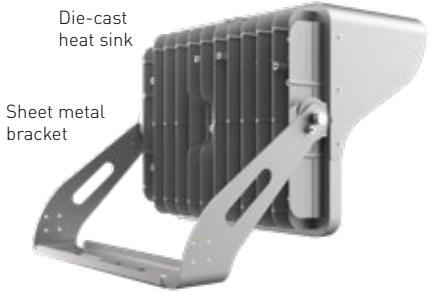
<1%
Flicker

IP66
Ingress Protection

IK08/IK10
Mech.impact Protection

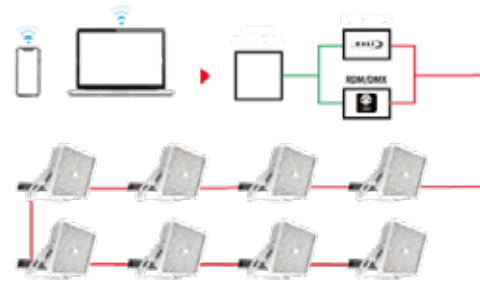
Fetures

- High-efficiency and cost-effective sports lighting solutions
- A die-cast heat sink reduces material costs and streamlines production.
- Uses an integrated sheet metal bracket to cut part count and simplify production/assembly.
- Large light-emitting area, superior uniformity
- Offers 1:1 replacement of HID systems with higher efficiency.
- Supply chain consolidation lowers raw material costs.



Smart Control

Native support for DALI 2.0, DMX512, 0-10 V dimming, and RGB/RGBW scene sequencing (e.g., light shows).



Appilcations

- Sports and recreational fields
- Large-acale outdoor events
- Industrial and construction sites
- Parking lots and garages
- Crane lighting, Ports and docks
- Airport

Mounting Type

- U-bracket adjustable mounting

Specifications

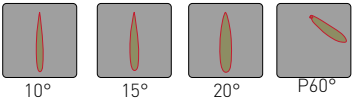
SP

Order Matrix

Model	Lumen	Power	Efficacy [@Ra70,5000K]	Net Weight	Gross Weight	EPA
FL18-600	106,800lm	600W	178lm/W	19kg	21kg	2.5ft²
FL18-800	140,000lm	800W	175lm/W	19kg	21kg	2.5ft²
FL18-1000	165,000lm	1000W	165lm/W	19kg	21kg	2.5ft²
FL18-1200	186,000lm	1200W	155lm/W	19kg	21kg	2.5ft²
FL18-1500	288,000lm	1500W	152lm/W	19kg	21kg	2.5ft²
FL18-1650	247,500lm	1650W	150lm/W	19kg	21kg	2.5ft²
FL18-1800	261,000lm	1800W	145lm/W	19kg	21kg	2.5ft²

Beam Angle

Symmetric: 10°, 15°, 20°
Asymmetric: P60°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 277-480VAC / 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGBW (Customizable)

Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

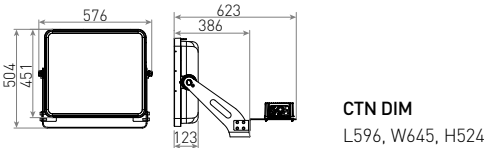
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Gray

Accessories



Dimensions[mm]





SP02

Adaptive Output. Inventory Optimized.

Radial Sports Luminaire with Selectable Wattage and CCT for Multi-Purpose Arenas.

*** Stocking multiple variations of high-power sports fixtures ties up significant capital for distributors. For contractors, specifying the exact wattage and CCT prior to on-site installation often leads to delays if project requirements change. Additionally, replacing classic round HID fixtures with square LED panels can alter the wind resistance profile of legacy masts.

*** The SP02 series addresses these operational challenges with its integrated DIP-switch technology and classic radial form factor. Offering up to 175 lm/W efficacy, it allows on-site adjustments of power and color temperature, streamlining inventory management while providing a direct 1-to-1 aerodynamic replacement for 2000W+ metal halides.

175 lm/W	400-1200 Power Wattage	3-in-1 Wattage & CCT Adjustable	<1% Flicker	IP66 Ingress Protection	IK08/IK10 Mech. Impact Protection
--------------------	----------------------------------	--	--------------------------	--------------------------------------	--

Features

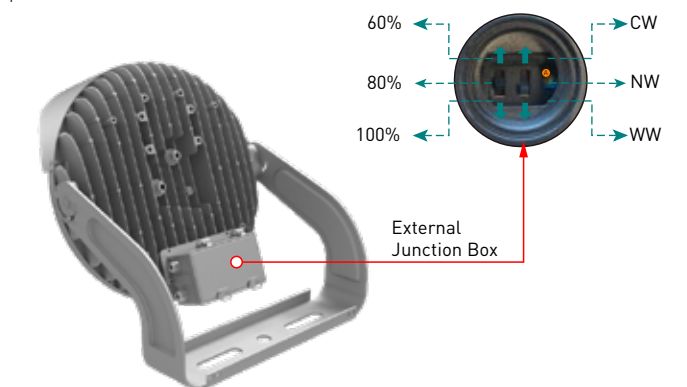
- Integrated structure reduces cost while maintaining professional performance.
- Lightweight design lowers shipping cost and simplifies installation.
- Vertical fins improve airflow for stable heat dissipation.
- Multiple beam angles provide uniform and glare-controlled lighting.
- PC lens with tempered glass improves UV and impact resistance.
- Large light-emitting area enhances illumination uniformity and cooling.
- Supports fixture, pole, or remote driver installation.
- Compatible with DALI, DMX, and 0-10V control systems.
- Tool-free latch design enables fast maintenance.



- 400W / 500W / 600W
- 750W / 800W
- 1000W / 1200W

3-in-1 DIP Switch

Equipped with an external smart junction box featuring DIP switches. Allows on-site selection of 3 wattages (e.g., 1000W/800W/600W) and 3 CCTs. One SKU replaces 9 conventional models, significantly reducing inventory pressure for distributors.



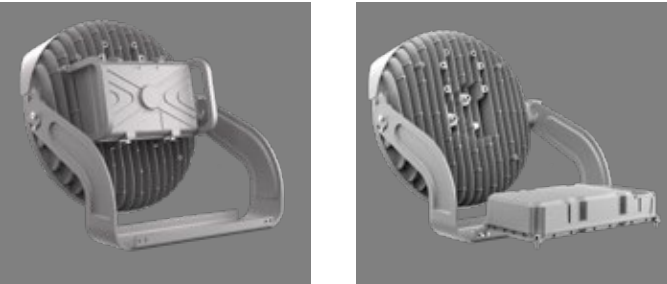
Wattage Adjustable
600W: 600W-500W-400W
1000W: 1000W-800W-600W

CCT Adjustable
3000K-6500K

Radial aerodynamic design enables direct 1:1 replacement of 2000W+ HID fixtures

Round form factor minimizes wind resistance. Structurally matches legacy HID fixtures for seamless aerodynamic and visual integration on existing high masts. High-Efficiency Radial Stadium LED Floodlight — direct 1:1 replacement for 2000W+ HID — cuts energy use by 60% and delivers brighter, tournament-ready light. Ideal for outdoor gyms, sports centers, arenas, rugby fields, and soccer fields.

Driver installation and application flexibility



① Driver on the back ② Driver on the bracket



③ Driver on the poles ④ Driver in the distribution box

Versatile Remote Driver Architecture

The SP02 series features a flexible photoelectric separation design to accommodate varying structural limits and maintenance protocols. The driver can be deployed in four distinct configurations:

- Back-Mounted with Thermal Gap: Installed directly on the rear of the fixture with an engineered air gap, preventing thermal transfer between the LED heat sink and the driver.
- Bracket / Mast Mounted: Secured onto the U-bracket or the upper section of the pole to balance weight distribution.
- Distribution Box Mounted (Remote): Housed in electrical cabinets at the base of the mast. This configuration significantly reduces the aerodynamic drag and deadweight at the top of the pole, while allowing electricians to perform maintenance or DIP-switch adjustments at ground level without requiring aerial work platforms.

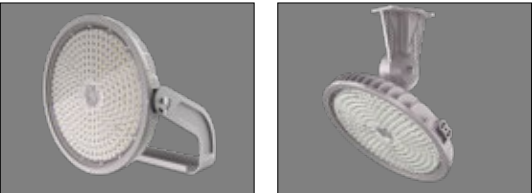


Black Colour for Options



Mounting Type

- U-bracket adjustable mounting
- Overhead Inverted Mounting



U-Bracket Mounting Overhead Inverted Mounting

Accessories



Specifications

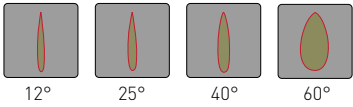


Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
SP02-400	64,000lm	400W	160lm/W	9kg	12.7kg	1.53ft ²
SP02-500	85,000lm	500W	170lm/W	9kg	12.7kg	1.53ft ²
SP02-600	96,000lm	600W	160lm/W	9kg	12.7kg	1.53ft ²
SP02-750	116,250lm	750W	155lm/W	10.5kg	13.5kg	1.54ft ²
SP02-800	120,000lm	800W	150lm/W	10.5kg	13.5kg	1.54ft ²
SP02-1000	175,000lm	1000W	175lm/W	14.5kg	23.5kg	2.69ft ²
SP02-1200	196,000lm	1200W	155lm/W	14.5kg	23.5kg	2.69ft ²

Beam Angle

Symmetric: 12°, 25°, 40°, 60°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K / 3-in-1 CCT adjustable
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 176-500VAC / 100-277VAC / 198-440VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGB/RGBW

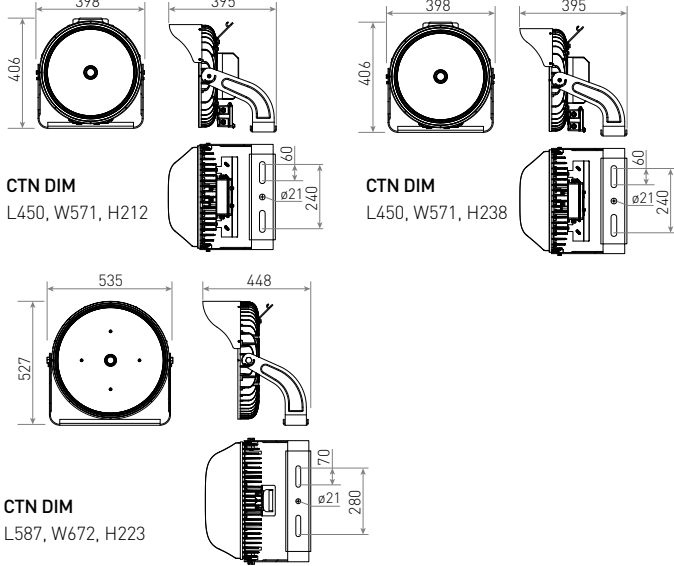
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]





FL26

Dual-Tunable Configuration. Compact Footprint.

Sports Floodlight with Field-Adjustable Wattage and Optics for Variable Layouts.

*** Outdoor court projects often encounter varying pole heights and complex layout changes. Predicting the exact power and optical requirements for every position before installation increases inventory complexity and the risk of on-site rework.
*** The FL26 integrates wattage selection and optical groupings into a single SKU. Delivering up to 170 lm/W efficacy, it allows installers to make immediate adjustments based on actual site conditions. Combined with a versatile driver mounting system, it helps contractors manage mast weight and wind load limitations effectively.

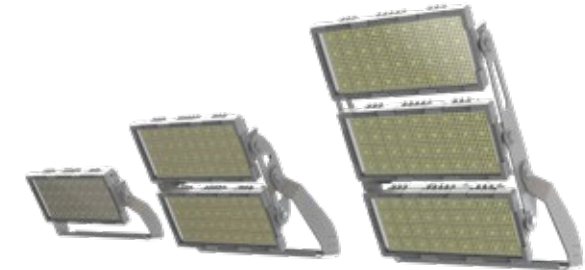
- 170 lm/W
- 300-1800 Wattage Tunable
- 3/4-in-1 Beam Angle Tunable
- RGBW Available
- IP66 Ingress Protection
- IK08 Mech.impact Protection

Fetures

- Field-Adjustable System: Integrates selectable wattage and optics into a single SKU to adapt to varying site layouts.
- Supports integrated, bracket, or remote cabinet installations to optimize mast load capacity.
- Utilizes a tempered glass cover over the PC lens to prevent UV degradation and environmental wear.
- Built-in Junction Box: Features an independent waterproof wiring hub for safe and standardized on-site connections.
- Precision Aiming Scale: Equipped with a $\pm 30^\circ$ adjustable bracket in 5° increments to minimize installation deviation.
- Stray Light Control: Pairs with a dedicated visor to restrict spill light and prevent optical interference in residential areas.
- Low-Flicker Performance: Maintains a flicker factor of $<1\%$, complying with standard illumination requirements for televised sports and video recording.

Field-Adjustable Wattage & Optics

Integrates wattage switching and optical selection within a single fixture. Reduces the need to stock multiple models and accommodates unexpected layout modifications on-site.



- | | | |
|--|---|---|
| Wattage Tunable:
300W (-240W-180W)
400W (-320W-240W)
500W (-400W-300W)
600W (480W-360W) | Wattage Tunable:
600W (-480W-360W)
800W (-640W-480W)
1000W (-800W-600W)
1200W (-960W-720W) | Wattage Tunable:
900W (-720W-540W)
1200W (-960W-720W)
1500W (-1200W-900W)
1800W (-1440W-1080W) |
|--|---|---|

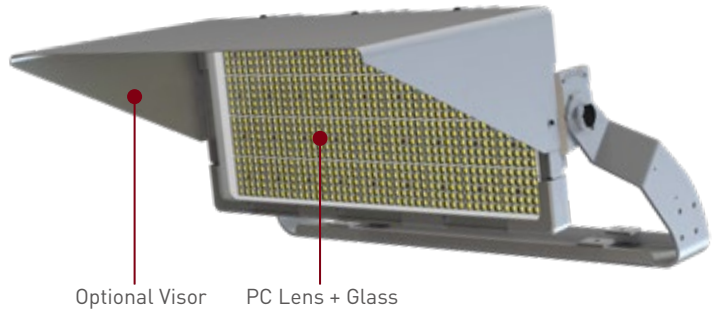
Built-in 5° increment scale with $\pm 30^\circ$ fixture tilt adjustment

Make high-altitude alignment as precise as clockwork. The heavy-duty bracket of the FL26 features a clear, high-precision aiming scale with 5° increments and supports a flexible $\pm 30^\circ$ vertical tilt adjustment. This engineering-focused detail eliminates the guesswork during high-mast installation, ensuring every beam hits the target area exactly as simulated in Dialux, while significantly slashing installation time and labor costs.

One SKU, Multiple Lighting Outcomes SP

FL26 combines wattage selection and optical grouping into a single fixture, allowing on-site adjustment without changing luminaires.

- This significantly reduces:
- Pre-project configuration complexity
 - On-site replacement risks
 - Inventory pressure for distributors



Remote Driver Solutions for Flexible Installation

For projects that require greater flexibility in installation and maintenance, FL26 supports remote driver solutions with three practical layouts: driver mounted on the back of the heat sink with gap, driver mounted on the bracket, or driver installed inside the pole distribution box in multi-head systems. This helps improve cable routing flexibility, system layout planning, maintenance accessibility, and thermal separation between the driver and the luminaire body.



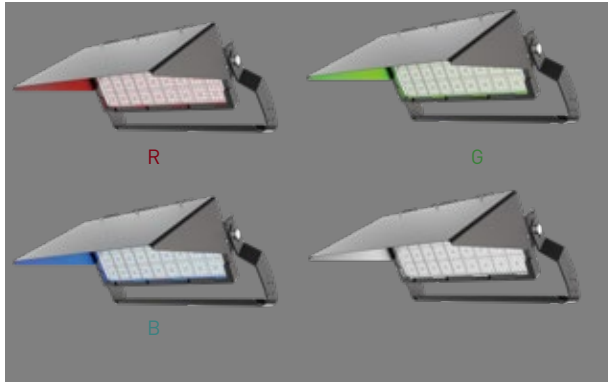
Flexible Optics Configuration for Different Mounting Heights and Applications

FL26 is designed with a flexible optics system to adapt to real project conditions, not fixed layouts. In addition to grouped beam options for fast on-site adjustment, it also supports individual beam angles for precise lighting design. This allows one luminaire platform to cover a wide range of mounting heights, throw distances, and field layouts — from compact courts to large-area sports lighting systems.

Selectable Beam Group	Recommended Mounting Height	Typical Applications	Typical Venue Size	Example
20°-30°-40°-50° (4-in-1 Narrow to Medium)	approx. 12-32 m	Professional stadiums, high-mast systems, long-throw targeting, club-level football fields.	Large football pitches and medium-to-large sports fields.	
60°-70°-90° (3-in-1 Wide Flood)	approx. 6-15 m	Basketball courts, tennis courts, school sports grounds, parking lots, aprons, open areas.	28×15m basketball courts, 23.77×10.97m tennis courts, wide areas.	
Asymmetric (Dual-asymmetric Options)	approx. 8-12 m	Perimeter mounting, neighbor-friendly residential sports courts, strict glare-control zones.	Padel courts, side-mast football fields, roadside sports venues.	
10° / 15° / 20° / 30° / 45° / 60° / 90° / 120° / 80°x152° / 80°x145° / 120°x148° / 45°x105° / 70°x100°	Based on design	Projects requiring precise optical control	Customized lighting layouts	/

*** Note: Recommended application ranges below are for project reference only. Final beam selection should be confirmed by lighting simulation according to actual pole positions, target illuminance, and uniformity requirements.

RGBW control available



Black colour available



Specifications

Order Matrix

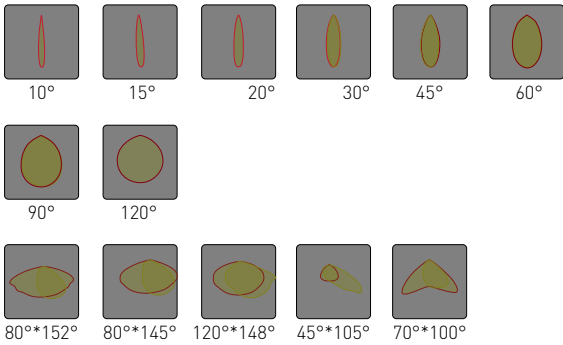
	Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
	FL26-300	51,000lm	300W	170lm/W	11.5kg	13kg
		40,800lm	240W	170lm/W	11.5kg	13kg
		30,600lm	300W	170lm/W	11.5kg	13kg
		66,000lm	400W	165lm/W	11.5kg	13kg
	FL26-400	52,800lm	320W	165lm/W	11.5kg	13kg
		39,600lm	240W	165lm/W	11.5kg	13kg
		80,000lm	500W	160lm/W	11.5kg	13kg
		64,000lm	400W	160lm/W	11.5kg	13kg
	FL26-500	48,000lm	300W	160lm/W	11.5kg	13kg
		93,000lm	600W	155lm/W	11.5kg	13kg
		74,400lm	480W	155lm/W	11.5kg	13kg
		55,800lm	360W	155lm/W	11.5kg	13kg
	FL26-600	102,000lm	600W	170lm/W	22kg	25kg
		81,600lm	480W	170lm/W	22kg	25kg
		61,200lm	360W	170lm/W	22kg	25kg
		132,000lm	800W	165lm/W	22kg	25kg
	FL26-800	105,600lm	640W	165lm/W	22kg	25kg
		79,200lm	480W	165lm/W	22kg	25kg
		160,000lm	1000W	160lm/W	22kg	25kg
		128,000lm	800W	160lm/W	22kg	25kg
	FL26-1000	96,000lm	600W	160lm/W	22kg	25kg
		186,000lm	1200W	155lm/W	22kg	25kg
		148,800lm	960W	155lm/W	22kg	25kg
		111,600lm	720W	155lm/W	22kg	25kg
	FL26-1200	153,000lm	900W	170lm/W	30kg	33kg
		122,400lm	720W	170lm/W	30kg	33kg
		91,800lm	540W	170lm/W	30kg	33kg
		198,000lm	1200W	165lm/W	30kg	33kg
	FL26-1500	158,400lm	960W	165lm/W	30kg	33kg
		118,800lm	720W	165lm/W	30kg	33kg
		240,000lm	1500W	160lm/W	30kg	33kg
		192,000lm	1200W	160lm/W	30kg	33kg
	FL26-1800	144,000lm	900W	160lm/W	30kg	33kg
		279,000lm	1800W	155lm/W	30kg	33kg
		223,200lm	1440W	155lm/W	30kg	33kg
		167,400lm	1080W	155lm/W	30kg	33kg

EPA by Tilt Angle

Tilt Angle	1 Module	2 Module	3 Module
10°	0.98ft²	1.25ft²	1.52ft²
20°	1.13ft²	1.66ft²	2.19ft²
30°	1.24ft²	2.02ft²	2.80ft²
40°	1.31ft²	2.31ft²	3.31ft²
50°	1.34ft²	2.54ft²	3.74ft²
60°	1.34ft²	2.69ft²	4.05ft²
70°	1.35ft²	2.81ft²	4.30ft²
80°	1.35ft²	2.89ft²	4.44ft²
90°	1.36ft²	2.89ft²	4.46ft²

Selectable Beam Angle

Symmetric: 4-in-1[20°-30°-40°-50°] / 3-in-1[60°-70°-90°] / 10° / 15° / 20° / 30° / 45° / 60° / 90° / 120° for options
Assymetric Selectable: 80°x152° / 80°x145° / 120°x148° / 45°x105° / 70°x100°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 176-500VAC / 100-277VAC / 198-440VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 10kV, 20kV [External SPD] Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, D4i, RGB/RGBW

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

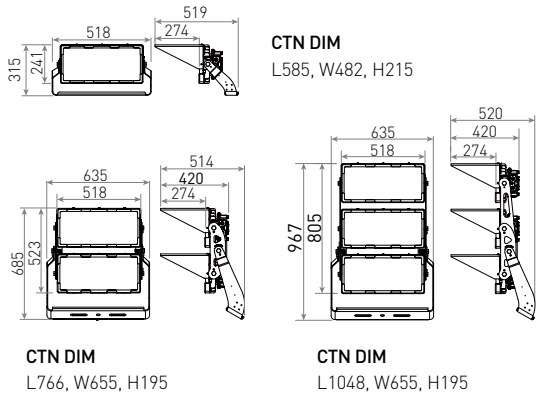
Mechanical and Housing

Optical Cover Type: Polycarbonate lens only, Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated; Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Gray, Black

Accessories



Dimensions[mm]





FL20

Aviation-Grade Cutoff. Zero Uplight Control

Full-Cutoff Modular LED Floodlight Engineered for Airport Aprons and Heavy Infrastructure.

*** Lighting critical infrastructure such as airport aprons, logistics hubs, and highway interchanges presents a unique challenge: fixtures must deliver massive forward horizontal illumination without generating any upward stray light or glare that could blind pilots, tower operators, or high-speed drivers. Standard sports lights fail to meet these strict aviation and traffic safety regulations.

*** The FL20 addresses this with a specialized aviation-grade full-cutoff housing. By physically restricting light emission to the forward and downward planes, it guarantees 0% upward light spill. Fortified with 3G vibration resistance and a driver-isolated thermal architecture, the FL20 guarantees ultra-reliable, glare-free 24/7 operation for the world's most demanding high-mast environments.

170
lm/W

250-1200
Power Wattage

0%
Uplight

3G
Vibration

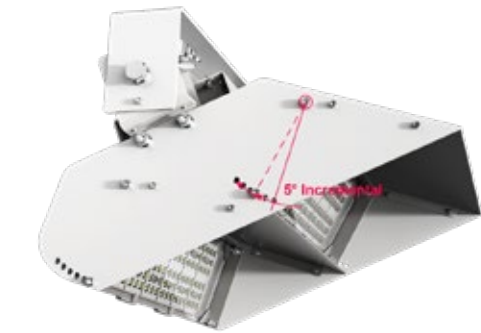
<1%
Flicker

IP66
Ingress
Protection

IK08/IK10
Mech.impact
Protection

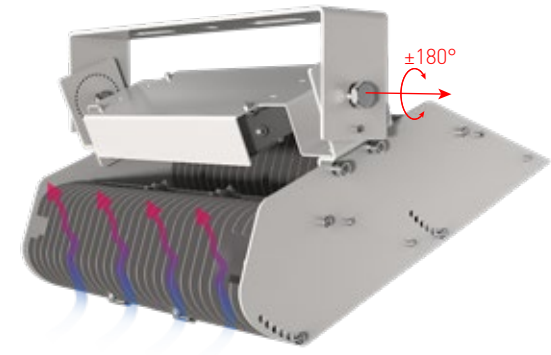
Fetures

- Full-Cutoff Design: Specialized shielding ensures 0% upward light spill—protecting pilot and tower visibility.
- 3G Vibration Rated: Reinforced for 3G high-frequency vibration; certified for airport masts and bridges.
- Dual-Level Precision Aiming: $\pm 70^\circ$ bracket tilt + $\pm 25^\circ$ module fine-tune (5° steps) for pinpoint targeting.
- Driver-Isolated Thermal Layout: Driver mounted away from module heat sink—enhancing convection and enabling 24/7 reliability.
- Dual-Layer Optical Armor: Tempered glass over precision PC lenses—blocks UV yellowing and resists harsh outdoor abrasion.
- Multi-Scenario Optics: Symmetric, Asymmetric, and T1-T5 road distributions for aprons, stadiums, and highways.
- Flicker-Free Performance: Premium drivers deliver stable, flicker-free light—critical for 4K/8K security surveillance.



Airport-Specific Full-Cutoff Design

Airport aprons and complex highway interchanges demand precise horizontal lux with absolute restriction on vertical glare. The FL20 features a specialized mechanical cutoff housing that fully shields the light engine. This structural boundary eliminates all stray light above the 90° horizontal plane (0% uplight). It effectively prevents light pollution, secures visual comfort for ground crews, and ensures critical flight paths and traffic lanes remain free of blinding glare.



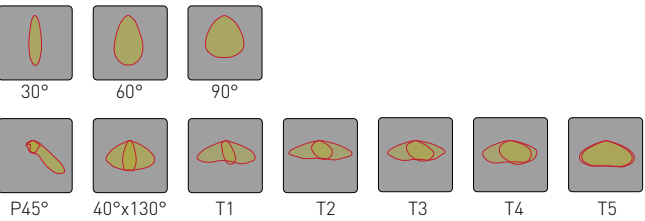
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL20-400	56,000lm	400W	140lm/W	15.5kg	17kg	1.4ft²
FL20-600	78,000lm	600W	130lm/W	15.5kg	17kg	1.4ft²

Beam Angle

Symmetric: 30°, 60°, 90°
Asymmetric: P45°, 40°x130°, T1, T2, T3, T4, T5



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K / 3-in-1 CCT adjustable
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 200-480VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2

Lifespan and Warranty

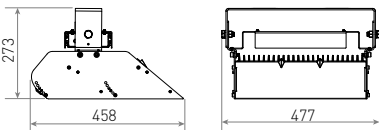
Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Die-cast U-bracket, ADC12, Powder-Coated

Luminaire Colour: White

Dimensions[mm]



CTN DIM
L525, W505, H330





FL19

Cost-Optimized Output. Ultra-Lightweight Engineering.

High-Wattage Stadium Floodlight Designed to Maximize Structural Safety and Minimize Upgrades.

*** Replacing legacy 2000W+ HID systems often pushes existing high masts beyond their structural load and windage limits. Contractors are frequently forced into costly pole reinforcements or replacements when transitioning to heavy, framed LED fixtures.
*** The FL19 series eliminates the traditional outer frame, utilizing a direct-mount modular die-cast architecture. This breakthrough allows the fixture to deliver up to 360,000 lumens (2250W) at a mere 25kg. It drastically reduces the effective projected area (EPA) and deadweight, enabling direct 1-to-1 high-power retrofits without the need for expensive infrastructure upgrades.

170
lm/W

600-2250
High-Wattage

5°
Tilted Light

18/25kg
Net Weight

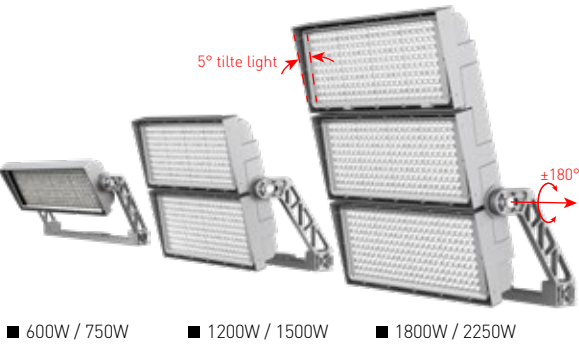
RGBW
Available

IP66
Ingress Protection

IK08
Mech.impact Protection

Fetures

- Outputs 360,000 lumens (2250W) at just 25kg, compatible with legacy masts.
- A 5° inclined light surface naturally suppresses backward spill and improves forward uniformity.
- Supports AC200-480V / 180-528V inputs, optimized for large-scale industrial and stadium grids.
- Remote Driver: Supports ground or bracket mounting to reduce mast payload and aerodynamic drag.
- Glass + PC Shield: Tempered glass protects PC lenses from UV yellowing and environmental wear.
- <1% Flicker: Premium drivers ensure compliant lighting for HDTV sports broadcasting.
- Precision Optics: 10°, 20°, and P50 beam angles optimize illuminance across different mast heights.



Built-in 5° Tilted Optics

Features a 5° forward-tilted optical surface that inherently minimizes backward spill light and rear glare—eliminating bulky external visors, improving forward uniformity, and meeting dark-sky and residential lighting requirements.

Ultra-Lightweight Design

Delivers high lumen output in a compact, frameless direct-mount design: 1500W weighs just 18kg; 2250W only 25kg. This exceptional power-to-weight ratio reduces mast payload and wind load—enabling 1:1 high-power retrofits without structural reinforcement.



Specifications

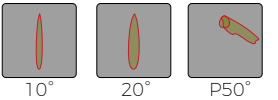
SP

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL19-600	102,000lm	600W	170lm/W	11kg	17kg	2.25ft²
FL19-750	120,000lm	750W	160lm/W	11kg	17kg	2.25ft²
FL19-1200	204,000lm	1200W	170lm/W	18kg	26kg	2.98ft²
FL19-1500	240,000lm	1500W	160lm/W	18kg	26kg	2.98ft²
FL19-1800	306,000lm	1800W	170lm/W	25kg	35kg	4.11ft²
FL19-2250	360,000lm	2250W	160lm/W	25kg	35kg	4.11ft²

Beam Angle

Symmetric: 10°, 20°
Asymmetric: P50°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K / 3-in-1 CCT adjustable
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 200-480VAC / 198-440VAC / 180-528VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGB/RGBW

Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

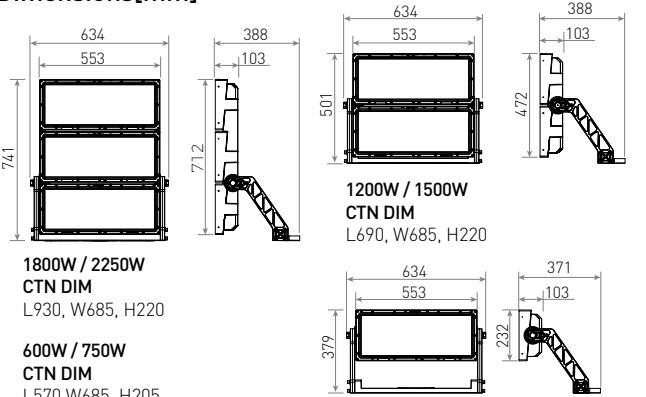
Optical Cover Type: Polycarbonate lens + Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Die-cast U-bracket, ADC12, Powder-Coated

Luminaire Colour: Gray

Accessories



Dimensions[mm]





FL16 Plus

Advanced Thermal Engineering. Scalable High Output.

High-Power LED Sports Luminaire: Aluminium skiving fins + dual-layer optical protection

*** Professional sports venues—and coastal or industrial-adjacent arenas—face harsh environments: airborne dust, salt spray, and intense UV rapidly degrade exposed polycarbonate lenses, causing light loss and yellowing. High-wattage sports lighting concentrates heat in tight spaces. Traditional die-cast heat sinks cool poorly, risking accelerated lumen depreciation or excessive weight that overloads legacy high masts.

*** FL16 Plus is built for long-term reliability in demanding conditions. A tempered glass cover protects precision polycarbonate optics from abrasion and UV damage. Its 1060 pure aluminum skived heat sink enables sustained 500–1800 W output and outstanding lumen maintenance—even in the harshest outdoor environments.

155
lm/W

500-1800
High-Wattage

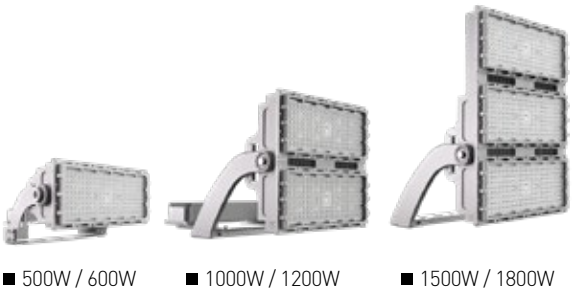
<1%
Flicker

IP66
Ingress
Protection

IK08
Mech.impact
Protection

Fetures

- Skived Aluminum Fins: 1060 pure aluminum fins maximize cooling surface area for stable high-power operation.
- Integrated Thermal & Modular Optics: Single-piece skived heatsink with convection channels supports 1–3 independent LED/optical modules—scalable output from 500W to 1800W.
- High System Efficacy: Up to 155 lm/W, delivering up to 261,000 lumens.
- Spill Light Visor (Optional): Mechanical visor blocks upward light to protect surrounding areas.
- Glass + PC Lens Shield: Tempered glass protects precision PC lenses from UV yellowing and environmental wear.
- Precision Beam Options: Selectable beam angles (10°–60° + P50) optimize uniformity across mounting heights.
- Laser Alignment Ready: Built-in interface for attachable laser tool—ensures accurate on-site aiming.



Unibody Skiving with Convective Channels

Unlike standard modular fixtures with physically separated components, the FL16 Plus features a single, continuous 1060-aluminum skived heat sink. Strategic convective air channels are engineered into this unibody platform to optimize passive vertical airflow. Independent light engines—comprising LEDs, PCBs, and lenses—are then mounted onto this unified thermal base. This hybrid architecture maximizes structural rigidity and thermal mass while enabling scalable output from 500 W to 1800 W.



Specifications

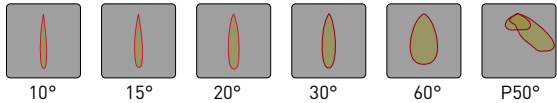
SP

Order Matrix

Model	Lumen	Power	Efficacy [@Ra70,5000K]	Net Weight	Gross Weight	EPA
FL16 Plus-500	77,500lm	500W	155lm/W	11.5kg	12.5kg	1.24ft²
FL16 Plus-600	87,000lm	600W	145lm/W	11.5kg	12.5kg	1.24ft²
FL16 Plus-1000	155,000lm	1000W	155lm/W	22.5kg	24kg	2.40ft²
FL16 Plus-1200	174,000lm	1200W	145lm/W	22.5kg	24kg	2.40ft²
FL16 Plus-1500	232,500lm	1500W	155lm/W	35.5kg	37kg	3.62ft²
FL16 Plus-1800	261,000lm	1800W	145lm/W	35.5kg	37kg	3.62ft²

Beam Angle

Symmetric: 10°, 15°, 20°, 30°, 60°
Asymmetric: P50°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 198-528VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10Kv, 20Kv (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2

Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

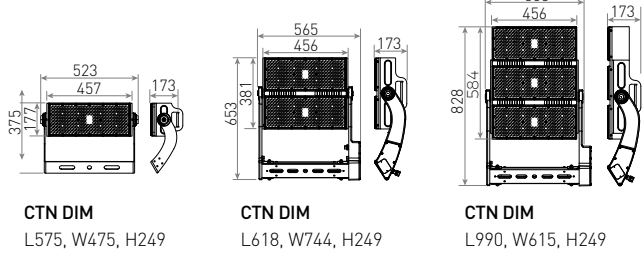
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass
Structure & Material & Finish: Skived Heat Sink, AL1060, Powder-Coated
Steel Metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Gray

Accessories



Dimensions[mm]





FL16

Precision Skiving Engineering. Maximized ROI.

High-Efficacy Sports Light for Optimized Infrastructure Upgrades.

*** Municipal and standard outdoor sports projects require powerful illumination, yet strict budgets and pole weight limits often restrict upgrade options. Traditional heavy die-cast fixtures force contractors into compromising between light output and structural safety.

*** The FL16 series maximizes performance without unnecessary weight. Engineered with a 1060 pure aluminum unibody skived heat sink and a streamlined polycarbonate (PC) optical system, it drastically reduces deadweight. Delivering up to 170 lm/W efficacy, this architecture provides a highly cost-effective, high-lumen solution for 1-to-1 retrofits on legacy masts.

155
lm/W

500-1800
High-Wattage

<1%
Flicker

IP66
Ingress
Protection

IK08
Mech.impact
Protection

Fetures

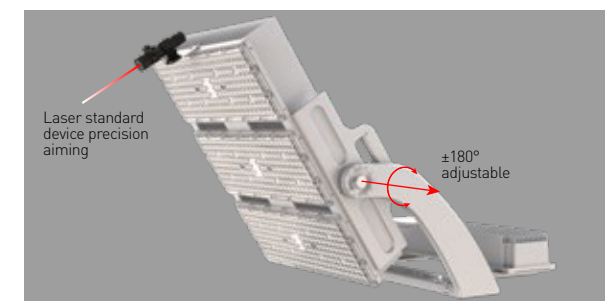
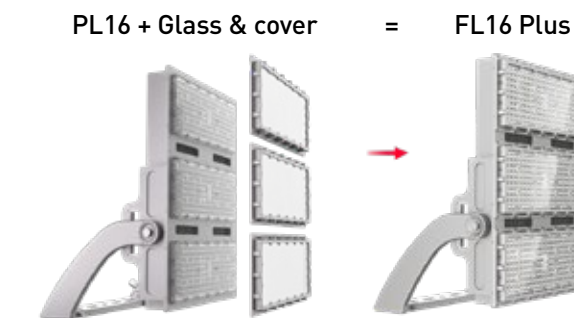
- Unibody Skiving Thermal: Uses 1060 aluminum fins skived from a solid block—no thermal joints, continuous cooling.
- Ultra-Lightweight Profile: PC-only optical design cuts fixture weight to ≤27 kg (at 1800W), maximizing mast payload.
- High-Efficacy Output: Up to 170 lm/W system efficacy; up to 297,000 lumens at full power.
- Scalable Modules: 1–3 independent light engines on one thermal base—500W to 1800W scalable.
- Dual-Axis Aiming: Bracket tilt 0–30° (5° increments); module rotation 0–180°.
- Spill Light Visor: Optional directional visor blocks upward light and prevents light trespass.
- Laser Alignment Tool: Compatible with attachable laser for precise on-site photometric layout setup.



■ 1500W / 1800W ■ 1000W / 1200W ■ 500W / 600W

Maximum Adaptability. Minimum Inventory

The FL16 and FL16 Plus share the identical high-performance skived chassis. The standard FL16 offers a lightweight, highly cost-effective solution with exposed precision lenses. When facing harsh coastal or industrial environments, simply retrofitting the modular tempered glass and visor kit instantly transforms the fixture into the armored FL16 Plus. This shared architecture empowers distributors and contractors to adapt to any project demand on-site, drastically reducing inventory pressure.



Specifications

SP

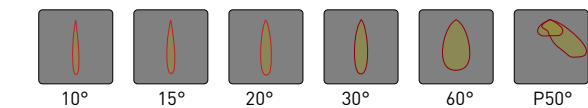
Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL16-500	85,000lm	500W	170lm/W	12.5kg	14.5kg	1.24ft²
FL16-600	96,000lm	600W	160lm/W	12.5kg	14.5kg	1.24ft²
FL16-1000	170,000lm	1000W	170lm/W	20kg	22kg	2.40ft²
FL16-1200	192,000lm	1200W	160lm/W	20kg	22kg	2.40ft²
FL16-1500	255,000lm	1500W	170lm/W	27kg	29kg	3.62ft²
FL16-1800	288,000lm	1800W	160lm/W	27kg	29kg	3.62ft²

Beam Angle

Symmetric: 10°, 15°, 20°, 30°, 60°

Asymmetric: P50°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K

CRI: >70, 80, 90 & TLCI90 (optional)

SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 198-528VAC

Power Factor: >0.95

Total Harmonic Distortion: <15% @480Vac 60Hz, 25°C, Full load

Surge Protection: 10kV, 20kV (External SPD) Optional

Electrical Protection: Class I

Control: 0-10V Dimming, DMX512, DALI 2

Lifespan and Warranty

Operating Temperature: -40°C to +50°C

Life Time of LED @Ta+25°C: 50,000Hours

Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens, Tempered glass optional

Structure & Material & Finish: Skived Heat Sink, AL1060, Powder-Coated

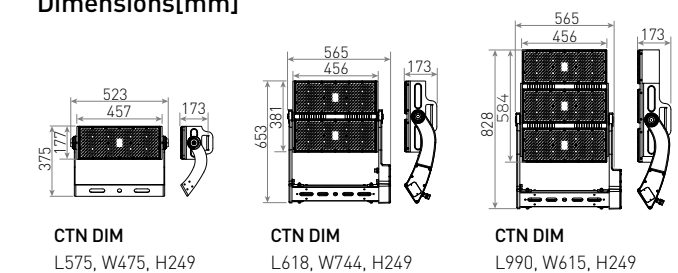
Steel Metal U-bracket, SPCC, Powder-Coated

Luminaire Colour: Gray

Accessories



Dimensions[mm]





FL15

Scalable Output. Modular Flexibility.

Multi-Module LED Floodlight for Large-Scale Sports and Aviation Infrastructure.

*** Large-scale infrastructure projects, such as stadium complexes and airport aprons, require extreme variations in lumen output and mounting heights. Specifying completely different luminaire series for each zone complicates procurement, disrupts visual consistency, and multiplies maintenance inventory. *** The FL15 addresses this by utilizing a standardized 400W/500W core thermal module. By combining up to four modules, it scales seamlessly from 400W to 2000W within a single product family. This modular approach provides engineers with versatile photometric options while unifying the site's aesthetic and simplifying long-term maintenance.

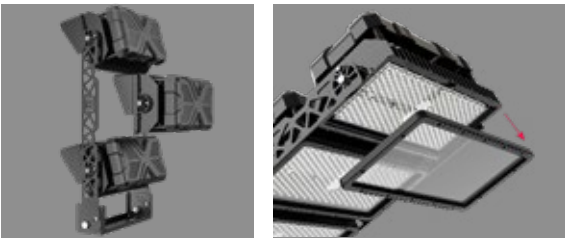
- 150
lm/W
- 400-2000
High-Wattage
- SKD
Shipping Support
- <1%
Flicker
- IP66
Ingress Protection
- IK08/IK10
Mech.impact Protection

Fetures

- Modular Scaling: Combines 400W/500W modules for flexible 400W-2000W output.
- Comprehensive Driver Safeguards: Utilizes constant-current drivers with integrated thermal, surge, and overvoltage protection.
- Dual-Axis Precision Aiming: Features a 5° increment scale for bracket tilt (0–30°) and module rotation (0–180°).
- Tool-Less Maintenance: Enables rapid module replacement via hand-tightened fasteners, reducing on-site labor.
- Glass + PC Option: Optional tempered glass prevents UV-induced yellowing and wear of PC lenses.
- Versatile Optics: Beam angles range from 15° to 120°, plus P45, to suit varied mast heights.
- Spill Control: Optional visor eliminates upward light scatter and light trespass.
- Flexible Mount: Drivers can be bracket- or pole-mounted to minimize mast deadweight.
- Weather-Resistant Build: Combines SPCC steel frames with outdoor electrostatic powder coating for heavy-duty reliability.
- Protocol Ready: Supports 0-10V, DMX, RDM, and DALI 2.0/D4i.



Easy Maintenance



Second Optional Bracket



Specifications

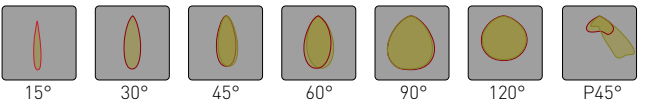
SP

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL15-400	58,000lm	400W	145lm/W	7.2kg	8.8kg	0.89ft²
FL15-500	75,000lm	500W	150lm/W	7.2kg	8.8kg	0.89ft²
FL15-800	116,000lm	800W	145lm/W	16.5kg	18kg	1.87ft²
FL15-1000	150,000lm	1000W	150lm/W	16.5kg	18kg	1.87ft²
FL15-1200	174,000lm	1200W	145lm/W	22.5kg	24kg	2.88ft²
FL15-1500	225,000lm	1500W	150lm/W	22.5kg	24kg	2.88ft²
FL15-1600	232,000lm	1600W	145lm/W	28.5kg	30.5kg	3.90ft²
FL15-2000	300,000lm	2000W	150lm/W	28.5kg	30.5kg	3.90ft²

Beam Angle

Symmetric: 15°, 30°, 45°, 60°, 120°
Asymmetric: P45°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, RDM, DMX512, DALI 2, D4i

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

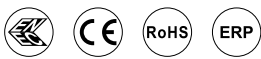
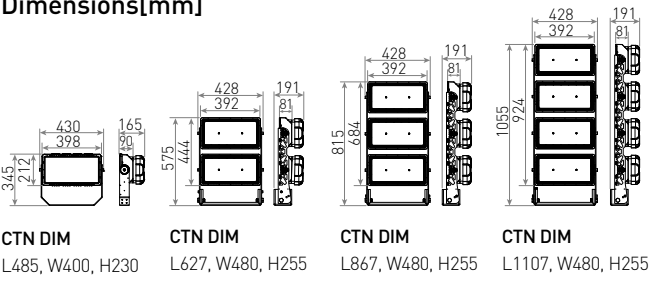
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Black

Accessories



Dimensions[mm]





FL10

High-Density Power Output. Optimized Project Economics

High-Wattage Modular Sports Luminaire Engineered to Minimize Fixture Count and Mast Payload.

*** Illuminating large-scale professional stadiums requires immense lumen output. Relying on conventional sports lights means deploying massive fixture arrays, which exponentially increases hardware costs, installation labor, and necessitates costly mast reinforcements due to excessive windage and deadweight. *** The FL10 series maximizes cost-effectiveness through an ultra-high power density architecture. By delivering up to 1000W per single module and scaling to 2000W in a compact dual-module chassis, it drastically reduces the total number of fixtures required per mast. This structural efficiency minimizes aerodynamic drag and capital expenditure, while optional RGB/RGBW capabilities provide supplementary dynamic lighting for venue entertainment.

180
lm/W

500-2000
Power Wattage

RGBW
Available

<1%
Flicker

IP66
Ingress
Protection

IK08/IK10
Mech.impact
Protection

Fetures

- Extreme Power Density: Up to 1000W per module—massive output in minimal space.
- Cost-Optimized Scaling: 1–2 module setups (up to 2000W) cut fixture count, lowering installation and hardware costs.
- Dynamic RGB/RGBW: Full-color RGB and RGBW for synchro-nized light shows and event lighting.
- Peak Efficacy: Up to 180 lm/W for standard white light—lower energy use.
- Precision Laser Aiming: Works with attachable laser tools for exact alignment and uniform illumination.
- Directional Spill Control: Engineered visor blocks upward light and reduces glare for spectators and residents.
- Dual-Layer Optics: Optional tempered glass over PC lenses prevents UV yellowing and withstands impact (IK10).
- Heavy-Duty Thermal Management: ADC12 die-cast aluminum heat sinks ensure reliable cooling at continuous 2000W.

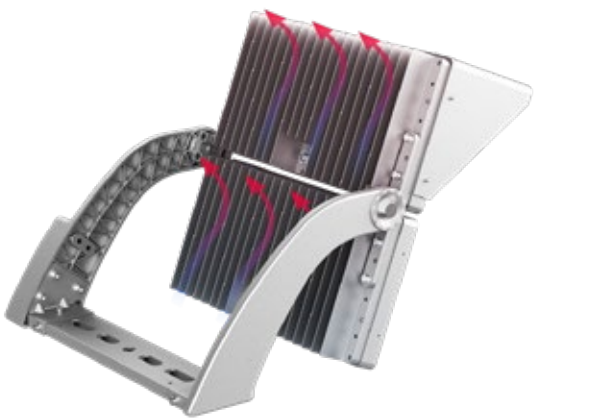


■ 500W / 600W / 800W / 1000W

■ 1000W / 1200W / 1600W / 2000W

Less Fixtures, Lower Costs

The FL10’s core engineering value is its exceptional lumen-per-square-meter output. One module delivers up to 1000W; a dual-module chassis delivers 2000W. Replacing multiple low-wattage fixtures with fewer FL10 units reduces mast windage (EPA), simplifies wiring, and lowers BOM cost—without compromising horizontal illuminance.



Supplementary Dynamic Lighting (RGB/RGBW)



Specifications

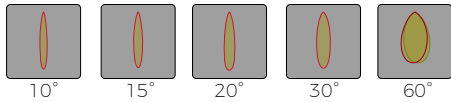


Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL10-500	90,000lm	500W	180lm/W	18.5kg	20kg	1.42ft²
FL10-600	105,000lm	600W	175lm/W	18.5kg	20kg	1.42ft²
FL10-800	132,000lm	800W	165lm/W	18.5kg	20kg	1.42ft²
FL10-1000	150,000lm	1000W	150lm/W	18.5kg	20kg	1.42ft²
FL10-1000	180,000lm	1000W	180lm/W	29kg	31kg	2.94ft²
FL10-1200	210,000lm	1200W	175lm/W	29kg	31kg	2.94ft²
FL10-1600	264,000lm	1600W	165lm/W	29kg	31kg	2.94ft²
FL10-2000	300,000lm	2000W	150lm/W	29kg	31kg	2.94ft²

Beam Angle

Symmetric: 10°, 15°, 20°, 30°, 60°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 200-480VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGB/RGBW

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

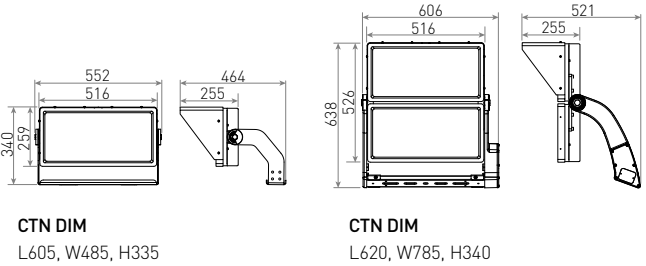
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass (Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Gray

Accessories



Dimensions[mm]





FL08

Modular scalability. Optimized logistics. Increased ROI.

Cost-Effective LED Floodlight with Independent Drivers and SKD Shipping Capabilities.

*** Distributors and contractors face heavy burdens from high international freight costs, import duties, and warehouse space required for large-scale sports fixtures. Furthermore, on the field, a single driver failure in a conventional high-wattage fixture causes a complete blackout, disrupting events and forcing costly emergency maintenance.

*** The FL10 series structurally resolves these supply chain and operational bottlenecks. Designed for SKD (Semi-Knocked Down) shipping, the modules and brackets can be packaged separately to drastically reduce volumetric weight and tariffs. Operationally, each module runs on an independent driver; a single component failure will not compromise the rest of the fixture, maximizing overall ROI and system uptime.

165
lm/W

200-1000
Power Wattage

RGBW
Available

SKD
Shipping Support

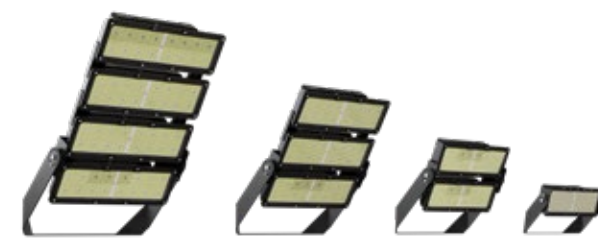
<1%
Flicker

IP66
Ingress
Protection

IK08/IK10
Mech. impact
Protection

Features

- Fail-Safe Operation: Each module has its own driver—failure of one won't affect overall output.
- SKD Logistics: Modules and brackets ship separately, cutting packaging volume, sea freight, and import duties.
- Scalable Power: 1-4 modules combine for 200W-1000W output.
- RGBW Ready: Standard white light + optional RGBW for dynamic event lighting and venue aesthetics.
- Dual-Layer Optics: Tempered glass over PC lenses prevents UV yellowing and outdoor abrasion.
- Precision Targeting: Symmetric beam angles (10°-90°) and P50 optics adapt to varied court sizes and mounting heights.
- Rugged Build: ADC12 die-cast aluminum heat sinks + outdoor powder coating achieve IP66 and IK08 ratings.



■ 800W / 1000W ■ 600W / 750W ■ 400W / 500W ■ 200W / 250W

Scalable Modular Architecture:
Reduces SKU count → lowers inventory pressure



Shippable as Separate Components **SP**

- Higher container loading efficiency
- Better warehouse turnover
- Unified Distribution Network / Inter-Regional Deployment Simplified

Independent Module Operation

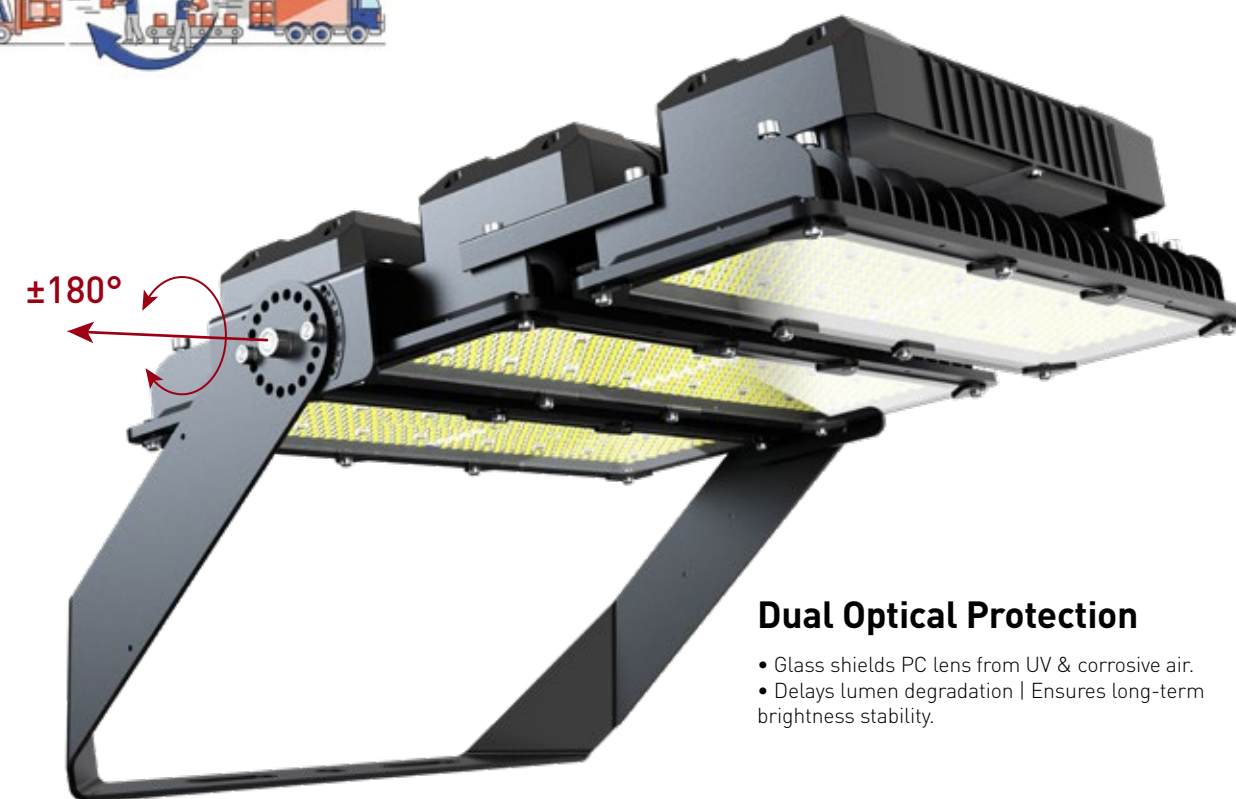
- Faults isolated to a single module.
- One-to-One Replacement → Zero Downtime Lighting, Uninterrupted Games, Continuous Usage.

Supplementary Explanation (Recommended Add-on):
When one module fails, the remaining modules continue operating normally, ensuring uninterrupted lighting for the field and avoiding full system shutdown.



Independent Driver for Each Module

- Ensures electrical safety and long-term reliability.
- Supports replacement without dismantling entire fixture.

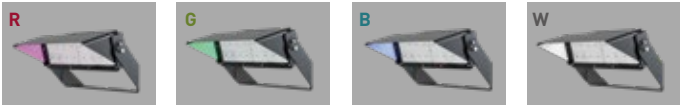


Dual Optical Protection

- Glass shields PC lens from UV & corrosive air.
- Delays lumen degradation | Ensures long-term brightness stability.

RGB / RGBW Control Available

The FL08 supports white light and optional RGBW configurations, making it suitable not only for functional sports lighting but also for atmosphere lighting, event lighting, and multi-purpose venue lighting.



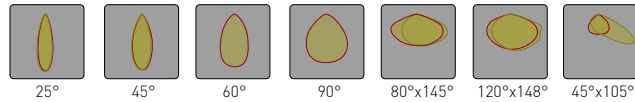
Specifications (All Withe)

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
FL08-200	31,000lm	200W	155lm/W	5.0kg	6.5kg	0.71ft²
FL08-250	37,500lm	250W	150lm/W	5.0kg	6.5kg	0.71ft²
FL08-400	62,000lm	400W	155lm/W	8.0kg	10kg	1.53ft²
FL08-500	75,000lm	500W	150lm/W	8.0kg	10kg	1.53ft²
FL08-600	93,000lm	600W	155lm/W	12.5kg	14kg	2.34ft²
FL08-750	112,500lm	750W	150lm/W	12.5kg	14kg	2.34ft²
FL08-800	124,000lm	800W	155lm/W	16.5kg	18.5kg	3.15ft²
FL08-1000	150,000lm	1000W	150lm/W	16.5kg	18.5kg	3.15ft²

Beam Angle

Symmetric: 25°, 45°, 60°, 90°
Asymmetric: 80°x145°, 120°x148°, 45°x105°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 200-480VAC / 198-440VAC / 180-528VAC
Power Factor: ≥0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2, RGB/RGBW

Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Steel metal U-bracket, SPCC, Powder-Coated
Luminaire Colour: Black

Accessories



Specifications (RGBW)

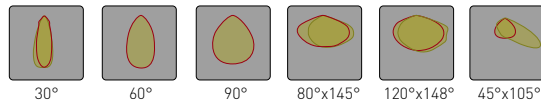


Order Matrix

Model	Power	Net Weight	Gross Weight	EPA
FL08RGBW-250	250W	5.0kg	6.5kg	0.71ft²
FL08RGBW-500	500W	8.0kg	10kg	1.53ft²
FL08RGBW-750	750W	12.5kg	14kg	2.34ft²
FL08RGBW-1000	1000W	16.5kg	18.5kg	3.15ft²

Beam Angle

Symmetric: 30°, 60°, 90°
Asymmetric: 80°x145°, 120°x148°, 45°x105°



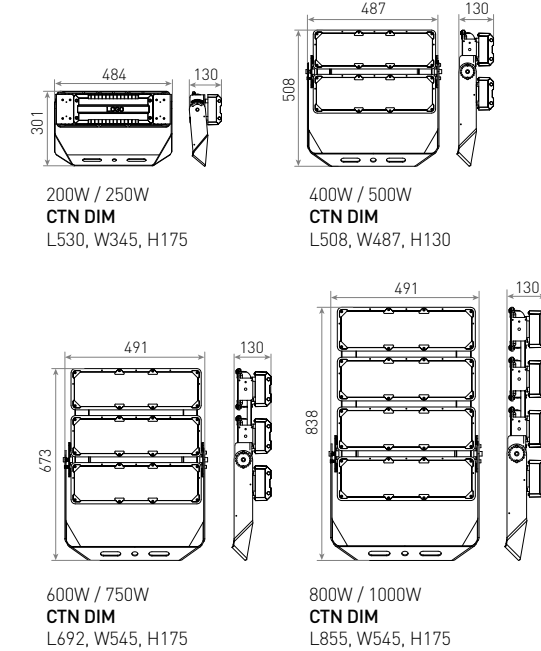
Operating and Electrical

Input Voltage: 100-277VAC / 220-240VAC
Power Factor: ≥0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10kV, 20kV (External SPD) Optional
Electrical Protection: Class I
Control: DMX512, RGB/RGBW

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Dimensions[mm]





FL01 Multi-Directional Aiming. Tool-Free Maintenance.

Modular LED Sports Light Featuring Independent 180° Module Rotation and SKD Assembly.

*** Illuminating multi-zone sports facilities often requires mounting numerous individual fixtures on a single mast, each aimed at different angles. This clutters the pole, increases structural wind load, and complicates wiring. Furthermore, assembling heavy modular fixtures on-site traditionally demands specialized tools and significant labor hours.

*** The FL01 series introduces a highly flexible modular platform where each light engine can rotate independently up to 180°. This architecture allows a single multi-module fixture to illuminate different targeted zones simultaneously. Combined with a tool-free assembly mechanism and SKD shipping support, the FL01 drastically reduces on-site installation time and logistics overhead while delivering a stable 150-170 lm/W efficacy.

- 170

lm/W
- 250-1200

Power Wattage
- SKD

Shipping Support
- <1%

Flicker
- IP66

Ingress Protection
- IK08/IK10

Mech.impact Protection

Fetures

- 180° Independent Rotation: Each module rotates up to 180°, enabling multi-directional targeting from a single mast.
- Tool-Free Assembly: Quick-release design allows fast on-site installation and replacement—no tools required.
- SKD Logistics Optimization: Modules and brackets ship separately, reducing volumetric weight and import duties.
- Independent Fail-Safe: Dedicated circuitry per module ensures one failure won't blackout the entire fixture.
- High-Efficacy Scaling: Scales from 250W to 1200W (1-4 modules) with consistent 150-170 lm/W system efficacy.
- Comprehensive Optics: Beam angles from 15° to 120°, plus P45, support diverse photometric layouts.
- Smart Protocol Ready: Fully compatible with 0-10V, DALI 2.0, and DMX512 for seamless integration with central controls.



Multi-Zone Targeting (180° Rotation)

Unlike standard flat-panel floodlights that emit all light in one direction, the FL01 gives designers multi-directional control. Each module adjusts independently up to 180°. A single 4-module FL01 can simultaneously light a basketball court (left), running track (center), and seating area (right)—cutting the number of fixtures needed on a central mast.



Tool-Free SKD Economics

The FL01 features a tool-free locking mechanism. It ships in Semi-Knocked Down (SKD) format—brackets and LED modules shipped separately—to cut volumetric shipping costs. On site, contractors snap modules onto brackets by hand: fast assembly, lower labor costs, and easier maintenance.

Specifications

Order Matrix

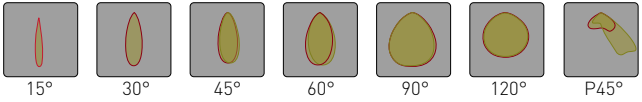
Model	Lumen	Power	Efficacy (@Ra70/5000K)	Net Weight	Gross Weight	EPA (@30°/45°/60°)
FL01-250	38,750lm	250W	155lm/W	6.2kg	7.8kg	1.12/1.24/1.35 ft²
	41,250lm		165lm/W	6.2kg	7.8kg	1.12/1.24/1.35 ft²
FL01-300	45,000lm	300W	150lm/W	6.2kg	7.8kg	1.12/1.24/1.35 ft²
	48,000lm		160lm/W	6.2kg	7.8kg	1.12/1.24/1.35 ft²
FL01-500	77,500lm	500W	155lm/W	20kg	22kg	2.06/2.33/2.54 ft²
	82,500lm		165lm/W	20kg	22kg	2.06/2.33/2.54 ft²
FL01-600	90,000lm	600W	150lm/W	20kg	22kg	2.06/2.33/2.54 ft²
	96,000lm		160lm/W	20kg	22kg	2.06/2.33/2.54 ft²
FL01-750	116,250lm	750W	155lm/W	27kg	30kg	2.65/3.17/3.58 ft²
	123,750lm		165lm/W	27kg	30kg	2.65/3.17/3.58 ft²
FL01-900	135,000lm	900W	150lm/W	27kg	30kg	2.65/3.17/3.58 ft²
	144,000lm		160lm/W	27kg	30kg	2.65/3.17/3.58 ft²
FL01-1000	155,000lm	1000W	155lm/W	33kg	35.7kg	3.24/3.99/4.58 ft²
	165,000lm		165lm/W	33kg	35.7kg	3.24/3.99/4.58 ft²
FL01-1200	180,000lm	1200W	150lm/W	33kg	35.7kg	3.24/3.99/4.58 ft²
	192,000lm		160lm/W	33kg	35.7kg	3.24/3.99/4.58 ft²

Note: 155lm/W and 150lm/W (@EMC3030); 165lm/W and 160lm/W (@EMC5050)

Beam Angle

Symmetric: 15°, 30°, 45°, 60°, 90°, 120°

Asymmetric: P45°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K

CRI: >70, 80, 90 (Optional)

SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 277-480VAC

Power Factor: >0.95

Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load

Surge Protection: 10kV, 20kV (External SPD) Optional

Electrical Protection: Class I

Control: 0-10V Dimming, RDM, DMX512, DALI 2, D4i

Lifespan and Warranty

Operating Temperature: -40°C to +50°C

Life Time of LED @Ta+25°C: 50,000Hours

Warranty: 5 years

Mechanical and Housing

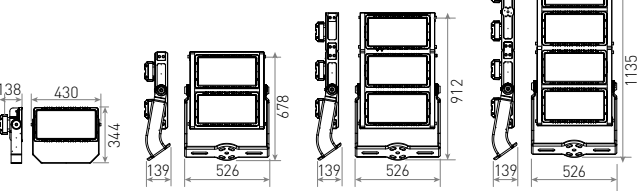
Optical Cover Type: Polycarbonate lens + Tempered glass (Optional)

Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated

Steel metal U-bracket, SPCC, Powder-Coated

Luminaire Colour: Black

Dimensions[mm]



250W / 300W CTN DIM L470, W387, H184	500W / 600W CTN DIM L720, W580, H192	750W / 900W CTN DIM L965, W580, H192	1000W / 1200W CTN DIM L1200, W580, H192
--	--	--	---



HIGH-MAST & LARGE-AREA LIGHTING

For airports, ports, container yards, logistics hubs, industrial sites, and other large outdoor areas.

ZC High-Mast & Large-Area Lighting is built for airports, ports, container yards, logistics hubs, large parking areas, industrial sites, and other wide-area applications requiring high-output and long-distance illumination. The products are available with multiple beam distributions, corrosion-resistant finishes, robust structural design, and options for precise aiming and control. They are suitable for projects where mounting height, wind load, maintenance access, and lighting uniformity are key considerations.

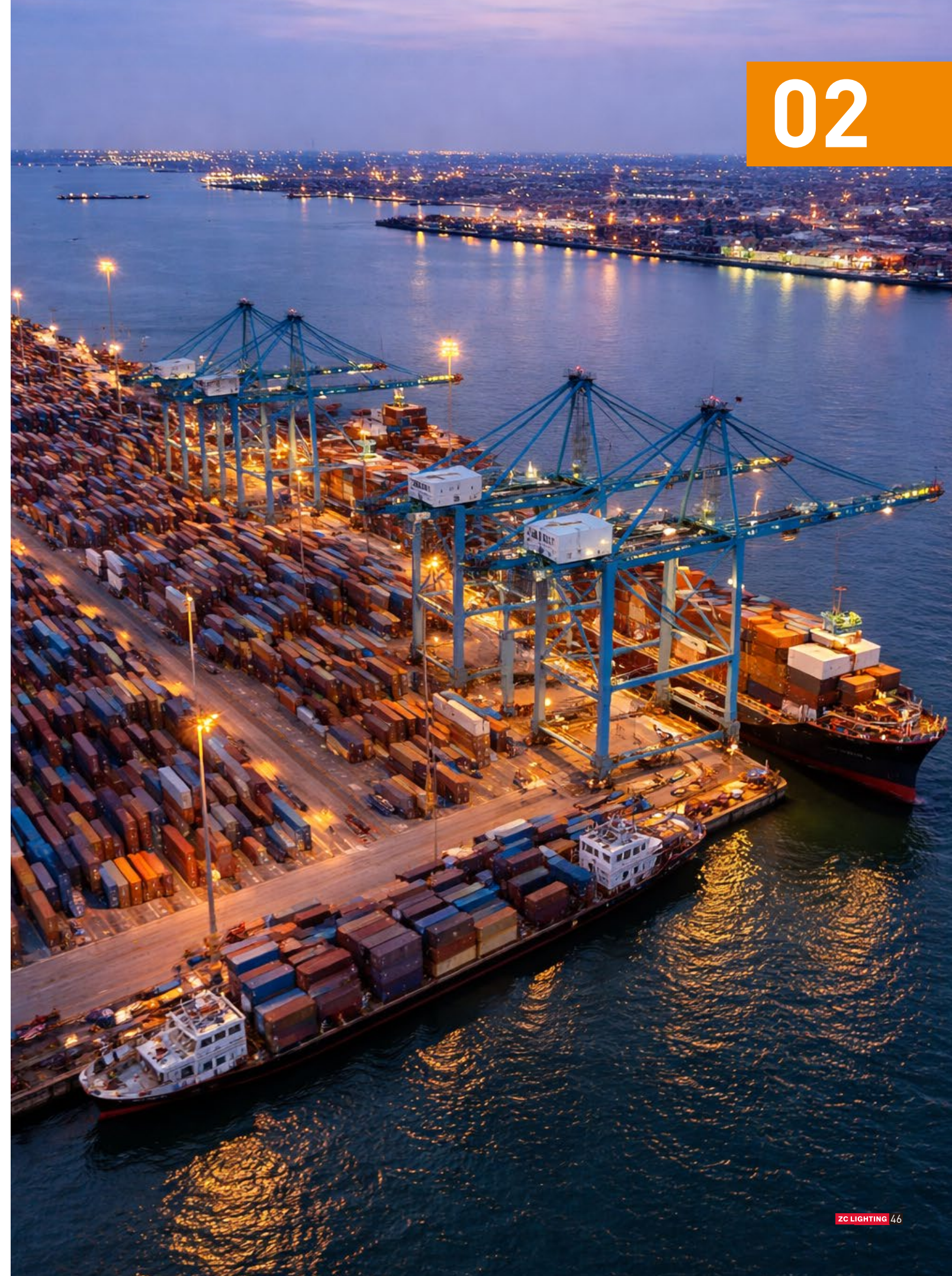


Product Range

High-Mast Lights / High-Output Floodlights / Port & Airport Lighting / Large-Area Site Lighting

Key Requirements

High Output | Long-Distance Beam | Wind Load | Corrosion Resistance | Lighting Uniformity





HM01R

Seamless 1:1 retrofit of the HID.

High-Mast LED Luminaire Engineered for 20m+ Poles in Airports, Seaports, and Highways.

**** Retrofitting traditional HID fixtures on 20-meter high masts involves immense logistical and structural challenges. The sheer weight of legacy fixtures increases hoisting risks, while harsh coastal or industrial environments rapidly degrade optical components and driver reliability. Furthermore, complicated maintenance at extreme heights drives up operational costs.**

**** The HM01R is engineered as a direct drop-in replacement that solves these heavy infrastructure pain points. Weighing up to 60% less than conventional fixtures, it drastically minimizes wind load and installation hazards. Built with 3G/5G vibration resistance and tool-accessible driver compartments, the HM01R guarantees safe, long-term operation and reduces high-altitude maintenance time by 70%.**

- 170

lm/W
- 250-1200

Power Wattage
- 1:1

Repalcement
- 3G/5G

Vibration
- <1%

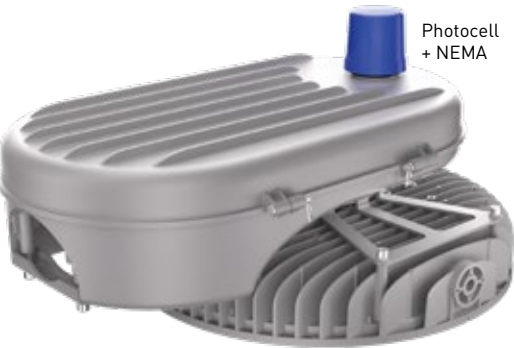
Flicker
- IP66

Ingress Protection
- IK08/IK10

Mech.impact Protection

Fetures

- Safety-Optimized Weight: Up to 60% lighter than conventional fixtures—reduces wind load and hoisting risks.
- Vibration Resilience: Standard 3G rating (highways); optional 5G upgrade for airports/seaports—prevents dislodgement.
- Supply Chain Efficiency: Shares heat sink and driver housing with SP02 and HM01S—cuts spare parts inventory by 40%.
- Fast, Tool-Free Servicing: Hinged, captive-screw driver compartment enables 70% faster pole-top maintenance.
- Harsh-Environment Protection: Available with AkzoNobel anti-corrosion coating or electrophoresis—ideal for coastal/industrial sites.
- Mod-Free Upgrades: Field-upgradable glass kits add corrosion protection instantly—no structural changes or new SKUs.
- Glare-Free Uniform Light: Monolithic lens delivers UGR<21 illumination via symmetric beams [12°/25°/40°/60°].
- Seamless 1:1 Retrofit: Direct drop-in replacement for HID on standard 60/80/100 cm poles—zero adaptation needed.



Maintenance-Optimized & Seamless Retrofit

Performing maintenance at 20+ meters is hazardous and costly. The HM01R addresses this with a tool-accessible driver compartment; the hinged cover opens quickly with just two captive screws, accelerating high-altitude servicing by 70%. For retrofits, the fixture integrates directly with 60/80/100cm standard pole interfaces, functioning as a true 1:1 HID replacement that requires zero structural modification to the legacy mast.



Mod-Free Corrosion Kits: Cut SKUs

Field-upgradable glass kit: No structural modifications needed for corrosion protection retrofits, while reducing costs and SKU complexity from added components

Specifications

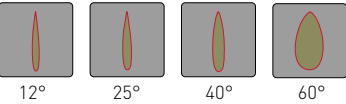


Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight	EPA
HM01R-500	85,000lm	500W	170lm/W	19.0kg	20.5kg	1.49ft²
HM01R-600	96,000lm	600W	160lm/W	20.5kg	22.5kg	1.49ft²
HM01R-750	116,250lm	750W	155lm/W	22.0kg	24.0kg	1.65ft²
HM01R-800	120,000lm	800W	150lm/W	22.0kg	24.0kg	1.65ft²
HM01R-1000	175,000lm	1000W	175lm/W	28.0kg	30.5kg	1.80ft²
HM01R-1200	186,000lm	1200W	155lm/W	30.5kg	33.0kg	1.80ft²

Beam Angle

Symmetric: 12°, 25°, 40°, 60°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 90-305VAC / 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10Kv, 20Kv (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DALI 2

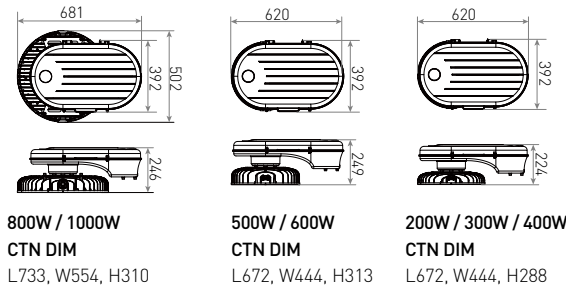
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass (Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Die-cast driver box, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]





HM01S

360° Omnidirectional Aiming. Seamless HPS Retrofit

LED High-Mast Luminaire Engineered for 20m+ Poles and Irregular Layouts.

** Illuminating complex outdoor infrastructures, such as highway curves, airport aprons, and multi-directional seaports, often forces contractors to erect redundant high-masts to eliminate dark spots. Meanwhile, replacing heavy traditional HPS fixtures at 20-meter heights incurs massive hoisting costs and maintenance hazards.

** The HM01S solves both architectural and operational bottlenecks. Featuring a horizontal 360° continuous rotation system, it eliminates pole redundancy in irregular layouts, effectively cutting pole construction costs by 30%. Designed as a 20kg ultra-light drop-in replacement (60% lighter than conventional units), it minimizes wind load and seamlessly integrates with standard pole interfaces, backed by 3G/5G vibration resistance for extreme environments.

155
lm/W

800-1000
Power Wattage

1:1
Repalcement

3G/5G
Vibration

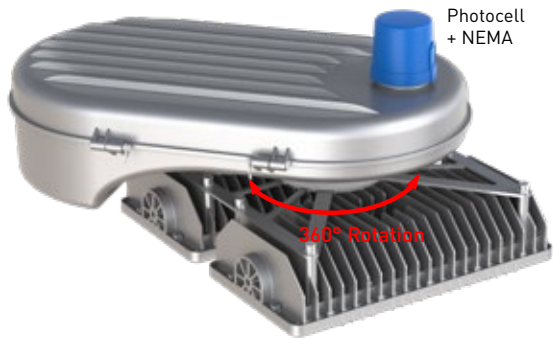
<1%
Flicker

IP66
Ingress Protection

IK08/IK10
Mech.impact Protection

Fetures

- 360° Adjustable Lighting: Continuous horizontal rotation eliminates redundant poles in irregular highway/port layouts—cuts pole costs by 30%.
- Cost-Saving Supply Chain: Shares heat sink and driver housing with FL15 and HM01R—reduces distributor spare part inventory by 40%.
- Fast, Tool-Free Maintenance: Hinged, captive-screw driver compartment cuts high-altitude servicing time by 70%.
- Vibration Resilience: Standard 3G (highways/stadiums); optional 5G (airports/seaports)—prevents dislodgement.
- Seamless Retrofit: Direct drop-in replacement for Ø60/80/100 mm poles—zero structural adaptation needed.
- Dual-Protection Optics: 94% transmissive PC lens + tempered glass armor blocks >99% UV—prevents optical decay.
- Extreme Corrosion Protection: Optional electrophoresis + powder coating or AkzoNobel treatment—for coastal/industrial zones.



360° Rotation & Scenario-Optimized Optics

The HM01S differentiates itself with a highly functional 360° continuous rotation system. Instead of erecting multiple high-masts to light complex intersections or curved infrastructures, operators can independently pivot the fixture heads to precisely target blind spots, slashing pole costs by 30%. When combined with scenario-optimized optics—such as 15° for runway thresholds, 120° for wide grandstand coverage, or P45 for ramp glare control—it provides unmatched photometric accuracy.



Specifications

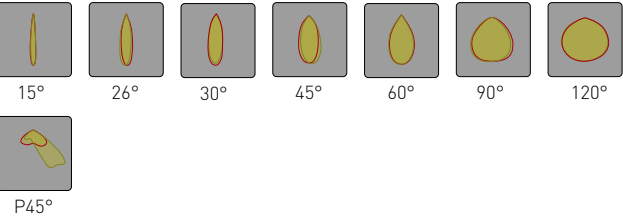


Order Matrix

Model	Lumen	Power	Efficacy [@Ra70,5000K]	Net Weight	Gross Weight	EPA
HM01S-800	124,000lm	800W	155lm/W	17.5kg	20.0kg	1.58ft²
HM01S-1000	150,000lm	1000W	150lm/W	17.5kg	20.2kg	1.58ft²

Beam Angle

Symmetric: 15°, 26°, 30°, 45°, 60°, 90°, 120°
Asymmetric: P45°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 & TLCI90 (optional)
SDCM: 6

Operating and Electrical

Input Voltage: 90-305VAC / 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 10Kv, 20Kv (External SPD) Optional
Electrical Protection: Class I
Control: 0-10V Dimming, DALI 2

Lifespan and Warranty

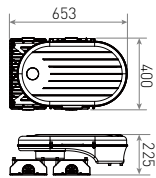
Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass (Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Die-cast driver box, ADC12, Powder-Coated

Luminaire Colour: Gray

Dimensions[mm]



800W / 1000W
CTN DIM
L705, W452, H289



INDUSTRIAL & COMMERCIAL LIGHTING

For factories, warehouses, logistics centers, workshops, supermarkets, and commercial high-ceiling spaces.

ZC Industrial & Commercial Lighting is developed for factories, warehouses, workshops, logistics centers, supermarkets, retail spaces, and other high-ceiling or open-area applications. The range includes UFO high bays, linear high bays, high-temperature high bays, high-power industrial lights, and linear panel lights for both industrial and commercial environments. Depending on project requirements, products can offer selectable wattage, CCT, beam angle, smart control compatibility, and special designs for demanding environments.



Product Range

UFO High Bays / Linear High Bays / High-Temperature High Bays / High-Power High Bays / Linear Panel Lights

Key Requirements

High Efficiency | Reliable Operation | Easy Installation | Thermal Management | Smart Control



HB21

Maximum Adaptability. Minimal Inventory.

Ultra-Slim 3-in-1 Tunable LED High Bay Engineered for SKU Optimization and Hygienic Environments.

** Industrial lighting distributors frequently suffer from high inventory pressure, forced to stock dozens of high bay variations to accommodate different ceiling heights, brightness demands, and beam angle requirements. Concurrently, contractors struggle with heavy fixtures during high-altitude installations, and facility managers in food processing require hygienic fixtures that do not accumulate dust.

** The HB21 completely re-engineers the high bay form factor. At just 17mm thick and weighing 1.75kg, it slashes transport costs and installation fatigue. Its integrated 3-in-1 tunable system (Wattage, CCT, and Optics) allows one fixture to replace multiple SKUs, cutting inventory by 60%. Furthermore, its smooth, finless die-cast chassis prevents dust and moisture buildup, making it the ultimate cross-functional solution from warehouses to clean food processing plants.

200
lm/W

60-200
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

3-in-1
Optics
Adjustable

<19
UGR

IP65
Ingress
Protection

IK10
Mech.impact
Protection

Fetures

- 3-in-1 Tunable Platform: Adjustable wattage (60%/80%/100%), CCT (3000K–6500K), and beam angles (60°/80°/100°)—reduces SKU count by up to 70%.
- Ultra-Slim Design: Just 17 mm thick, 1.75 kg—lowers shipping volume and speeds up high-altitude installation.
- Cleanroom-Ready Thermal Management: Smooth die-cast heat sink prevents dust/moisture buildup—maintains thermal efficiency in food plants and farms.
- Peak Efficacy: Up to 200 lm/W—cuts energy use by 50% vs. legacy 100 lm/W high bays for fast ROI.
- Low-Glare Comfort: 94% transmissive lens ensures UGR < 19—reduces visual fatigue in precision manufacturing.
- Harsh Environment Rated: IP65 sealed + IK10 impact resistant—built for dusty, humid, or corrosive industrial sites.
- Smart Dimming Ready: Universally compatible with 0–10V, 1–10V, and PWM—integrates seamlessly into facility controls.
- Safety-First Mounting: Includes safety cable anchor points and hook/chain options—ensures secure overhead deployment.



Minimalist SKUs: One Light, Multiple Solutions

Wholesalers and distributors juggle large inventories to meet diverse project specs—HB21 eliminates that complexity. With a built-in DIP switch and integrated multi-angle lens, one HB21 unit configures on-site for 3 wattages (120W/150W/200W), adjustable CCT, and 3 beam spreads (60°/80°/100°). This 3-in-1 flexibility cuts standing inventory by up to 60%, boosting distributor cash flow and ROI.

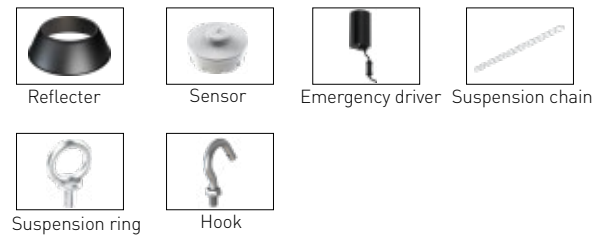


Emergency solution



Gray Colour

Accessories



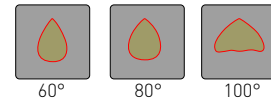
Specifications

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (5000K)	Net Weight	Gross Weight
HB21-100	20,000lm	100W	200lm/W @Ra70	2.25kg	2.75kg
	19,000lm		190lm/W @Ra80		
	17,000lm		170lm/W @Ra90		
	16,000lm	80W	200lm/W @Ra70	2.25kg	2.75kg
	15,200lm		190lm/W @Ra80		
	13,600lm	60W	170lm/W @Ra90	2.25kg	2.75kg
	12,000lm		200lm/W @Ra70		
	11,400lm		190lm/W @Ra80		
	10,200lm	150W	170lm/W @Ra90	2.25kg	2.75kg
	30,000lm		200lm/W @Ra70		
HB21-150	28,500lm	120W	190lm/W @Ra80	2.25kg	2.75kg
	25,500lm		170lm/W @Ra90		
	24,000lm		200lm/W @Ra70		
	22,800lm	90W	190lm/W @Ra80	2.25kg	2.75kg
	20,400lm		170lm/W @Ra90		
	18,000lm	200W	200lm/W @Ra70	2.25kg	2.75kg
	17,100lm		190lm/W @Ra80		
	15,300lm		170lm/W @Ra90		
	40,000lm	160W	200lm/W @Ra70	2.25kg	2.75kg
	38,000lm		190lm/W @Ra80		
HB21-200	34,000lm	120W	170lm/W @Ra90	2.25kg	2.75kg
	32,000lm		200lm/W @Ra70		
	30,400lm		190lm/W @Ra80		
	27,200lm	90W	170lm/W @Ra90	2.25kg	2.75kg
	24,000lm		200lm/W @Ra70		
	22,800lm	120W	190lm/W @Ra80	2.25kg	2.75kg
	20,400lm		170lm/W @Ra90		

Beam Angle

Symmetric: 60°, 80°, 100°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC
Power Factor: >0.95
Total Harmonic Distortion: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 6kV, 10kV SPD Optional
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI 2, Microwave Sensor

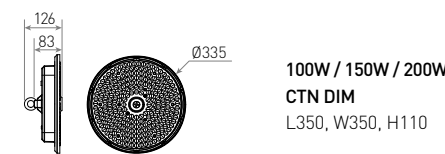
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black, Gray

Dimensions[mm]



HB20

Engineered for the Extremes. Reliable at 70°C.

High-Temperature LED High Bay for Smelting, Steelworks, and Paper Mills.

** Standard industrial high bays fail rapidly in heavy manufacturing facilities. In environments like steelworks, glass plants, and paper mills, ambient temperatures can sustain at 70°C, causing conventional LED drivers to overheat and optical components to degrade, leading to dangerous blackouts and costly production halts.

** The HB20 is built for factories that never cool down. It utilizes an industrial-grade, high-temperature driver engineered for continuous full-load operation in severe heat. Sharing the robust die-cast ADC12 thermal with our SP02 stadium light, the HB20 ensures unwavering thermal stability, safety, and up to 175 lm/W efficacy in environments where failure is not an option.

175
lm/W

180-400
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

70°C
High-
Temperature

IP66
Ingress
Protection

IK08/K10
Mech.impact
Protection



Fetures

- 70°C Rated: Runs continuously at 70°C ambient—enabled by high-temp drivers and components.
- 3-in-1 Tuning: Tool-free power (60%/80%/100%) and CCT (CW/NW/WW) adjustment via optional external controller.
- 175 lm/W Efficacy: Up to 70,000 lumens at 400W—maximizing energy ROI.
- 360° Mounting: U-bracket enables full rotation for precise aiming in complex industrial ceilings.
- 6 kV Surge Protection: Built-in protection against voltage spikes in heavy manufacturing.
- Precision Optics: 12°/25°/40°/60° beam angles for deep-penetration lighting in smelting, mining, and other high-temp zones.
- IP66 Rated: Dust-tight and resistant to high-pressure water jets—ideal for paper mills and humid, dirty environments.



Engineered for High-Temperature Environments

The core limitation of standard high bays in smelting, steel, or glass plants is driver failure and LED junction degradation under extreme heat. The HB20 completely overcomes this through a dual-defense thermal architecture.

Industrial-Grade High-Temp Driver: Equipped with a specialized power supply rigorously tested for continuous, full-load operation at 70°C ambient temperatures. It eliminates thermal throttling and prevents the sudden blackouts common with standard commercial drivers in heavy manufacturing.

Honeycomb Convection Heat Sink: Utilizing an oversized ADC12 die-cast aluminum platform, the heat sink features a deep-fin honeycomb structure. This design maximizes vertical air permeability, utilizing the chimney effect to rapidly expel internal heat and maintain optimal junction temperatures.

This combination of heat-resistant electronics and aggressive thermal mass ensures unwavering stability, delivering up to 175 lm/W efficacy even when the factory never cools down.

Tool-Free 3-in-1 Tunability

HB20 simplifies heavy industrial retrofit procurement and deployment with an optional external smart controller. Contractors adjust wattage (60%/80%/100%) and CCT (WW/NW/CW) on-site—no fixture opening required. Tunable output cuts distributor SKU count while guaranteeing precise photometric compliance across plant zones.

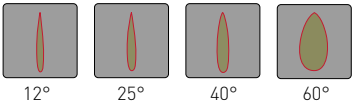
Specifications

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB20-300	52,500lm	300W(100%)	175lm/W	9.7kg	10.7kg
	42,000lm	240W(80%)			
	31,500lm	180W(60%)			
HB20-400	68,000lm	400W(100%)	170lm/W	10kg	11kg
	54,400lm	320W(80%)			
	40,800lm	240W(60%)			

Beam Angle

Symmetric: 12°, 25°, 40°, 60°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 90-305VAC, 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrtion: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2

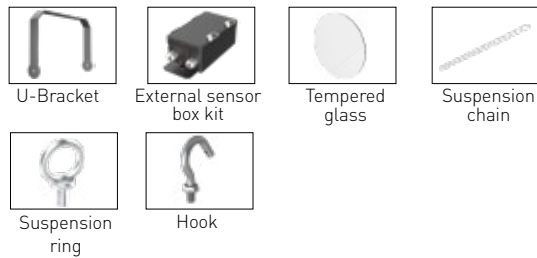
Lifespan and Warranty

Operating Temperature: -40°C to +70°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

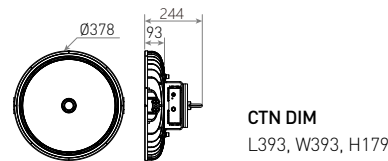
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Accessories



Dimensions[mm]





HB19

High-Power Output. Simplified Deployment.

400W-600W LED High Bay Engineered for 15-25m Massive Industrial Spaces.

** Illuminating massive infrastructures—such as aircraft hangars, shipyards, and heavy-duty logistics centers—with standard high bays forces contractors to install dense grids of fixtures. This significantly inflates installation labor, wiring complexity, and future maintenance costs at extreme heights.
** The HB19 series is engineered as a high-power consolidation solution. Delivering up to 96,000 lumens, a single 600W HB19 fixture efficiently covers 15-25m of high-bay space, directly replacing three to four conventional low-wattage lamps. Combined with a dual built-in DIP switch for on-site micro-current tuning, it slashes both installation overhead for contractors and standing inventory for distributors.

- 175
lm/W
- 240-600
High-Power
- 3-in-1
Wattage
Adjustable
- 3-in-1
CCT
Adjustable
- IP65/IP66
Ingress
Protection
- IK08/K10
Mech.impact
Protection

Fetures

- Extreme Lumen Output: Up to 96,000 lm from 400 W/500 W/600 W options.
- 1-to-4 Replacement: One fixture covers 15–25 m high-bay spaces—replacing 3–4 low-wattage lamps to cut installation and maintenance costs.
- Dual Built-in DIP Switches: On-site 3-step power [60%/80%/100%] and CCT [WW/NW/CW] tuning—no tools needed.
- Auto-calculating CCT: Set min/max CCT; controller delivers the exact midpoint.
- Dual Optical Options: Choose a 94% transmittance PC lens or IK08-rated PC lens + tempered glass.
- Precision Beam Control: 12°/25°/40°/60° beam options for effective light projection from extreme heights.
- Versatile Mounting: Hook-chain, ring-chain, or 360° rotatable U-bracket—optimized for shipyard and hangar trusses.



Installation idea: Less is more

In large-scale venues like exhibition halls, shipyards, and aircraft factories, the true cost of lighting is not just the fixture—it is the high-altitude labor and cabling infrastructure. The HB19 series eliminates dark zones and redundant wiring by delivering up to 175 lm/W efficacy and 96,000 lumens per point. By substituting 3 to 4 conventional 150W fixtures with a single HB19, contractors drastically reduce the number of required luminaires, mounting points, and potential failure nodes, turning structural efficiency into pure profit.



Specifications

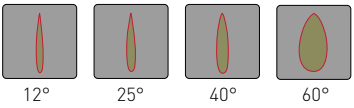
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB19-400	70,000lm	400W(100%)	175lm/W	6.5kg	7.5kg
	56,000lm	320W(80%)			
	42,800lm	240W(60%)			
	28,500lm	160W(40%)			
HB19-500	85,000lm	500W(100%)	170lm/W	6.5kg	7.5kg
	68,000lm	400W(80%)			
	51,000lm	300W(60%)			
	34,000lm	200W(40%)			
HB19-600	96,000lm	600W(100%)	160lm/W	10kg	11kg
	76,800lm	480W(80%)			
	57,600lm	360W(60%)			
	38,400lm	240W(40%)			

Beam Angle

Symmetric: 12°, 25°, 40°, 60°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 90-305VAC, 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15% @480Vac 60Hz, 25°C, Full load
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX512, DALI 2

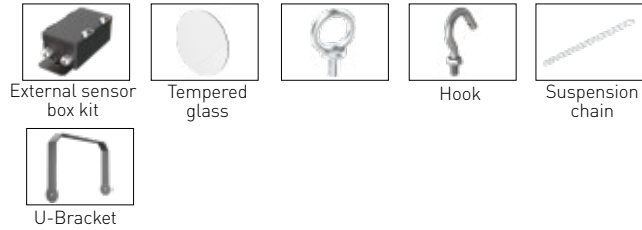
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

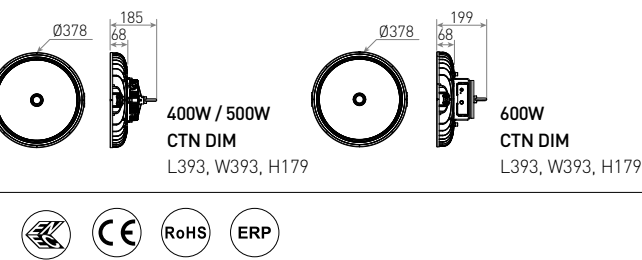
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass(Optional)
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Accessories



Dimensions[mm]





HB17

Precision Mechanical Optics. Maximum SKU Consolidation.

Smart Adjustable High Bay Featuring $\pm 0.5^\circ$ Rotary Lens Technology for Demanding Facilities.

** Precision manufacturing facilities and medical laboratories demand strict light distribution with zero room for beam drift, a common flaw in electronic tuning systems.

** The HB17 eliminates this through a unique mechanical rotary lens system. By simply loosening the screws and horizontally rotating the triple-lens module 120° , contractors can accurately lock in 60° , 90° , or 120° beam angles with $<\pm 0.5^\circ$ deviation. Combined with 3-in-1 Power and CCT tuning via DIP switch, the HB17 optimizes inventory management while meeting the most complex photometric requirements.

200
lm/W

60-240
Power Wattage

3-in-1
Beam Angle
Adjustable

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

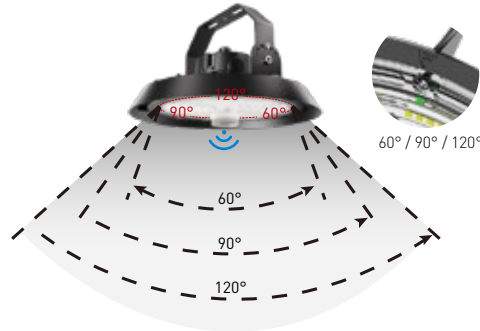
K10
Mech.impact
Protection

Fetures

- Mechanical Beam Tuning: Tool-assisted 120° horizontal module rotation physically changes beam distributions without replacing lenses.
- Zero-Drift Rotary Lens: Precision mechanical indexing guarantees a tolerance of $<\pm 0.5^\circ$, eliminating beam drift in critical applications.
- Inventory Optimization: A single SKU covers multiple beam angles, selectable power levels (60%, 80%, or 100%), and linear CCT tuning—drastically reducing supply chain risks.
- Ultra-High Efficacy: Delivers an exceptional luminous efficacy range of 140–200 lm/W, scalable up to a 240 W high-output configuration.
- Zhaga Smart Ready: Standard 3-pin base compliant with Zhaga Book 18 supports plug-and-play PIR, microwave, and Bluetooth beacon sensors.

Mechanical Beam Angle Tuning

Adjusting the beam spread requires no lens replacement. By simply loosening the securing screws and rotating the triple-lens module 120° horizontally, installers can seamlessly cycle through 60° , 90° , and 120° preset beam distributions. This mechanical indexing guarantees a strict $\pm 0.5^\circ$ optical tolerance, securing precision light distribution without the beam drift common in electronic adjustment systems.



3-in-1 Power & CCT Configuration via DIP Switch

Electrical parameters can be instantly configured on-site via the integrated DIP switch. Installers can execute a 3-step power reduction (100% / 80% / 60% of base wattage) to manage energy consumption. Simultaneously, the switch allows linear CCT tuning across Warm, Natural, and Cool White presets; the fixture's smart circuitry automatically calculates and outputs the exact midpoint based on the user-preset minimum and maximum CCT values.



Accessories



Specifications

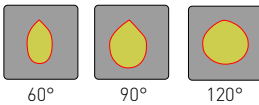
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB17-100	20,000lm	100W(100%)	200lm/W	1.7kg	2.15kg
	14,000lm	80W(80%)	140lm/W		
	16,000lm		200lm/W		
	11,200lm		140lm/W		
	12,000lm	60W(60%)	200lm/W		
HB17-150	8,400lm		140lm/W	1.85kg	2.35kg
	30,000lm	150W(100%)	200lm/W		
	21,800lm	120W(80%)	140lm/W		
	24,000lm		200lm/W		
	16,800lm		140lm/W		
HB17-200	18,000lm	90W(60%)	200lm/W	2.35kg	2.85kg
	12,600lm		140lm/W		
	40,000lm	200W(100%)	200lm/W		
	28,000lm	160W(80%)	140lm/W		
	32,000lm		200lm/W		
HB17-240	22,400lm	120W(60%)	140lm/W	2.65kg	3.15kg
	24,000lm		200lm/W		
	16,800lm	240W(100%)	140lm/W		
	48,000lm		200lm/W		
	33,600lm	192W(80%)	140lm/W		
	38,400lm		200lm/W		
	26,880lm	144W(60%)	140lm/W		
	28,800lm		200lm/W		
	20,160lm		140lm/W		

Beam Angle

Symmetric: 60° , 90° , 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70 , 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.9
Total Harmaonic Distrution: $<15\%$
Surge Protection: 6kV, 10kV optional
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI 2, Microwave Sensor

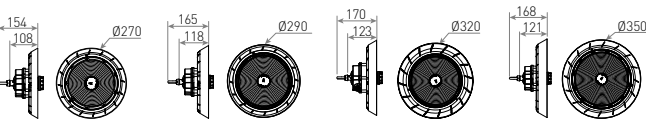
Lifespan and Warranty

Operating Temperature: -30°C to $+45^\circ\text{C}$
Life Time of LED @Ta $+25^\circ\text{C}$: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W CTN DIM	150W CTN DIM	200W CTN DIM	240W CTN DIM
L315, W315, H140	L335, W335, H150	L340, W340, H155	L365, W365, H150



HB16

100% Tool-Free Adjustment. Maximum Deployment Speed.

All-in-One Electronic Tunable High Bay Engineered for Rapid Installation and Supply Chain Agility.

** For standard warehouses, garages, and large retail halls, the primary cost drivers are installation labor and distributor inventory overhead.
** The HB16 is engineered to optimize both. It completely removes mechanical complexity by enabling instant beam angle adjustment (Narrow/Medium/Wide) directly through a built-in DIP switch—no physical lens replacement or tool manipulation required. Featuring parallel micro-current tuning for Power and CCT, it allows contractors to configure the exact lighting specs instantly on-site, ensuring immediate ROI and rapid project turnover.

170
lm/W

60-200
Power Wattage

3-in-1
Beam Angle
Adjustable

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

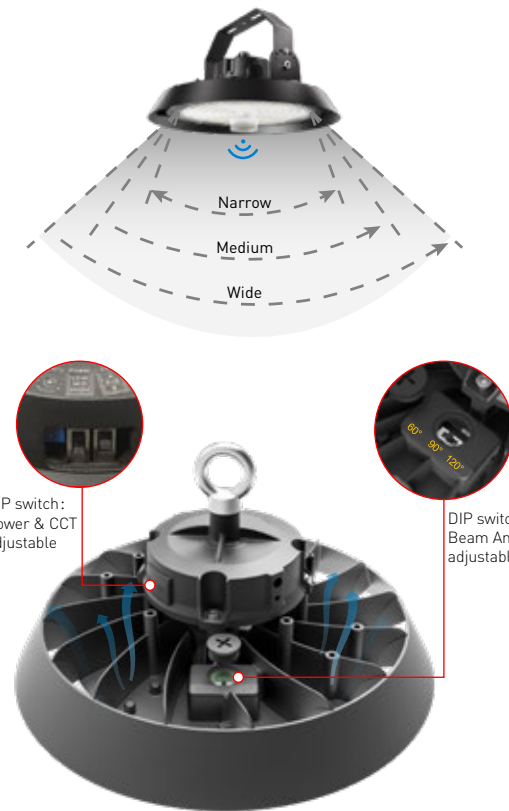
K10
Mech.impact
Protection

Fetures

- Electronic Beam Switching: A triple-lens module paired with dedicated circuitry enables instant beam-angle adjustment via DIP switch only.
- Tool-Free Configuration: 100% tool-free on-site tuning for power (60%, 80%, or 100%), CCT, and optics maximizes contractor installation efficiency.
- Auto-Calculating Midpoint: Smart linear CCT tuning automatically calculates and delivers the precise midpoint between user-defined minimum and maximum values.
- Industrial Durability: Features a die-cast ADC12 aluminum heat sink rated for IP65 wet locations and IK10 impact resistance.
- Plug-and-Play Sensor Integration: A standard sensor-ready base enables immediate energy savings via modular microwave or infrared sensors.

Instant Electronic Beam Switching

The HB16 introduces an integrated optical and electrical system that completely eliminates the need for physical lens replacements. Utilizing a unique triple-lens module paired with dedicated circuitry, contractors can instantly toggle between preset beam angles—such as Narrow, Medium, or Wide—directly via a built-in DIP switch. This 100% tool-free adjustment allows rapid on-site adaptation to varying ceiling heights and specific illuminance demands, significantly reducing installation labor time and eliminating the risk of misplacing spare optical components



Accessories



Specifications

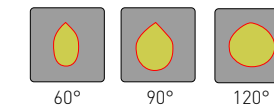
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB16-100	17,000lm	100W(100%)	170lm/W	1.48kg	1.98kg
	16,000lm	80W(80%)	160lm/W		
	13,600lm		170lm/W		
	12,800lm		160lm/W		
	10,200lm	60W(60%)	170lm/W		
HB16-150	9,600lm		160lm/W	1.6kg	2.1kg
	25,500lm	150W(100%)	170lm/W		
	24,000lm	120W(80%)	160lm/W		
	20,400lm		170lm/W		
	19,200lm		160lm/W		
HB16-200	15,300lm	90W(60%)	170lm/W	2.1kg	2.6kg
	14,400lm		160lm/W		
	34,000lm	200W(100%)	170lm/W		
	32,000lm	160W(80%)	160lm/W		
	27,200lm		170lm/W		
	25,600lm		160lm/W		
	20,400lm	120W(60%)	170lm/W		
	19,200lm		160lm/W		

Beam Angle

Symmetric: Narrow (60°), Medium (90°), Wide (120°)



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.9
Total Harmaonic Distrution: <15%
Surge Protection: 6kV, 10kV optional
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI 2, Microwave Sensor

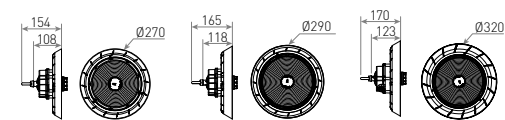
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W CTN DIM L315, W315, H140	150W CTN DIM L335, W335, H150	200W CTN DIM L340, W340, H155
-------------------------------------	-------------------------------------	-------------------------------------





HB15

Adaptive Power. Optimized Visual Comfort.

Versatile 3-in-1 Tunable LED High Bay with Anti-Glare Ring Optics for Commercial and Industrial Spaces.

** Distributors face immense inventory pressures attempting to stock various high bay wattages for different ceiling heights. Meanwhile, workers in logistics hubs and retail spaces often suffer from visual fatigue caused by the harsh glare of exposed LED chips in conventional fixtures.

** The HB15 series perfectly balances supply chain efficiency with optical comfort. Its built-in 3-in-1 wattage tuning instantly adapts to various ceiling heights, drastically reducing distributor SKU counts. Paired with an innovative frosted-center ring lens, it delivers up to 170 lm/W of uniform, glare-free illumination, making it the ultimate versatile workhorse for multi-application projects.

200
lm/W

60-240
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

K10
Mech.impact
Protection

Fetures

- 3-in-1 Power Tuning: Built-in DIP switch for instant 100%/80%/60% power adjustment—no on-site wattage mismatch.
- SKU Consolidation: One platform fits all mounting heights—reduces distributor inventory and procurement complexity.
- Anti-Glare Ring Lens: Optical-grade PC ring with frosted center eliminates LED hotspots and ensures uniform light appearance.
- Die-Cast Thermal Architecture: Large umbrella-shaped ADC12 heat sink delivers reliable 50,000-hour life.
- Reflector Options: Choose 60° or 90° PC, or high-reflectivity aluminum reflectors—to control stray light and enhance aesthetics.
- Rugged for Harsh Environments: IP65 + IK10 rated, anti-corrosion coated—ideal for dusty workshops and semi-outdoor use.
- Flexible Mounting: Works with hook or ring mounts; adapts seamlessly to chain, rope, or pendant suspension.
- High-Efficacy Output: Up to 170 lm/W system efficacy—optimized for energy ROI with standard 0–10 V dimming.

SKU Consolidation & Height-Adaptive Power

Equipping different warehouse zones typically requires purchasing multiple specific-wattage fixtures. The HB15 simplifies this completely. With an integrated 3-in-1 switch, a single 200W unit can be dialed down to 160W or 120W on-site. This unified platform relieves distributors of heavy stock burdens and allows contractors to adapt to real-time illuminance needs without the downtime of returning mismatched fixtures.



Accessories

Suspension ring

Hook

Suspension chain

U-Bracket

AL Reflector

PC Reflector

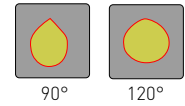
Specifications

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB15-100	17,000lm	100W(100%)	170lm/W	1.45kg	1.95kg
	14,000lm	80W(80%)	140lm/W		
	13,600lm		170lm/W		
	11,200lm	60W(60%)	140lm/W		
	10,200lm		170lm/W		
HB15-150	8,400lm	150W(100%)	140lm/W	1.45kg	1.95kg
	25,500lm		170lm/W		
	21,000lm	120W(80%)	140lm/W		
	20,400lm		170lm/W		
	16,800lm	90W(60%)	140lm/W		
HB15-200	15,300lm		170lm/W	1.8kg	2.3kg
	12,600lm	200W(100%)	140lm/W		
	34,000lm		170lm/W		
	28,000lm	160W(80%)	140lm/W		
	27,200lm		170lm/W		
	22,400lm	120W(60%)	140lm/W		
	20,400lm		170lm/W		
	16,800lm		140lm/W		

Beam Angle

Symmetric: 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 200-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV, 10kV optional
Electrical Protection: Class I
Control: 0-10V Dimming, PWM

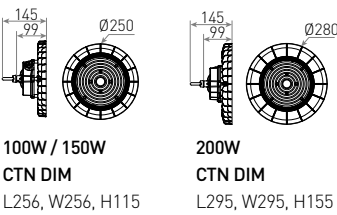
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W / 150W
CTN DIM
L256, W256, H115

200W
CTN DIM
L295, W295, H155





HB13

Omni-Adjustable. Ultimate SKU Consolidation.

The All-in-One Tunable LED High Bay Featuring 3-in-1 Power, CCT, and Beam Angle Adjustment.

** Managing industrial lighting projects traditionally requires distributors to stock dozens of different SKUs to cover varying ceiling heights, photometric requirements, and client color preferences. This ties up immense capital and increases the risk of installing the wrong fixture on-site.

** The HB13 completely revolutionizes inventory economics. It integrates an unprecedented triple-tunable platform: an internal DIP switch controls Power (100%/80%/60%) and CCT (WW/NW/CW), while the adjustable optical module instantly switches beam angles (60°/90°/120°). This omni-adaptability allows a single HB13 unit to replace up to 27 conventional SKUs. Delivering a peak efficacy of 200 lm/W and featuring a plug-and-play sensor port, it is the ultimate future-proof workhorse for modern facilities.

200

lm/W

60-240

Power Wattage

3-in-1

Wattage Adjustable

3-in-1

CCT Adjustable

IP65

Ingress Protection

K10

Mech.impact Protection

Fetures

- Triple-Tunable Platform: Adjust power (100%/80%/60%), CCT, and beam angle—60°, 90°, or 120°—from one fixture.
- Tool-Free Beam Switching: Swap beam angles instantly—no tools needed.
- SKU Simplification: One fixture replaces multiple SKUs—reduces inventory burden and improves cash flow.
- Peak Efficacy: 200 lm/W system output—cuts energy use by over 50%.
- Plug-and-Play Sensor Ready: Built-in port supports PIR, microwave, or daylight sensors—no rewiring.
- Driver-Isolated Thermal Design: Power supply physically separated from LED module—prevents thermal derating, ensures stable output.
- Heavy-Duty ADC12 Chassis: Die-cast ADC12 aluminum heat sink enables rapid heat dissipation in demanding environments.
- Industrial Protection: IP65 + IK10 rated—built for dusty, humid, and hazardous locations.

Plug-and-Play Smart Facility Upgrades

Standard high bays require complex external wiring and additional relay boxes to integrate motion or daylight sensors, driving up installation costs. The HB13 eliminates this barrier with a pre-wired, central sensor receptacle. Facility managers can effortlessly plug in modular Microwave or PIR sensors directly into the face of the luminaire at any time. This allows warehouses to deploy advanced energy-saving strategies—like daylight harvesting and occupancy dimming—instantly, turning a basic lighting retrofit into a future-proof smart building foundation.



Plug-and-Play

Accessories

Suspension ring

Hook

Suspension chain

U-Bracket

AL Reflector

PC Reflector

Sensor



Specifications

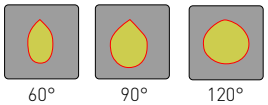


Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB13-100	20,000lm	100W(100%)	200lm/W	1.65kg	2.15kg
	14,000lm		140lm/W		
	16,000lm	80W(80%)	200lm/W		
	11,200lm		140lm/W		
	12,000lm	60W(60%)	200lm/W		
HB13-150	8,400lm		140lm/W	1.80kg	2.30kg
	30,000lm	150W(100%)	200lm/W		
	21,800lm		140lm/W		
	24,000lm	120W(80%)	200lm/W		
	16,800lm		140lm/W		
HB13-200	18,000lm	90W(60%)	200lm/W	2.35kg	2.85kg
	12,600lm		140lm/W		
	40,000lm	200W(100%)	200lm/W		
	28,000lm		140lm/W		
	32,000lm	160W(80%)	200lm/W		
HB13-240	22,400lm		140lm/W	2.50kg	2.95kg
	24,000lm	120W(60%)	200lm/W		
	16,800lm		140lm/W		
	48,000lm	240W(100%)	200lm/W		
	33,600lm		140lm/W		
	38,400lm	192W(80%)	200lm/W		
	26,880lm		140lm/W		
	28,800lm	144W(60%)	200lm/W		
	20,160lm		140lm/W		

Beam Angle

Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distruition: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, PWM, DALI

Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]

100W
CTN DIM
L275, W275, H125

150W
CTN DIM
L295, W295, H130

200W
CTN DIM
L315, W315, H130

240W
CTN DIM
L350, W350, H130



HB12

Convective Thermal Management. Ultimate Project Economics.

Cost-Effective Tunable LED High Bay Featuring Air Convection Heat Sink and Plug-and-Play Smart Sensor Interface.

** Standard warehouse, factory, and retail lighting retrofits often face strict budget limitations. However, relying on ultra-low-cost conventional high bays typically results in compromised thermal management, leading to rapid lumen depreciation, overheating failures, and zero capacity for future smart upgrades. ** The HB12 series is engineered to perfectly balance budget constraints with premium performance. It introduces an innovative air convection die-cast heat sink that utilizes a physical thermal draft to drastically improve cooling efficiency. Delivering an exceptional 200 lm/W system efficacy within a highly cost-effective, compact chassis, the HB12 features on-site Power and CCT tuning alongside a central sensor-ready port. This ensures immediate ROI while preserving your facility's ability to seamlessly upgrade to smart IoT controls in the future.

200
lm/W

200
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

IK10
Mech.impact
Protection

Fetures

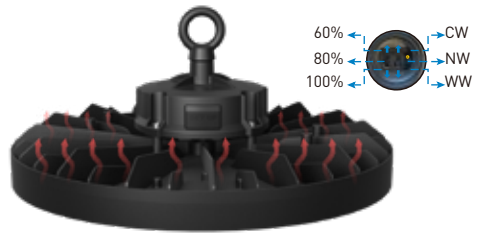
- Convective Thermal Architecture: ADC12 die-cast aluminum housing with integrated air convection holes—uses chimney effect for rapid internal heat dissipation.
- On-Site Dual Tuning: Built-in DIP switch sets wattage and CCT instantly—reduces distributor SKU count.
- Peak Efficacy: 200 lm/W system output—delivers maximum energy savings in large warehouses.
- Sensor-Ready Interface: Pre-wired central port—plug-and-play integration of microwave or PIR sensors, no rewiring.
- Rugged Protection: IP65 + IK10 rated—stable in humid and high-risk industrial environments.
- Optical Options: Choose 60°, 90°, or 120° lenses to match aisle width and ceiling height.
- Compact & Lightweight: Optimized thermal design yields a slimmer, lighter fixture—lowers shipping costs and eases high-mount installation.
- Universal Dimming: Standard 0–10 V and DALI support—meets diverse facility control needs.

Sensor-Ready for Future IoT Upgrades

No premium required. Standard “Sensor-Ready” interface lets you upgrade anytime: just plug in a microwave or PIR sensor—no rewiring, no downtime. Turn a high-efficiency high bay into a smart, occupancy-responsive fixture—effortlessly and at low cost.

Convective Heat Sink: Small size, high cooling performance

ADC12 die-cast body with integrated air convection holes —uses natural chimney effect for continuous internal airflow. Delivers lower junction temperatures without added weight or cost. Compact, lightweight design cuts shipping and installation costs—and sustains >95% lumen output over 50,000 hours.



Accessories

Suspension ring

Hook

Suspension chain

U-Bracket

Sensor



Specifications

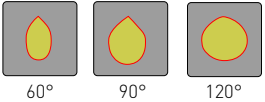
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB12-100	20,000lm	100W(100%)	200lm/W	1.45kg	1.95kg
	14,000lm		140lm/W		
	16,000lm	80W(80%)	200lm/W		
	11,200lm		140lm/W		
HB12-150	12,000lm	60W(60%)	200lm/W	1.60kg	2.10kg
	8,400lm		140lm/W		
	30,000lm	150W(100%)	200lm/W		
	21,800lm		140lm/W		
HB12-200	24,000lm	120W(80%)	200lm/W	2.15kg	2.65kg
	16,800lm		140lm/W		
	18,000lm	90W(60%)	200lm/W		
	12,600lm		140lm/W		
HB12-240	40,000lm	200W(100%)	200lm/W	2.30kg	2.75kg
	28,000lm		140lm/W		
	32,000lm	160W(80%)	200lm/W		
	22,400lm		140lm/W		
	24,000lm	120W(60%)	200lm/W	2.30kg	2.75kg
	16,800lm		140lm/W		
	48,000lm	240W(100%)	200lm/W		
	33,600lm		140lm/W		
	38,400lm	192W(80%)	200lm/W	2.30kg	2.75kg
	26,880lm		140lm/W		
	28,800lm	144W(60%)	200lm/W		
	20,160lm		140lm/W		

Beam Angle

Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI, Microwave Sensor

Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]

100W
CTN DIM
L275, W275, H125

150W
CTN DIM
L295, W295, H130

200W
CTN DIM
L315, W315, H130

240W
CTN DIM
L350, W350, H130

HB10

Ultra-Slim Light. Ultimate Project Economic

An ultra-thin, monolithically integrated LED high bay designed to slash freight costs and dominate budget-critical bids.

****** Low-cost high bays in highly competitive volume bidding projects often sacrifice basic industrial durability and incur high shipping costs due to bulky designs. Distributors and contractors urgently need a slim, lightweight high bay that hits aggressive price points and minimizes freight expenses without sacrificing structural integrity.

****** The HB10 series delivers this through an ultra-thin, structural cost-reduction approach. By engineering the driver housing and the main heat sink into a single, seamless monolithic cast, we have compressed the vertical footprint to its absolute limit. This ultra-slim profile dramatically slashes raw manufacturing costs and international logistics expenses per unit. The result is a budget-champion solution that accelerates installation speed, cuts freight overhead, and still guarantees IP65 wet-location protection and IK10 impact resistance.

160
lm/W

60-200
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

IK10
Mech.impact
Protection

Fetures

- Ultra-Slim Monolithic Design: Driver and heat sink integrated into one low-profile unit—saves space and weight.
- Compressed Freight Footprint: Ultra-thin profile reduces packaging height—maximizes container load efficiency.
- High-Volume Bid Advantage: Engineered for aggressive pricing—wins large-scale tenders without compromising core performance.
- Effortless High-Mount Installation: Featherweight, ultra-thin design cuts installer fatigue and simplifies overhead lifting.
- On-Site Tuning: Built-in DIP switch adjusts power and CCT instantly—no tools, no delays.
- Sealed Monolithic Housing: Seamless ultra-thin enclosure meets IP65 + IK10 without gaskets or seams.
- 360° Convection Cooling: Radially arranged aluminum fins enable full-directional heat dissipation in minimal depth.
- Universal Control Ready: Standard 0–10 V dimming + sensor expansion port—enables smart features on budget projects.

Ultra-Slim Heat Sink Structure

Reducing a high bay’s profile to an ultra-thin thickness usually implies sacrificing the thermal mass needed for high wattage. The HB10 shatters this limitation through advanced monolithic die-casting. By entirely removing the structural boundary between the power supply housing and the cooling fins, the fixture achieved an exceptionally compressed vertical footprint. This elimination of excess metal volume, joining brackets, and fastening screws translates directly to manufacturing cost savings. It creates an ultra-thin industrial workhorse that expels heat efficiently while maintaining top-tier mechanical strength.



Accessories





Suspension
ring

Hook

Suspension
chain

U-Bracket

AL Reflector

PC Reflector

Sensor

Specifications

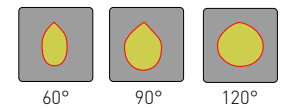
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB10-100	16,000lm	100W(100%)	160lm/W	1.4kg	1.8kg
	14,000lm		140lm/W		
	12,800lm		160lm/W		
	11,200lm	80W(80%)	140lm/W		
	9,600lm		160lm/W		
HB10-150	8,400lm	60W(60%)	160lm/W	1.5kg	1.9kg
	24,000lm		140lm/W		
	21,800lm		160lm/W		
	19,200lm	120W(80%)	160lm/W		
	16,800lm		140lm/W		
HB10-200	14,400lm	90W(60%)	160lm/W	1.7kg	2.4kg
	12,600lm		140lm/W		
	32,000lm		160lm/W		
	28,000lm	200W(100%)	140lm/W		
	25,600lm		160lm/W		
	22,400lm	160W(80%)	140lm/W		
	19,200lm		160lm/W		
	16,800lm		140lm/W		

Beam Angle

Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI, Microwave Sensor

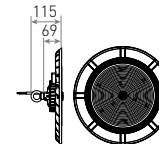
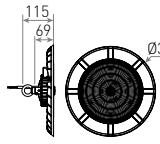
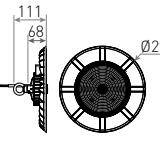
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W
CTN DIM
L275, W275, H125

150W
CTN DIM
L295, W295, H130

200W
CTN DIM
L315, W315, H130



HB09

Isolated Reliability. Smart-Ready Versatility.

Cost-effective, dual-tunable LED high bay with driver-isolated thermal design and plug-and-play external sensor support.

** For warehouse and factory retrofits, facility managers need affordable, reliable lighting that supports future smart upgrades. Traditional budget high bays mount the driver directly on the LED heat sink—causing thermal stress that cuts lifespan. Retrofitting smart controls later often demands costly structural changes. ** The HB09 solves both problems without raising costs. Its driver-isolated thermal design separates the power supply from the ADC12 heat sink, ensuring stable 170 lm/W output and a full 50,000-hour life. On-site tuning is simple with built-in Dual DIP switches for power and CCT. And it natively supports plug-and-play external smart sensors—no rewiring or redesign needed. Industrial-grade versatility, at a budget-friendly price.

170
lm/W

60-240
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

IK10
Mech.impact
Protection

Fetures

- Ultra-Slim Monolithic Design: Driver and heat sink integrated into one low-profile unit—saves space and weight.
- Compressed Freight Footprint: Ultra-thin profile reduces packaging height—maximizes container load efficiency.
- High-Volume Bid Advantage: Engineered for aggressive pricing—wins large-scale tenders without compromising core performance.
- Effortless High-Mount Installation: Featherweight, ultra-thin design cuts installer fatigue and simplifies overhead lifting.
- On-Site Tuning: Built-in DIP switch adjusts power and CCT instantly—no tools, no delays.
- Sealed Monolithic Housing: Seamless ultra-thin enclosure meets IP65 + IK10 without gaskets or seams.
- 360° Convection Cooling: Radially arranged aluminum fins enable full-directional heat dissipation in minimal depth.
- Universal Control Ready: Standard 0–10 V dimming + sensor expansion port—enables smart features on budget projects.



Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI, Microwave / Infrared / Daylight Sensor

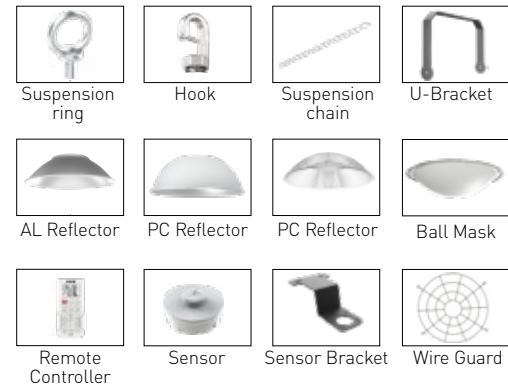
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Accessories



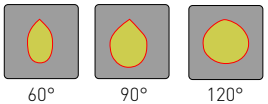
Specifications

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB09-100	17,000lm	100W(100%)	170lm/W	1.48kg	1.98kg
	16,000lm		160lm/W		
	15,000lm		150lm/W		
	14,000lm		140lm/W		
	13,600lm	80W(80%)	170lm/W		
	12,800lm		160lm/W		
	12,000lm		150lm/W		
	11,200lm		140lm/W		
	10,200lm	60W(60%)	170lm/W		
	9,600lm		160lm/W		
HB09-150	9,000lm		150lm/W	1.6kg	2.1kg
	8,400lm		140lm/W		
	25,500lm	150W(100%)	170lm/W		
	24,000lm		160lm/W		
	22,500lm		150lm/W		
	21,000lm		140lm/W		
	20,400lm	120W(80%)	170lm/W		
	19,200lm		160lm/W		
	18,000lm		150lm/W		
	16,800lm		140lm/W		
HB09-200	15,300lm	90W(60%)	170lm/W	2.1kg	2.6kg
	14,400lm		160lm/W		
	13,500lm		150lm/W		
	12,600lm		140lm/W		
	34,000lm	200W(100%)	170lm/W		
	32,000lm		160lm/W		
	30,000lm		150lm/W		
	28,000lm		140lm/W		
	27,200lm	160W(80%)	170lm/W		
	25,600lm		160lm/W		
HB09-240	24,000lm		150lm/W	2.1kg	2.6kg
	22,400lm		140lm/W		
	20,400lm	120W(60%)	170lm/W		
	19,200lm		160lm/W		
	18,000lm		150lm/W		
	16,800lm		140lm/W		
	40,800lm	240W(100%)	170lm/W		
	38,400lm		160lm/W		
	36,000lm		150lm/W		
	33,600lm		140lm/W		
	32,640lm	192W(80%)	170lm/W		
	30,720lm		160lm/W		
	28,800lm		150lm/W		
	12,880lm		140lm/W		
	24,480lm	144W(60%)	170lm/W		
	23,040lm		160lm/W		
	21,600lm		150lm/W		
	20,160lm		140lm/W		

Beam Angle

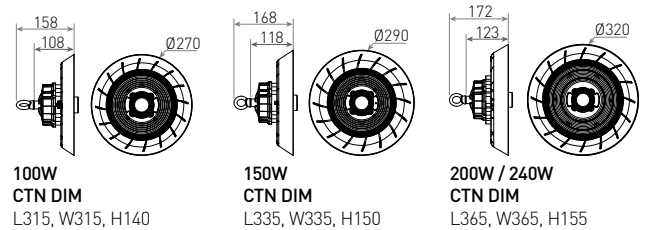
Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Dimensions[mm]





HB06

Dual Driver Compatibility. Built for SKD Assembly.

Mount your preferred round or linear drivers on a single 210 lm/W high-efficacy thermal heat sink.

** Global OEMs, SKD assemblers, and large distributors often hit supply chain bottlenecks when heatsinks only fit one driver shape—limiting local sourcing options and raising production costs. Worse, top-tier energy rebates demand ultra-high efficacy (e.g., 210 lm/W), which standard thermal designs can't sustain.
** The HB06 solves both: its ADC12 die-cast chassis features a dual-mounting architecture compatible with both round UFO and linear drivers—enabling full regional driver flexibility. Combined with premium LEDs, it delivers 210 lm/W efficacy out of the box—making it the most robust, rebate-ready, and profitable platform for global lighting brands.

210
lm/W

60-240
Power Wattage

3-in-1
Wattage
Adjustable

3-in-1
CCT
Adjustable

IP65
Ingress
Protection

IK08 / IK10
Mech.impact
Protection

Fetures

- Dual-Mount Driver Architecture: Top plate accepts round UFO and linear drivers interchangeably—enabling local sourcing and eliminating driver lock-in.
- 210 lm/W Efficacy: Delivers peak 210 lm/W with low thermal load—qualified for top-tier global energy rebates.
- OEM & SKD Ready: Proven chassis for custom high-performance fixtures—designed for reliability, scalability, and fast time-to-market.
- ADC12 Thermal Engine: Die-cast aluminum housing with optimized fin geometry ensures rapid, uniform heat dissipation—protecting LED junctions over lifetime.
- IP65 + IK10 Rated: Fully sealed for wet locations; impact-resistant to IK10—built for demanding industrial environments.
- Precision Optics: Choose 60°, 90°, or 120° PC lenses for accurate light distribution at any ceiling height.
- Smart Control Compatible: Native support for 0–10V dimming and DALI-2.0—integrates seamlessly into BMS without gateways.
- Global Voltage Input: Auto-sensing AC100–277V operation—works worldwide with no configuration needed.

Up to 210 lm/W

As governments and corporations push toward carbon neutrality, energy efficiency standards for industrial lighting are becoming severely strict. Standard 140 lm/W high bays are rapidly becoming obsolete. The HB06 leaps ahead of the curve, utilizing top-tier LED arrays and a highly conductive ADC12 thermal architecture to deliver an astonishing 210 lm/W. This extreme efficacy not only slashes end-user electricity bills by an additional 30% but also guarantees qualification for the most lucrative global utility rebate programs, making the HB06 an effortless sell for major retrofit contracts.

Round & Linear Compatibility



Accessories

Suspension ring

Hook

Suspension chain

U-Bracket

Glass

60° / 90°
AL Reflector

60° / 90°
PC Reflector

Ball Mask

Remote Controller

Sensor

Sensor Bracket

Wire Guard

Specifications

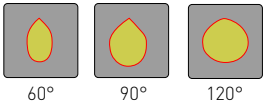
HB

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB06-100	21,000lm	100W(100%)	210lm/W	2.15kg	3.0kg
	14,000lm		140lm/W		
	16,800lm	80W(80%)	210lm/W		
	11,200lm		140lm/W		
HB06-150	12,600lm	60W(60%)	210lm/W	2.15kg	3.0kg
	8,400lm		140lm/W		
	31,500lm	150W(100%)	210lm/W		
	21,000lm		140lm/W		
HB06-200	25,200lm	120W(80%)	210lm/W	4.0kg	4.5kg
	16,800lm		140lm/W		
	18,900lm	90W(60%)	210lm/W		
	12,600lm		140lm/W		
HB06-240	42,000lm	200W(100%)	210lm/W	4.0kg	4.5kg
	28,000lm		140lm/W		
	33,600lm	160W(80%)	210lm/W		
	22,400lm		140lm/W		
	25,200lm	120W(60%)	210lm/W	4.0kg	4.5kg
	16,800lm		140lm/W		
	50,400lm	240W(100%)	210lm/W		
	33,600lm		140lm/W		
	40,320lm	192W(80%)	210lm/W	4.0kg	4.5kg
	12,880lm		140lm/W		
	32,240lm	144W(60%)	210lm/W		
	20,160lm		140lm/W		

Beam Angle

Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V / 1-10V Dimming, DALI, Microwave / Infrared / Daylight Sensor

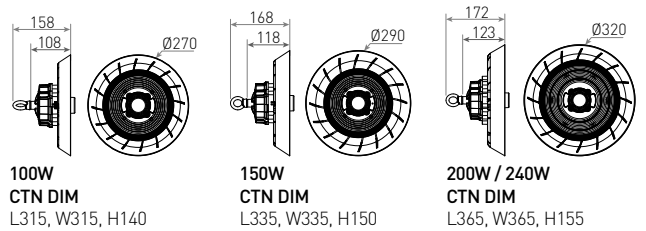
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens / Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]





HB05

Superior Efficiency · High Output Exceptional Coverage

High-output industrial LED high bay: up to 42,000 lumens — built for reliability in large-scale facilities.

** Massive indoor spaces—like heavy manufacturing plants, aviation hangars, and high-rack warehouses—require extreme luminous flux. Standard high bays struggle to deliver sufficient light from high ceilings, leading to over-specification: extra fixtures, higher energy use, and increased maintenance.

** The HB05 series conquers large-scale spaces: a high-output flagship platform scaling to 300W and delivering 42,000 lumens with precision. Its 360° rapid-cooling thermal architecture and up to 175 lm/W efficacy cut fixture counts per project—boosting energy ROI and long-term productivity.

175
lm/W

100-300
Power Wattage

IP65
Ingress
Protection

IK08/IK10
Mech.impact
Protection

Fetures

- Built for extreme ceiling heights: up to 300W output and 42,000 lumens of continuous light.
- Premium Lumileds 3030 and Samsung 2835 LEDs deliver 175 lm/W efficacy—cutting heavy industrial energy costs.
- 5 power levels × 5 CCT options × 3 optical distributions—fully configurable to any project requirement.
- Die-cast aluminum chassis with 360° convective fins ensures stable thermal performance and prevents LED junction degradation.
- IP65 sealed + IK10 rated—engineered for harsh manufacturing environments.
- Native support for 0–10V, DALI-2.0, and motion sensors—plug-and-play integration into automated facility controls.

42,000 lumens output

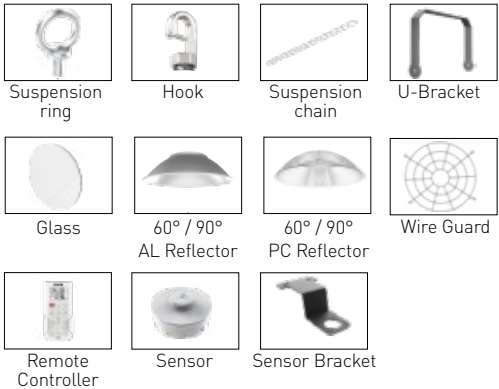
Illuminating heavy manufacturing plants from heights exceeding 15 meters requires fixtures capable of running at high wattages continuously. Standard high bays often lack the necessary thermal mass for this application. The HB05 addresses this by utilizing a heavy-duty die-cast aluminum core engineered to safely manage up to 300 watts. By effectively dissipating the heat required to produce 42,000 lumens, the fixture maintains safe LED junction temperatures. This structural thermal capacity ensures consistent ground-level illuminance and prevents the premature lumen degradation common in heavy-industry applications.

Standardizing Facility-Wide Deployments

Large-scale retrofits face varying ceiling heights and task lighting needs—often requiring multiple fixture models. The HB05 solves this with a unified platform: 5 wattages (100–300W), 5 CCTs, and 3 optics (60°/90°/120°). Use the same fixture profile for 60° in high-rack aisles and 120° in open assembly areas. Simplifies procurement, standardizes spares, and maintains consistent aesthetics.



Accessories



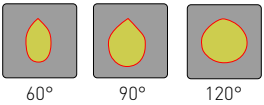
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB05-100	17,500lm 13,000lm	100W	175lm/W 130lm/W	2.95kg	3.75kg
HB05-150	26,250lm 19,500lm	150W	175lm/W 130lm/W	3.5kg	4.3kg
HB05-200	35,000lm 26,000lm	200W	175lm/W 130lm/W	4.4kg	5.3kg
HB05-240	40,800lm 31,200lm	240W	170lm/W 130lm/W	5.1kg	5.9kg
HB05-300	42,000lm	300W	140lm/W	5.1kg	5.9kg

Beam Angle

Symmetric: 60°, 90°, 120°



Light Technical

3-in-1 CCT adjustable: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 220-240VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 1-10V Dimming, DALI, Microwave / Infrared / Daylight Sensor

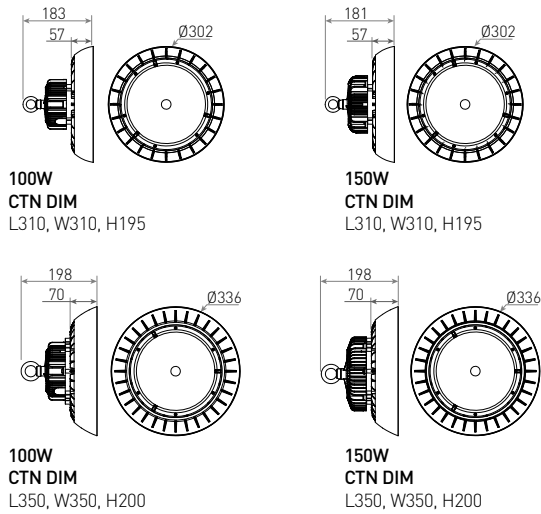
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens / Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]





HB23

Uniform Illumination. Modular Scalability

A linear panel-style high bay designed to deliver highly uniform, low-glare illumination with scalable power configurations up to 450W.

** In environments such as indoor sports halls, detailed inspection lines, or retail warehouses, standard high bays often create intense hotspots and harsh glare, leading to severe visual fatigue for workers and customers. Furthermore, achieving aesthetic consistency across different mounting heights often requires mixing incompatible fixture designs.

** The HB23 is engineered specifically for visual comfort and structural adaptability. Utilizing a wide, flat light-emitting surface with an 85° beam angle, it diffuses light evenly across the floor plane, minimizing glare and harsh shadows. Its modular architecture allows specifiers to scale the fixture length and wattage (from 100W to 450W) to match specific ceiling heights, all while maintaining a clean, refined appearance and robust IP66/IK10 industrial protection.

155
lm/W

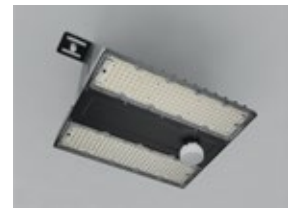
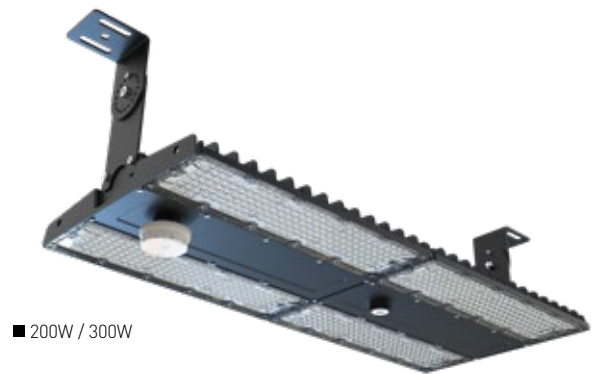
100-450
Power Wattage

IP66
Ingress
Protection

IK10
Mech.impact
Protection

Fetures

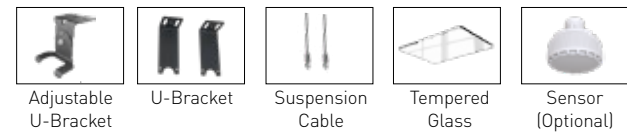
- Panel-style surface: Wide, flat optics cut glare—ideal for retail aisles and precision tasks.
- Modular power: 100–450 W scaling adapts seamlessly to varying ceiling heights.
- 150 lm/W efficacy: Lumileds LEDs deliver stable, high-efficiency light—cutting long-term energy costs.
- ADC12 die-cast core: Heavy-duty aluminum heatsink ensures rapid cooling and 50,000-hour lifespan.
- Industrial armor: IP66 sealed + IK10 rated—built for dust, humidity, and hazardous areas.
- Sensor-ready: Pre-wired interface for plug-and-play daylight or motion sensors.
- Refined linear aesthetic: Clean, architectural look—industrial performance meets commercial standards.
- Flexible mounting: Suspended (Y-hangers or cables) or bracket-mounted with adjustable tilt.



Engineered for Visual Comfort

High lumen output is counterproductive if it causes blinding glare for forklift operators or assembly line workers. The HB23 addresses this photometric challenge through its linear panel-style design. Instead of concentrating intense light through a small, circular lens, the HB23 distributes the LED array across a wide, flat surface area with an 85° beam distribution. This physical diffusion creates soft, highly uniform illumination that enhances visibility and reduces eye strain, making it ideal for environments where visual accuracy is critical.

Accessories



Specifications

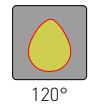
HB

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB23-100	15,500lm	100W	155lm/W	3.5kg	5kg
HB23-150	22,500lm	150W	150lm/W	3.5kg	5kg
HB23-200	31,000lm	200W	155lm/W	5.5kg	7kg
HB23-300	45,000lm	300W	150lm/W	5.5kg	7kg
HB23-300	46,500lm	300W	155lm/W	8.0kg	10kg
HB23-450	67,500lm	450W	150lm/W	8.0kg	10kg

Beam Angle

Symmetric: 85°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 90-305VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX, DALI 2

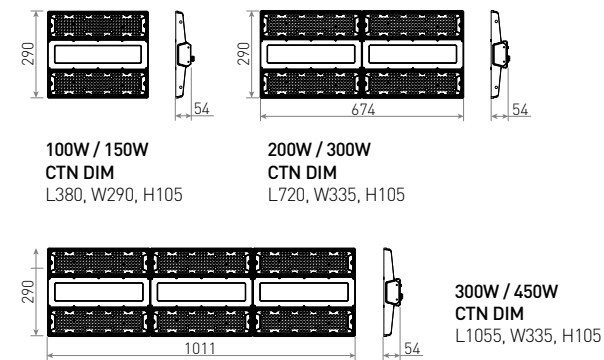
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens+Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]





HB22

Modular Scalability. High-Rack Precision.

A linear high bay offering 1 to 4 scalable modules and specialized narrow optics for complex warehouse aisles.

****** Illuminating narrow warehouse aisles with high racks is inefficient with standard round high bays, which waste light on the tops of shelving. Furthermore, varying ceiling heights across a single logistics center typically force contractors to procure entirely different fixture models.
****** The HB22 is engineered specifically for aisle photometry and structural scalability. Its linear architecture features precision lenses—ranging from tight 15° angles to asymmetric distributions—ensuring light is directed strictly down the aisle and onto rack faces. Structurally, it utilizes a scalable modular design; contractors can combine 1 to 4 units to scale output up to 600W (68,000 lumens) on the same thermal platform. This allows facility managers to standardize a single product family across an entire multi-zone distribution hub.

170
lm/W

150-600
Power Wattage

IP66
Ingress Protection

IK09
Mech.impact Protection

Fetures

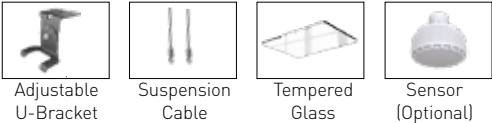
- Scalable Modular Design: Supports 1 to 4 modules, allowing precise power scaling from 150W up to a maximum system power of 600W.
- Aisle-Specific Optics: Features a comprehensive portfolio of narrow and asymmetric beam angles (e.g., 15°, 25°, 40x110°) to eliminate wasted spill light.
- Dual-Chamber Protection: Independent driver and LED chambers reduce heat crossover and lower the risk of water ingress, securing an IP66 rating.
- Glass + PC Armor: A tempered glass cover paired with internal PC lenses provides IK09 impact resistance against industrial hazards.
- 170 lm/W System Efficacy: High-transmittance optics combined with premium LEDs deliver up to 170 lm/W to drastically cut operating costs.
- Chimney-Effect Heat Sink: The die-cast aluminum frame utilizes a vertical convection structure to accelerate airflow and minimize lumen depreciation.
- Zhaga Interface Ready: Optional Zhaga receptacles allow seamless integration with automated daylight and motion smart control systems.



Precision Photometrics for Vertical Racks

Standard high bays disperse light in a circular pattern, wasting energy on the roof of storage racks. The HB22 is an optical tool built for narrow spaces. By utilizing tight 15° and 25° beam angles, or specialized asymmetrical lenses, it pushes light directly down the corridor floor and evenly across the vertical faces of the shelving. This ensures forklift operators can clearly read labels on the highest racks without experiencing blinding glare from surrounding fixtures.

Accessories



Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HB22-150	25,500lm	150W	170lm/W	2.31kg	2.5kg
HB22-300	51,000lm	300W	170lm/W	3.34kg	3.5kg
HB22-450	76,500lm	450W	170lm/W	4.11kg	4.2kg
HB22-600	102,000lm	600W	170lm/W	5.79kg	6.0kg

Beam Angle

Symmetric: 15° / 25° / 40° / 60° / 90°
Asymmetric: P45° / 40°x110° / 90°x120° / 100°x160° / T1 / T2 / T2xP60° / T2-B / T3 / T4 / T5x130°

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC, 90-305VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 6kV
Electrical Protection: Class I
Control: 0-10V Dimming, DMX, DALI 2

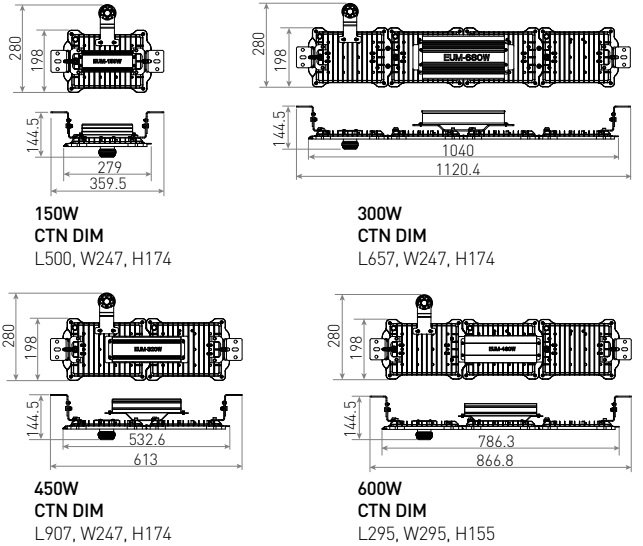
Lifespan and Warranty

Operating Temperature: -40°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens+Tempered glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]





HL02

6063 Extruded Aluminum Linear Light.

A standard 160 lm/W industrial fixture built strictly with a pure extruded chassis and Tier-1 drivers for 24/7 continuous operation.

** In 24/7 manufacturing plants and OEM/SKD assembly projects, electrical stability trumps complex features. Contractors are often burned by budget linear fixtures that fail prematurely due to inferior power supplies or poor structural integrity in the extruded housing.

** The HL02 is built on a philosophy of component uncompromising. It strips away unnecessary complexities and focuses purely on foundational reliability. The chassis is constructed entirely from 6063 aluminum alloy, providing massive passive thermal capacity. Electrically, it is strictly powered by globally recognized MeanWell or Inventronics drivers, paired with authentic Philips LEDs. Delivering a highly stable 130 lm/W, the HL02 ensures zero electrical compromise for large-scale industrial deployments.

160

lm/W

50-240

Power Wattage

IP65

Ingress Protection

IK10

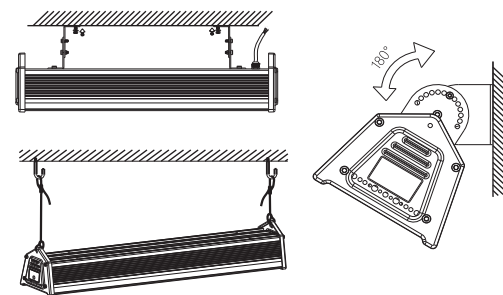
Mech.impact Protection

Fetures

- Top-tier driver: MeanWell or Inventronics — field-proven reliability, zero premature failure.
- Premium light source: Genuine Philips LEDs — 130 lm/W system efficacy, consistent and dependable.
- 6063 aluminum housing: Full extrusion delivers structural rigidity + passive cooling.
- High power factor: >0.90 PF, <15% THD — clean grid integration.
- IP65 rated: Dust- and moisture-sealed — protects electronics in harsh environments.
- Output range: 50–240 W (6,500–31,200 lm) — covers all plant zones with one platform.
- Versatile optics: 30×70°, 60×90°, and 120° beams — optimized for narrow aisles and open workspaces.
- Wide operating range: -30°C to +50°C — engineered for industrial resilience.

Electrical Stability as the Ultimate Priority

In 24-hour manufacturing environments, the cost of lighting downtime often exceeds the cost of the fixtures themselves. The HL02 is built to eliminate maintenance disruptions. Instead of utilizing generic electrical components, it relies strictly on a “Tier-1” supply chain. By pairing authentic Philips LED arrays with heavy-duty MeanWell or Inventronics power drivers, the HL02 guarantees constant current stability, drastically reducing the risk of driver failure and ensuring the promised 50,000-hour operational lifespan.



Specifications

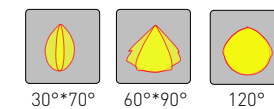
Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HL02-50	7,000lm	50W	140lm/W	1.8kg	2.5kg
	8,200lm	50W	160lm/W	1.8kg	2.5kg
HL02-100	14,000lm	100W	140lm/W	3.0kg	3.8kg
	16,000lm	100W	160lm/W	3.0kg	3.8kg
HL02-150	21,000lm	150W	140lm/W	3.8kg	4.6kg
	24,000lm	150W	160lm/W	3.8kg	4.6kg
HL02-200	28,000lm	200W	140lm/W	3.8kg	4.1kg
	32,000lm	200W	160lm/W	3.8kg	4.1kg
HL02-240	33,600lm	240W	140lm/W	4.2kg	4.5kg
	38,400lm	240W	160lm/W	4.2kg	4.5kg

Beam Angle

Symmetric: 120°

Asymmetric: 30°*70°, 60°*90°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K

CRI: >80Ra

SDCM: 6

Operating and Electrical

Input Voltage: AC100-277V

Power Factor: >0.90

Total Harmaonic Distrution: <15%

Surge Protection: 6kV

Electrical Protection: Class I

Control: -

Lifespan and Warranty

Operating Temperature: -30°C to +50°C

Life Time of LED @Ta+25°C: 50,000Hours

Warranty: 5 years

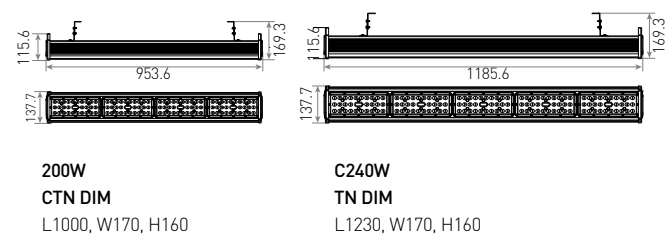
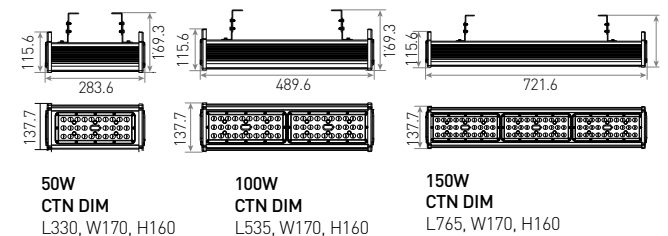
Mechanical and Housing

Optical Cover Type: Polycarbonate lens

Structure & Material & Finish: 6063 Aluminum alloy

Luminaire Colour: Black

Dimensions[mm]





HL03

160 lm/W Efficacy. Hybrid Aluminum Heat Sink.

Engineered with die-cast aluminum end caps and a 6063 extruded body for stable thermal management in warehouse aisles.

** High-bay logistics centers demand extreme energy efficiency to lower operating costs. However, pushing linear fixtures to high luminous efficacies often generates concentrated heat that standard extruded profiles cannot dissipate fast enough, leading to rapid lumen degradation.
** The HL03 is engineered to resolve this thermal bottleneck. It utilizes a hybrid construction: a pure 6063 extruded aluminum main body for large-area passive cooling, reinforced by heavy-duty die-cast aluminum end components to accelerate thermal transfer. Driven by an industrial-grade Sosen power supply and premium Lumileds chips, the HL03 safely sustains a peak 160 lm/W system efficacy while maintaining an IK10 impact rating and IP65 protection.

160

lm/W

50-240

Power Wattage

IP65

Ingress Protection

IK10

Mech.impact Protection

Fetures

- 160 lm/W peak efficacy: Premium Lumileds LEDs slash electricity costs.
- Hybrid thermal construction: Die-cast aluminum + 6063 extrusion — rapid heat dissipation, low junction temps.
- Industrial-grade driver: Sosen AC220–240V / 100–277V supply — >93% efficiency, field-proven reliability.
- Asymmetric aisle optics: 30×70° and 60×90° beams target light precisely down aisles—zero spill.
- IK10 impact resistance: Rugged hybrid chassis withstands severe industrial impacts.
- IP65 rated: Dust- and moisture-sealed; operates reliably from –30°C to +45°C.
- Power range: 50–240 W (6,400–38,400 lm) — scales to any rack height.
- Smart-ready: Optional plug-and-play PD (presence) and D (dimming) sensors for automated facilities.



Precision Photometrics for Logistics Aisles

Logistics centers require light to be pushed vertically down rack faces, not scattered across the ceiling. The HL03 is equipped with specialized asymmetric polycarbonate lenses. By selecting either the 30x70° or 60x90° distribution, specifiers can ensure that light is confined to the narrow geometry of warehouse aisles. This precision minimizes glare for forklift operators and maximizes the lux levels directly on the stored inventory.

Hybrid Cooling for Sustained 160 lm/W

Achieving 160 lm/W is primarily an optical achievement, but sustaining it is a thermodynamic challenge. The HL03 Abandons the standard single-material approach. It integrates heavy die-cast aluminum at critical structural points with a highly conductive 6063 pure aluminum extruded body. This hybrid structure acts as an accelerated thermal bridge, pulling heat away from the Lumileds board and dissipating it efficiently. This ensures the fixture maintains its high lumen output over a 50,000-hour lifespan without thermal throttling.

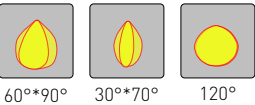
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
HL03-50	7,000lm	50W	140lm/W	1.6kg	2.1kg
	8,000lm	50W	160lm/W		
HL03-100	14,000lm	100W	140lm/W	2.8kg	3.6kg
	16,000lm	100W	160lm/W		
HL03-150	21,000lm	150W	140lm/W	3.2kg	3.7kg
	24,000lm	150W	160lm/W		
HL03-200	28,000lm	200W	140lm/W	3.5kg	4.2kg
	32,000lm	200W	160lm/W		
HL03-240	33,600lm	240W	140lm/W	3.8kg	4.4kg
	38,400lm	240W	160lm/W		

Beam Angle

Symmetric: 120°
Asymmetric: 60°*90°, 30°*70°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70Ra/80Ra
SDCM: 6

Operating and Electrical

Input Voltage: AC220-240V/AC100-277V
Power Factor: >0.93
Total Harmaonic Distrution: <15%
Surge Protection: 10kV
Electrical Protection: Class I
Control: 0-10V Dimming, Microwave Sensor

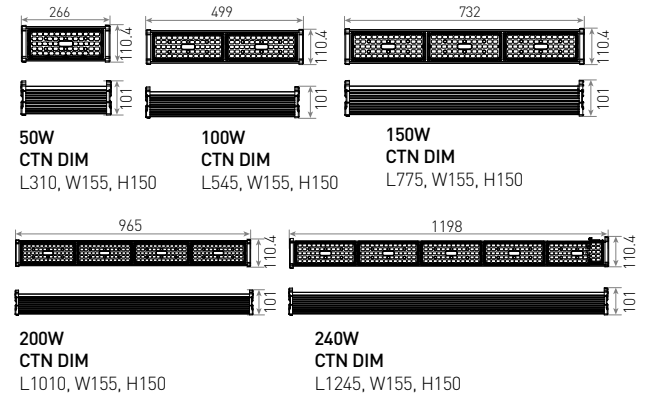
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die cast aluminum and pure aluminum 6063
Luminaire Colour: Black

Dimensions[mm]



STREET, AREA & OUTDOOR LIGHTING

For roads, streets, parking lots, building perimeters, industrial parks, campuses, pathways, and general outdoor areas

ZC Street, Area & Outdoor Lighting is designed for roads, parking lots, building exteriors, industrial parks, campuses, pathways, and general outdoor spaces. The range includes street lights, area lights, wall pack lights, post top lights, parking lot lights, and other outdoor site lighting products. With different optical distributions, mounting options, control interfaces, and maintenance-friendly structures, the products support reliable outdoor operation in municipal, commercial, and industrial projects.

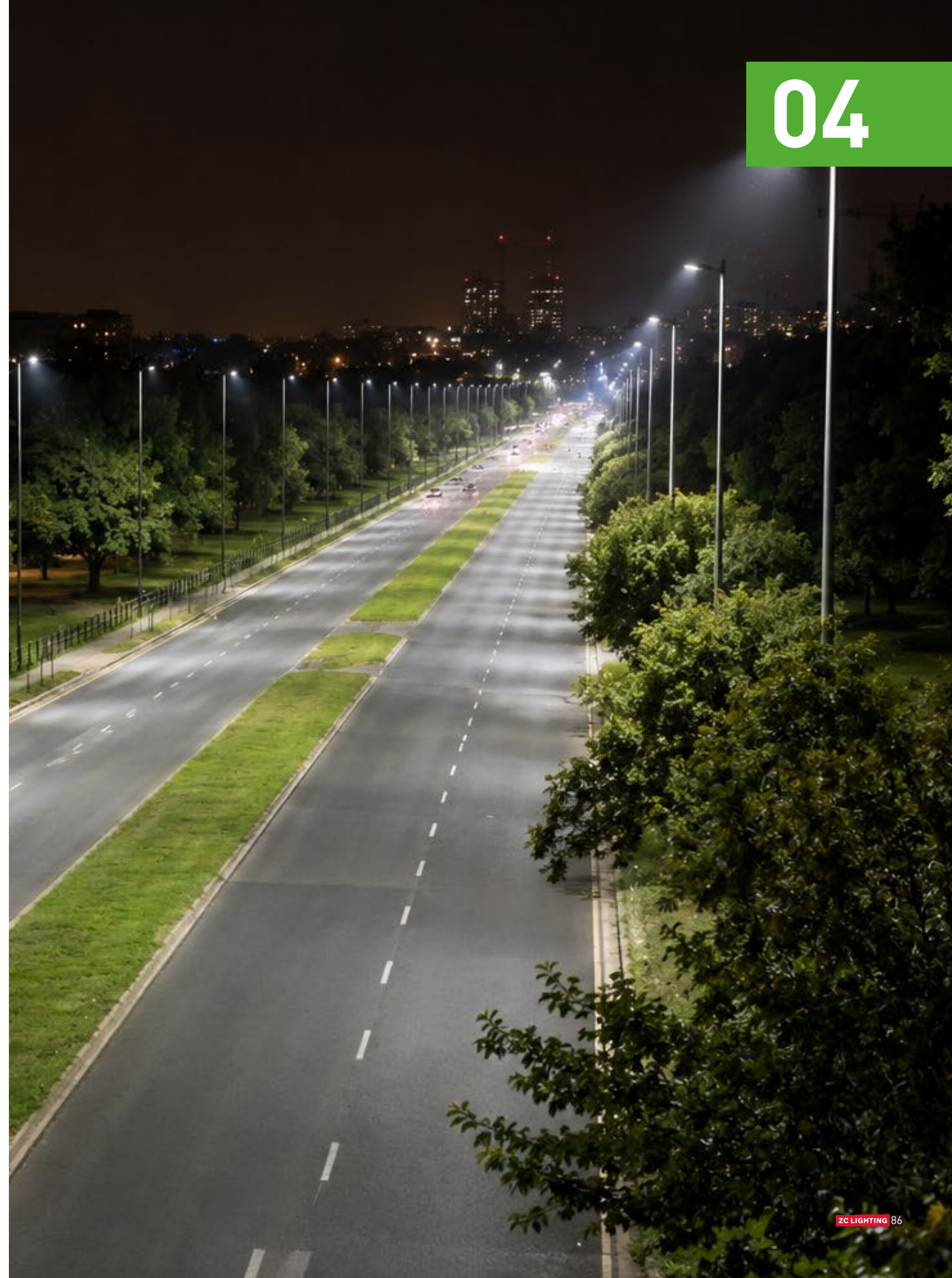


Product Range

Street Lights / Area Lights / Wall Pack Lights / Post Top Lights / Parking Lot Lights / Pathway & Outdoor Site Lighting

Key Requirements

Road Safety | Area Coverage | Outdoor Durability | Optical Distribution | Maintenance Access | Control Compatibility



SL05

Tool-Free maintenance. Municipal-Grade Reliability

A highly integrated, finless LED street light featuring an automatic safety cut-off and dual Zhaga/NEMA compatibility for urban infrastructure.

** Urban road lighting demands extreme reliability, safe high-altitude maintenance, and scalability for smart city integration. Conventional street lights suffer from dust-clogged cooling fins—causing overheating—and require complex tools for access, raising labor costs and safety risks. ** The SL05 series solves these issues. Its smooth, finless die-cast aluminum housing prevents debris buildup and ensures consistent thermal performance. A tool-free latch enables rapid driver access, and an automatic safety switch cuts power instantly upon opening. Pre-equipped with both NEMA and Zhaga interfaces, the SL05 integrates seamlessly with global smart-lighting standards—delivering scalable, future-ready infrastructure for municipalities.

190
lm/W

30-250
Power Wattage

IP66
Ingress Protection

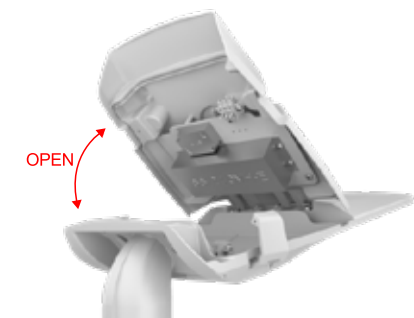
IK10
Mech.impact Protection

Fetures

- Automatic Safety Disconnect: Built-in switch cuts power instantly upon opening—ensuring field maintenance safety.
- Tool-Free Driver Access: Mechanical latch enables rapid, tool-less entry—reducing high-altitude work time.
- Finless Self-Cleaning Body: Smooth die-cast exterior resists dust, sand, and debris—maintaining cooling efficiency in harsh conditions.
- Thermally Isolated Chambers: Physical separation of driver and LED compartments minimizes thermal crossover—extending system life.
- Smart Control Ready: Native support for NEMA photocells and Zhaga nodes—enabling seamless integration into adaptive city networks.
- Modular Optical Lenses: High-transmittance PC lenses deliver Type II, III, and IV distributions—for precise coverage from walkways to multi-lane roads.
- Broad Power Range: 30W–250W models cover all applications—from pedestrian paths to expressways.
- Flexible Mounting: Adjustable sleeve supports horizontal or vertical installation on diverse pole types.

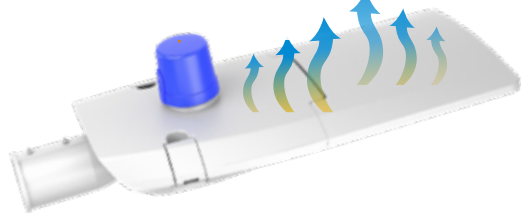
Structural Safety and Maintenance Efficiency

High-pole street light maintenance is costly and hazardous. The SL05 eliminates both risks with a mechanically optimized design: a quick-release, tool-free latch enables instant housing access, and an integrated safety switch cuts power the moment it opens—preventing electric shock during live-line work and enabling faster, safer maintenance without grid shutdown.



Isolated Thermals & Finless Heat Dissipation

Outdoor fixtures often fail when dust insulates the heat sink—spiking LED junction temperature. The SL05 eliminates this failure mode with a smooth, finless die-cast housing that leverages natural wind flow to self-clean. Internally, thermally isolated chambers separate the driver and LED engine—preventing LED heat from degrading driver electronics and ensuring a stable 50,000-hour lifespan.



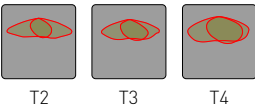
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
SL05-30	5,700lm 5,100lm	30W	190lm/W 170lm/W	3.8kg	4.8kg
SL05-50	9,250lm 8,250lm	50W	185lm/W 165lm/W	3.8kg	4.8kg
SL05-60	9,600lm 8,400lm	60W	180lm/W 160lm/W	3.8kg	4.8kg
SL05-80	15,200lm 13,600lm	80W	190lm/W 170lm/W	5.4kg	6.4kg
SL05-100	18,500lm 16,500lm	100W	185lm/W 165lm/W	5.4kg	6.4kg
SL05-120	21,600lm 19,200lm	120W	180lm/W 160lm/W	5.4kg	6.4kg
SL05-150	27,750lm 24,750lm	150W	185lm/W 165lm/W	6.2kg	7.4kg
SL05-200	36,000lm 32,000lm	200W	180lm/W 160lm/W	6.2kg	7.4kg
SL05-250	4,2500lm 3,7500lm	250W	170lm/W 150lm/W	6.2kg	7.4kg

Beam Angle

Symmetric: T2, T3, T4



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 10kV, 20kV optional
Electrical Protection: Class I
Control: 0-10V Dimming, DALI, Daylight Sensor

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens+Tempered Glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]

30W / 50W / 60W CTN DIM L575, W295, H150	80W / 100W / 120W CTN DIM L660, W345, H155	150W / 200W / 250W CTN DIM L760, W345, H155





SL04

4-in-1 Power Tuning. Streamlined Inventory.

A budget-friendly, finless street light engineered with a 4-step wattage selector to simplify procurement and reduce SKU complexity.

** For regional distributors and contractors managing secondary roads, parks, and rural street projects, stocking specific fixed-wattage street lights ties up significant working capital. Unpredictable project demands often lead to mismatched inventory and delayed installations.
** The SL04 series is designed strictly for inventory optimization and operational flexibility. It integrates a 4-in-1 selectable power switch, allowing a single luminaire to be tuned on-site to four different wattages (e.g., 50W/60W/80W/100W). This drastically reduces the number of SKUs distributors must hold. Built with a tool-free maintenance compartment, a finless dust-free surface, and standard NEMA/Zhaga compatibility, the SL04 delivers rapid deployment and reliable performance for mixed road classes.

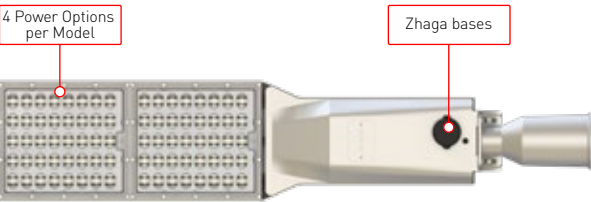
190 **30-250** **IP66** **IK10**
lm/W Power Wattage Ingress Protection Mech.impact Protection

Fetures

- 4-in-1 Wattage Selector: Simplifies inventory with switchable 1000/1100/1150/1200 W modes.
- Tool-Free Power Compartment: Quick-release latch for fast installation and service.
- Dust-Free Die-Cast Housing: Smooth ADC12 aluminum surface prevents dust buildup and maintains cooling efficiency.
- Isolated Thermal Chambers: Separates driver and LED modules to eliminate heat crossover, enhancing reliability and lifespan.
- Global Smart Ready: Pre-fitted NEMA/Zhaga bases for photocells and future smart controls (DALI, DMX, D4i, 0-10V).
- High Efficacy: Up to 170 lm/W using Lumileds LEDs — maximizing energy savings and ROI.
- Adjustable Mounting Bracket: 60 mm sleeve enables horizontal/vertical mounting with ±20° tilt.
- IP66 & IK10 Rated: Built for harsh outdoor environments — fully protected against heavy rain and impact.

Inventory Optimization via 4-in-1 Tuning

Procuring lighting for mixed road classifications typically requires managing dozens of specific wattages. The SL04 consolidates this matrix. By incorporating a built-in 4-step power adjustment switch, a single inventory unit (e.g., SL04-50W-100W) can fulfill the requirements of a 50W rural pathway, a 60W park, or a 100W secondary road. This flexibility allows distributors to reduce their warehouse SKUs to a fraction of traditional levels, freeing up cash flow and ensuring contractors always have the right fixture on hand.



Adaptive Installation and Maintenance

Field deployment efficiency directly impacts project margins. The SL04 is equipped with an adjustable mounting sleeve that accommodates both vertical and straight-arm poles, offering a ±20° tilt to achieve exact photometric targeting. Post-installation, the tool-free power compartment allows maintenance crews to access internal components rapidly. Combined with its smooth, dust-resistant die-cast body, the SL04 minimizes physical degradation and maintenance frequency over its operational lifespan.



Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
SL04-50	8,500lm	50W	170lm/W	2.8kg	3.5kg
SL04-60	9,900lm	60W	165lm/W	2.8kg	3.5kg
SL04-80	12,800lm	80W	160lm/W	2.8kg	3.5kg
SL04-100	15,500lm	100W	155lm/W	2.8kg	3.5kg
SL04-120	20,400lm	120W	170lm/W	3.8kg	4.8kg
SL04-150	24,750lm	150W	165lm/W	3.8kg	4.8kg
SL04-180	28,800lm	180W	160lm/W	3.8kg	4.8kg
SL04-200	31,000lm	200W	155lm/W	3.8kg	4.8kg

Beam Angle

Symmetric: T2



T2

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 220-240VAC / 100-277VAC / 180-528VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 10kV, 20kV optional
Electrical Protection: Class I
Control: 0-10V Dimming, DALI, Daylight Sensor

Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]

50W / 60W / 80W / 100W CTN DIM L688, W215, H135	120W / 150W / 180W / 200W CTN DIM L870, W215, H135





SL03

Multi-Mounting Design with 3-in-1 Power Tuning.

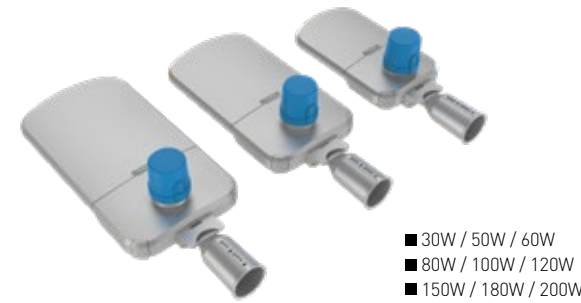
A highly adaptable die-cast street light featuring adjustable brackets and selectable wattages to simplify on-site installation and reduce warehouse SKUs.

** Contractors often encounter mixed installation conditions—some sites have standard vertical poles, while others require side-entry or flat-wall mounting. Supplying different fixtures for each mounting type increases procurement complexity and leaves excess inventory.
** The SL03 series is built for practical flexibility. It features an adaptive bracket that easily switches between top, side-entry, and wall mounting configurations. Internally, a 3-in-1 power switch allows installers to select the correct wattage on the spot (e.g., 80W/100W/120W). This straightforward approach enables distributors to stock a single model that covers multiple road types, minimizing dead inventory while maintaining a high efficacy of up to 190 lm/W.

190 lm/W
30-200 Power Wattage
IP66 Ingress Protection
IK10 Mech.impact Protection

Fetures

- 3-in-1 Power Switch: Built-in wattage selector eliminates need for multiple fixed-power models.
- Versatile Mounting: Hardware for top, side, and wall mounting.
- Tool-Free Maintenance: Quick-release latch opens power compartment instantly.
- High Efficacy: Up to 190 lm/W with Lumileds or Sanan LEDs
- Separated Thermal Zones: LED module and driver physically isolated for heat control.
- NEMA Receptacle Standard: Enables plug-in photocell for dusk-to-dawn operation.
- Dust-Resistant Housing: Flat die-cast top prevents debris buildup, ensures cooling.
- Multiple Beam Angles: T2/T3/T4 PC lenses for single- or multi-lane road lighting.



One Fixture, Three Wattages

Stocking 80W, 100W, and 120W street lights separately ties up distributor cash flow. The SL03 solves this by integrating all three power levels into one unit. Distributors only need to buy and store one SKU. When contractors arrive at the job site, they simply flip the internal switch to match the specific brightness requirement of that street, drastically reducing order errors and leftover inventory.

Adapts to Any Mounting Surface

In rural or retrofit projects, existing poles and building structures are rarely uniform. The SL03 comes with an adaptable bracket system. Installers can adjust the same fixture to slide onto a vertical pole top, attach to a horizontal side-arm, or bolt directly flat against a brick wall. This prevents installation delays and ensures the project keeps moving forward regardless of the existing infrastructure.



TR Bracket: Wall-mounted



Spigot: For both horizontal and vertical pole installation



Tool-Free Power Compartment:
Quick-release latch for safe and efficient maintenance.

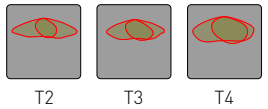
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
SL03-30	5,700lm	30W	190lm/W	2.8kg	3.5kg
	5,100lm		170lm/W	2.8kg	3.5kg
SL03-50	9,250lm	50W	185lm/W	2.8kg	3.5kg
	8,250lm		165lm/W	2.8kg	3.5kg
SL03-60	10,800lm	60W	180lm/W	2.8kg	3.5kg
	9,600lm		160lm/W	2.8kg	3.5kg
SL03-80	15,200lm	80W	190lm/W	3.8kg	4.5kg
	13,600lm		170lm/W	3.8kg	4.5kg
SL03-100	18,500lm	100W	185lm/W	3.8kg	4.5kg
	16,500lm		165lm/W	3.8kg	4.5kg
SL03-120	21,600lm	120W	180lm/W	3.8kg	4.5kg
	19,200lm		160lm/W	3.8kg	4.5kg
SL03-150	27,750lm	150W	185lm/W	4.6kg	5.5kg
	24,750lm		165lm/W	4.6kg	5.5kg
SL03-180	32,400lm	180W	180lm/W	4.6kg	5.5kg
	28,800lm		160lm/W	4.6kg	5.5kg
SL03-200	36,000lm	200W	180lm/W	4.6kg	5.5kg
	32,000lm		160lm/W	4.6kg	5.5kg

Beam Angle

Symmetric: T2, T3, T4



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 220-240VAC / 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 10kV, 20kV optional
Electrical Protection: Class I
Control: 0-10V Dimming, DALI, Daylight Sensor

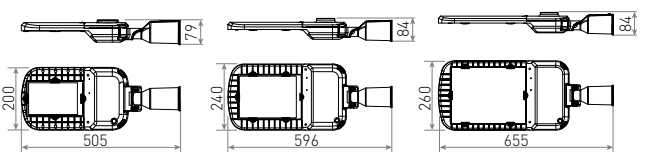
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]



30W / 50W / 60W
CTN DIM
L550, W255, H135

80W / 100W / 120W
CTN DIM
L640, W295, H138

150W / 180W / 200W
CTN DIM
L700, W315, H138



SL02

One-Piece Die-Cast Housing. Cost-effective.

A heavy-duty, straightforward 140 lm/W street light with an adjustable aiming bracket, designed for courtyards, parking lots, and rural roads.

** Not every outdoor project has the budget for tunable power or smart city integrations. For basic lighting jobs like rural pathways, private factory yards, and outdoor parking lots, buyers simply need a tough, low-cost fixture that won't leak water or break after one winter.

** The SL02 is our essential baseline model. We stripped away the complex electronics and focused purely on structural durability. It features a solid, one-piece die-cast aluminum housing with built-in cooling fins to manage heat safely. Delivering a stable 140 lm/W and equipped with a basic rotatable bracket (-15° to 15°) for easy aiming, the SL02 offers "install-and-forget" reliability at a highly competitive price point.

190
lm/W

30-250
Power Wattage

IP66
Ingress
Protection

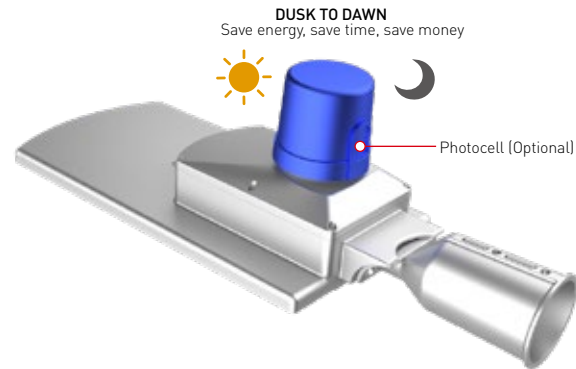
IK10
Mech.impact
Protection



NEMA +
Photocell

Fetures

- One-piece die-cast aluminum body — seamless, weather-resistant
- Adjustable bracket ($\pm 15^\circ$) — precise light aiming
- Integrated cooling fins — efficient LED heat dissipation
- 140 lm/W output — reliable brightness with Lumileds/Sanan chips
- Optional photocell — automatic dusk-to-dawn control
- UV-resistant PC lens (Type III) — no yellowing under sunlight
- IK10 impact rating — vandal- and shock-resistant
- IP66 rated — dust-tight and protected against powerful water jets (-30°C to $+50^\circ\text{C}$)



Solid One-Piece Construction

For entry-level budget projects, structural integrity matters more than fancy features. The SL02 uses a one-piece die-cast aluminum housing instead of a multi-part bolted design. The heat-dissipating fins are molded directly into the back of the fixture, ensuring strong structural rigidity and efficient passive cooling. This simple, unbroken shell significantly reduces the risk of water ingress, meaning the light will survive heavy storms and harsh weather year after year.

Easy Aiming and Automatic Control

Getting the light angle right on country roads or parking lots is critical for visibility. The SL02 makes this simple with an integrated rotating bracket that can adjust from -15° to $+15^\circ$ during installation. Additionally, it supports a basic photocell sensor. Without needing any expensive control panels, the light automatically turns on when it gets dark and shuts off when the sun comes up, providing an effortless energy-saving solution.



TR Bracket: Wall-mounted



Spigot: For both horizontal
and vertical pole installation



Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
SL02-30	4,200lm	30W	140lm/W	1.1kg	1.3kg
SL02-60	8,400lm	60W	140lm/W	1.1kg	1.3kg
SL02-100	14,000lm	100W	140lm/W	2.5kg	2.8kg

Beam Angle

Symmetric: T3



T3

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80, 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection: 10kV
Electrical Protection: Class I
Control: 0-10V Dimming, Daylight Sensor

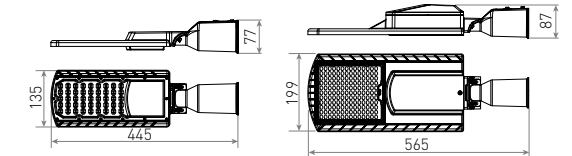
Lifespan and Warranty

Operating Temperature: -30°C to $+50^\circ\text{C}$
Life Time of LED @Ta $+25^\circ\text{C}$: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]



30W / 60W
CTN DIM
L455, W145, H80

100W
CTN DIM
L590, W210, H90



AL03

170 lm/W Peak Efficacy. Smart Control Ready.

A high-performance outdoor area light featuring Lumileds 5050 LEDs, IK10 impact resistance, and plug-and-play smart sensor integration.

** Large-scale outdoor facilities such as airports and commercial parking lots consume massive amounts of electricity. Facility managers need to maximize energy savings without undergoing complex rewiring for automated controls, while also ensuring the fixtures survive severe weather and voltage spikes.

** The AL03 series provides a highly efficient and adaptable solution. Driven by oversized Lumileds 5050 chips, it delivers an exceptional system efficacy of up to 170 lm/W. Structurally, the die-cast aluminum housing is fortified to IK10 standards and includes a built-in 10KV Surge Protection Device (SPD). For energy automation, the AL03 features a top-mounted receptacle compatible with dusk-to-dawn photocells, microwave motion sensors, and Bluetooth controls, allowing contractors to deploy smart-lighting capabilities effortlessly.

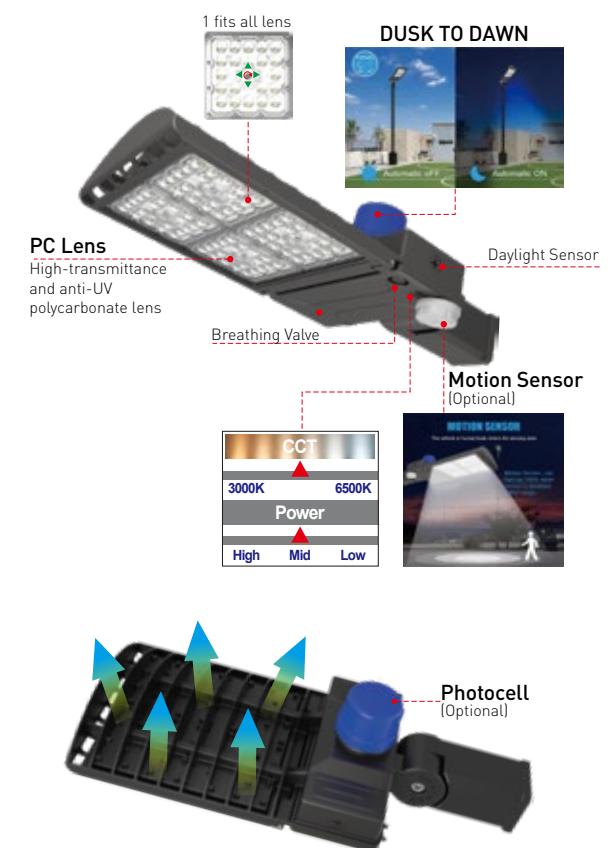
170	100-400	IP65	IK10
lm/W	Power Wattage	Ingress Protection	Mech.impact Protection

Fetures

- 160–170 lm/W efficacy: High-performance Lumileds 5050 LEDs deliver maximum brightness with minimal energy use.
- IK10 impact resistance + IP65 protection: Die-cast aluminum housing withstands heavy impacts, dust, and rain.
- 10 kV surge protection: Built-in SPD guards against lightning and grid surges.
- Smart controls: Works with photocells, microwave sensors, shorting caps, and 0–10 V / PWM dimming for dusk-to-dawn and occupancy control.
- Optics (Types II–V): Polycarbonate lenses tailor light distribution to parking lots, roads, and perimeters.
- Power range: 100–400 W (up to 68,000 lumens) — suitable for standard and high-mast installations.
- Drivers: Sosen, Lifud, or Fahold — >93% efficiency.
- Mounting options: Slip fitter (SF), trunnion (TR), and pole/wall (PD/R) brackets — fits existing infrastructure.

Plug-and-Play Intelligent Automation

Reducing energy waste during off-peak hours is critical for outdoor lighting ROI. The AL03 simplifies this with an integrated top receptacle. Instead of utilizing expensive centralized control cabinets, installers can simply twist in a photocell sensor for automatic dusk-to-dawn operation, or add a microwave sensor to dim the fixture when no vehicles are present. If constant illumination is required, a standard shorting cap can be applied.



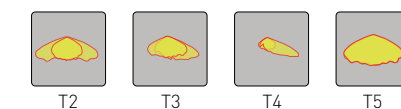
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
AL03-100	16,000lm	100W	170lm/W	4.2kg	4.8kg
	17,000lm		160lm/W		
AL03-120	19,200lm	120W	170lm/W	4.2kg	4.8kg
	20,400lm		160lm/W		
AL03-150	24,000lm	150W	170lm/W	4.3kg	4.9kg
	25,500lm		160lm/W		
AL03-200	32,000lm	200W	170lm/W	4.45kg	5.15kg
	34,000lm		160lm/W		
AL03-240	38,400lm	240W	170lm/W	4.45kg	5.15kg
	40,800lm		160lm/W		
AL03-300	48,000lm	300W	170lm/W	6.35kg	7.1kg
	51,000lm		160lm/W		
AL03-400	64,000lm	400W	170lm/W	6.5kg	7.25kg
	68,000lm		160lm/W		

Beam Angle

Asymmetric: T2, T3, T4, T5



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70Ra/80Ra
SDCM: 6

Operating and Electrical

Input Voltage: AC100-277V
Power Factor: >0.9
Total Harmaonic Distruition: <15%
Surge Protection: 10kV
Electrical Protection: Class I
Control: 0-10V Dimming, PWM, Microwave Sensor, Bluetooth Controls

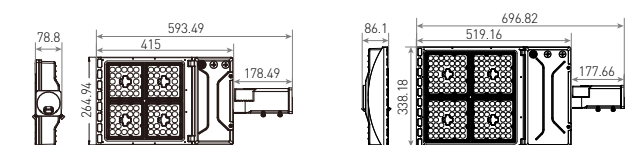
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W / 150W / 200W / 240W
CTN DIM
L630, W305, H125

300W / 400W
CTN DIM
L735, W380, H125



AL02

Solid Die-Cast Construction. Essential Performance.

A highly dependable 135 lm/W area light built with Lumileds 3030 chips and robust ADC12 aluminum for cost-sensitive parking lot projects.

** For routine parking lot upgrades and building perimeter lighting, buyers do not always need complex smart controls or maximum 170 lm/W efficacies. They require a straightforward, budget-friendly fixture that offers guaranteed watertight integrity and reliable foundational brightness.
** The AL02 series is our essential workhorse. It focuses on structural solidity, utilizing a heavy ADC12 aluminum alloy housing to provide IP65 protection and excellent passive cooling. Driven by trusted MeanWell or Sosen power supplies and Lumileds 3030 LEDs, it provides a consistent 135 lm/W output. From 100W up to 300W, the AL02 delivers uncompromised "install-and-forget" reliability at a highly competitive price point.

145

lm/W

100-400

Power Wattage

IP65

Ingress Protection

IK10

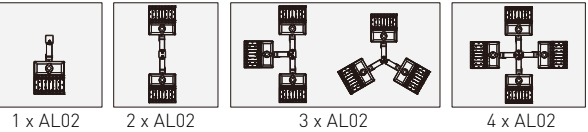
Mech.impact Protection

Fetures

- Dependable 145 lm/W Output: Powered by proven Lumileds 3030 chips to ensure consistent brightness and energy savings for basic outdoor areas.
- Trusted Driver Architecture: Integrates MeanWell or Sosen power supplies to provide stable current and prevent flickering or early burnout.
- ADC12 Die-Cast Body: The solid aluminum alloy housing guarantees long-term durability and resistance against harsh outdoor elements.
- Wide Operating Range: Engineered to operate flawlessly in extreme temperatures ranging from -30°C to +50°C.
- Versatile Photometrics: Offers Type II, Type III, 90x120°, and 30° beam angles to properly illuminate walkways, streets, and open parking zones.
- IP65 Ingress Protection: Fully sealed to prevent dust accumulation and moisture penetration during heavy rainstorms.
- Multiple Mounting Options: Equipped with versatile brackets (SF, PD, TR) allowing installers to mount on round poles, square poles, or flat walls.
- Standardized Compliance: Backed by Intertek, UL, DLC, and CE certifications to ensure safe and compliant installation.



Combination installation



Mounting Bracket Optional



Specifications

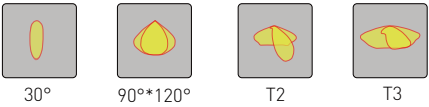
Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
AL02-100	14,500lm	100W	145lm/W	4.3kg	4.0kg
AL02-150	21,750lm	150W	145lm/W	4.8kg	5.6kg
AL02-240	34,800lm	240W	145lm/W	6.4kg	7.5kg
AL02-300	43,500lm	300W	145lm/W	7.1kg	8.2kg
AL03-400	58,000lm	400W	145lm/W	11.5kg	13.0kg

Beam Angle

Symmetric: 30°

Asymmetric: 90°*120°, T2, T3



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K

CRI: >70Ra(80Ra optional)

SDCM: 6

Operating and Electrical

Input Voltage: AC100-277V

Power Factor: >0.95

Total Harmaonic Distrution: <15%

Surge Protection: 10kV

Electrical Protection: Class I

Control: 0-10V Dimming, PWM, Microwave Sensor, Photocell

Lifespan and Warranty

Operating Temperature: -30°C to +50°C

Life Time of LED @Ta+25°C: 50,000Hours

Warranty: 5 years

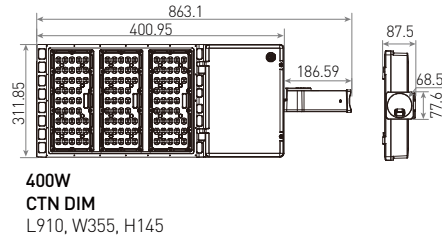
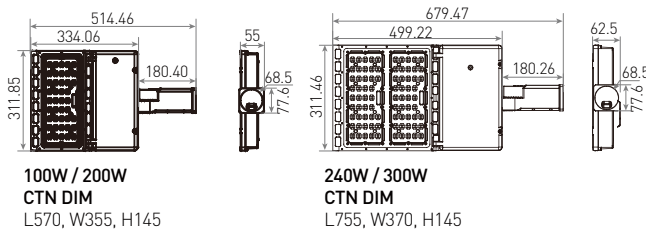
Mechanical and Housing

Optical Cover Type: Polycarbonate lens

Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated

Luminaire Colour: Black

Dimensions[mm]



AL01

150 lm/W Area Light. Philips & MeanWell Powered.

Available from 100W to 400W, built strictly with an ADC12 die-cast housing and verified components for stable outdoor operation.

** In public infrastructure and highway perimeter projects, the cost of equipment failure goes far beyond the replacement fixture—it involves road closures, bucket trucks, and extensive labor. Contractors cannot risk using unverified electrical components.

** The AL01 series eliminates electrical uncertainty by utilizing a strictly audited supply chain. It pairs authentic Philips LED arrays with globally certified MeanWell or Sosen drivers, delivering a highly stable 135-150 lm/W luminous efficacy. The robust ADC12 aluminum alloy housing provides massive thermal capacity, keeping junction temperatures below 75°C even during prolonged high-output operation. Backed by UL, DLC, and CE certifications, the AL01 is a fail-safe choice for large-scale outdoor deployments.

150
lm/W

150-400
Power Wattage

IP65
Ingress
Protection

IK10
Mech.impact
Protection

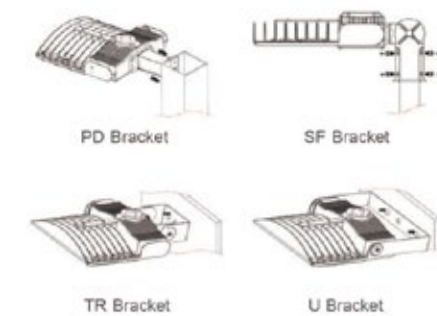
Fetures

- Authentic Philips LEDs: Employs industry-leading Philips chips to deliver high-lumen output with minimal color shift over time.
- Premium Power Drivers: Exclusively powered by MeanWell or Sosen drivers (AC100-277V) to eliminate premature electrical failures.
- 150 lm/W Peak Efficiency: Achieves high energy conversion rates, delivering up to 54,000 lumens in the 400W configuration.
- ADC12 Thermal Housing: The heavy-duty ADC12 aluminum alloy chassis acts as a massive heat sink, effectively protecting internal electronics.
- Type III / 90x120° Optics: Precision beam angles designed specifically for broad area coverage and perimeter illumination.
- Global Safety Certifications: Fully certified with UL, DLC, CE, FC, and RoHS to meet the strictest regional compliance standards.
- High Power Factor Stability: Maintains a Power Factor of >0.90 and THD <15% for clean and stable electrical integration.
- Robust Bracket Ecosystem: Offers Slip Fitter (SF), Square Pole (PD), Trunnion (TR), and U-brackets for seamless installation flexibility.



Universal Bracket Ecosystem for Retrofit Projects

In large-scale outdoor retrofits, contractors frequently encounter a mix of round poles, square poles, and flat wall surfaces across a single site. Sourcing specific fixtures for each mounting type delays project execution. The AL01 is engineered with a comprehensive, interchangeable bracket ecosystem. Installers can seamlessly equip the same optical head with a Slip Fitter (SF), Square Pole Mount (PD), Trunnion Bracket (TR), or U-Bracket. This universal adaptability empowers distributors to hold one standard fixture body while easily accommodating any existing on-site infrastructure, drastically improving deployment speed.



Specifications

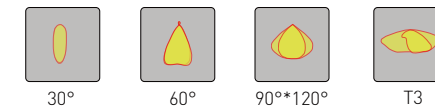
AL

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
AL01-100	15,000lm	100W	150lm/W	6.2kg	6.7kg
AL01-150	21,000lm	150W	140lm/W	6.2kg	6.7kg
AL01-200	28,000lm	200W	140lm/W	6.45kg	7.10kg
AL01-300	42,000lm	300W	140lm/W	10.8kg	11.6kg
AL01-400	54,000lm	400W	135lm/W	11.2kg	12.0kg

Beam Angle

Symmetric: 30°, 60°
Asymmetric: 90°*120°, T3



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70Ra(80Ra optional)
SDCM: 6

Operating and Electrical

Input Voltage: AC100-277V
Power Factor: >0.95
Total Harmaonic Distrution: <15%
Surge Protection:10kV
Electrical Protection: Class I
Control: 0-10V Dimming, DALI 2,PMW, Microwave Sensor, Photocell

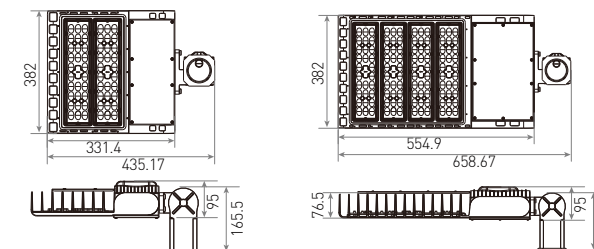
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]



100W /150W / 200W
CTN DIM
L570, W370, H145

300W / 400W
CTN DIM
L795, W370, H145



AL05

3-in-1 Tunable Post Top. Urban Landscape Reliability.

An IP66-rated, die-cast garden luminaire featuring field-adjustable output, high surge protection, and NEMA/Zhaga integration for public pathways.

*** Public landscape lighting often forces a compromise between aesthetic design and industrial durability. Standard decorative fixtures fail under severe weather or grid fluctuations, and maintaining fixed wattages for various park zones complicates municipal procurement.
*** The AL05 integrates heavy-duty engineering into a timeless garden profile. Equipped with an extraordinary 10/20KV surge protection rating and IK08 impact resistance, it survives harsh public environments and electrical spikes. The built-in 3-power and 3-CCT toggle switch simplifies inventory, while top-mounted NEMA and Zhaga receptacles allow for seamless smart city upgrades.

140
lm/W

30-100
High-Wattage

3-in-1
CCT Tunable

3-in-1
Wattage Tunable

IP66
Ingress
Protection

IK08
Mech.impact
Protection

Fetures

- 3-Power & 3-CCT Tunable: A built-in toggle switch allows installers to select wattage and color temperature on-site, drastically reducing SKU complexity.
- 10/20KV Surge Protection: Unusually high surge defense for a landscape fixture, protecting the driver against severe municipal grid fluctuations.
- Anti-UV Polycarbonate Lens: High-transmittance PC lens resists yellowing from prolonged sun exposure, ensuring consistent optical clarity.
- Smart Control Interfaces: Available with NEMA sockets or Zhaga receptacles to easily integrate photocells or motion sensors.
- 140 lm/W System Efficacy: Powered by reliable Lumileds LEDs to deliver high brightness while saving energy costs for large public gardens.
- Rugged Die-Cast Housing: The powder-coated aluminum chassis provides excellent heat dissipation and resists outdoor corrosion.
- Diverse Photometric Options: Supports symmetrical and asymmetrical beam angles [25° to 120°, plus T2/T3/T4] for pathways and open squares.
- IP66 & IK08 Certified: Fully sealed against heavy rain and protected against vandalism or mechanical impacts in public spaces.



CCT/Power toggle switch

PC Lens High-transmittance and anti-UV Polycarbonate lens



NEMA Socket

Photocell controller

Shorting cap

ZHAGA Receptacles

Specifications

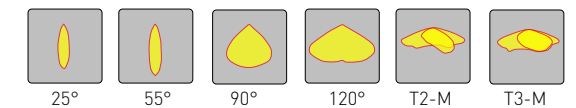
AL

Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight
AL05-30	4,200lm	30W(100%)	140lm/W	4.5kg
	3,150lm	22.5W(75%)	140lm/W	
	2,100lm	15W(50%)	140lm/W	
AL05-50	7,000lm	50W(100%)	140lm/W	4.5kg
	5,250lm	37.5W(75%)	140lm/W	
	3,500lm	25W(50%)	140lm/W	
AL05-100	14,000lm	100W(100%)	140lm/W	4.5kg
	10,500lm	75W(75%)	140lm/W	
	7,000lm	50W(50%)	140lm/W	

Beam Angle

Symmetric: 25°, 55°, 90°, 120°
Asymmetric: T2-M, T3-M, T4-M



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: >70, 80 or 90 optional
SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC
Power Factor: >0.95
Total Harmonic Distortion: <15%
Surge Protection: 10kV OR 20kV external SPD optional
Electrical Protection: Class I
Control: 0-10V Dimming

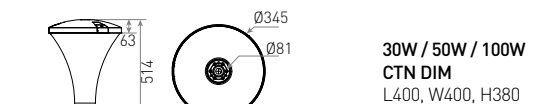
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Polycarbonate lens
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Gray

Dimensions[mm]





WP01

Asymmetrical Distribution. Neighbor-Friendly Security.

A die-cast wall pack delivering 130 lm/W with precise forward-throw optics to eliminate glare and light pollution.

*** Traditional wall packs distribute light outward in all directions, causing severe glare, light trespass complaints from neighboring properties, and inefficient ground illumination. Many municipalities now strictly prohibit these non-cutoff designs.
*** The WP01 series is engineered with a specialized asymmetrical optical system. This design pushes the 130 lm/W output strictly downward and forward, maximizing light utilization on pathways while preventing backward light trespass. Housed in a corrosion-resistant die-cast aluminum shell with an IK10 impact rating, it provides durable, neighbor-friendly perimeter security.

130
lm/W

60-120
High-Wattage

IP65 / IP66
Ingress Protection

IK08
Mech.impact
Protection

Fetures

- Asymmetrical Light Distribution: Precision optics push light strictly to the target area, ensuring zero light trespass and compliance with dark-sky ordinances.
- Neighbor-Friendly Design: Eliminates horizontal glare, ensuring safety for pedestrians while preventing intrusive light from entering nearby windows.
- 130 lm/W Efficient Output: Driven by high-quality Samsung LEDs to deliver up to 19,500 lumens, maximizing energy utilization.
- Die-Cast Aluminum: The corrosion-resistant housing protects internal components from harsh sun, rain, and snow.
- IK10 Impact Rating: The rugged exterior and optional PC or glass lens easily withstand accidental impacts and vandalism.
- Weatherproof Sealing: Built to rigorous IP65/IP66 standards, ensuring internal electronics remain completely dry during severe storms.
- Broad Power Coverage: Available in configurations from 60W up to 120W to secure varying perimeter heights and building layouts.
- Wide Temperature Resilience: Engineered for stable operation in extreme ambient temperatures ranging from -30°C to +50°C.



Corrosion-resistant aluminum alloy housing



Asymmetrical light distribution, higher light utilization.



No light trespass, neighbor-friendly.

Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
WP01-60	7,800lm	60W	130lm/W	2.3kg	2.8kg
WP01-80	10,400lm	80W	130lm/W	2.3kg	2.8kg
WP01-100	13,000lm	100W	130lm/W	2.3kg	2.8kg
WP01-120	15,600lm	120W	130lm/W	2.3kg	2.8kg

Beam Angle

Symmetric: 110°
Asymmetric: T2-M, T3-M, T4-M

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: 70, 80
SDCM: 6

Operating and Electrical

Input Voltage: AC100-277V
Power Factor: >0.90
Total Harmaonic Distrution: <15%

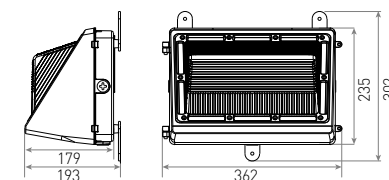
Lifespan and Warranty

Operating Temperature: -30°C to +50°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

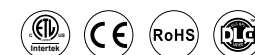
Mechanical and Housing

Optical Cover Type: Glass
Structure & Material & Finish: Die-cast heat sink, ADC12, Powder-Coated
Luminaire Colour: Dark Bronze

Dimensions[mm]



CTN DIM
L382, W280, H242



GENERAL FLOOD LIGHTING

For airports, ports, container yards, logistics hubs, industrial sites, and other large outdoor areas.

ZC High-Mast & Large-Area Lighting is built for airports, ports, container yards, logistics hubs, large parking areas, industrial sites, and other wide-area applications requiring high-output and long-distance illumination. The products are available with multiple beam distributions, corrosion-resistant finishes, robust structural design, and options for precise aiming and control. They are suitable for projects where mounting height, wind load, maintenance access, and lighting uniformity are key considerations.



Product Range

High-Mast Lights / High-Output Floodlights / Port & Airport Lighting / Large-Area Site Lighting

Key Requirements

High Output | Long-Distance Beam | Wind Load | Corrosion Resistance | Lighting Uniformity

05



FL06

3-in-1 Tuning. 270° Mounting Flexibility.

A highly adaptable 150 lm/W LED flood light featuring tunable power, selectable CCT, and an ultra-flexible bracket for commercial and architectural lighting.

*** Distributors often struggle with high inventory costs from stocking specific wattages and color temperatures for different architectural projects. Installers face delays when fixed brackets cannot accommodate complex wall or ceiling angles on site.
*** The FL06 Series resolves both inventory and installation bottlenecks. It features a built-in 3-in-1 power and CCT adjustment switch, allowing a single unit to fulfill multiple lighting specifications. The fixture is equipped with a 270° rotatable bracket, ensuring precise photometric targeting whether mounted on the ground, wall, or ceiling. Delivering a highly efficient 150 lm/W, the FL06 provides bright, reliable illumination for courtyards, billboards, and building perimeters.

- 150

lm/W
- 30-200

High-Wattage
- 3-in-1

CCT Adjustable
- 3-in-1

Power Adjustable
- IP65

Ingress Protection
- IK08

Mech.impact Protection



Fetures

- 3-in-1 Output Tuning: Adjustable power switches let one fixture meet diverse project needs—reducing distributor SKU count.
- 270° Rotatable Bracket: Ultra-flexible arm enables steep-angle aiming for facades and billboards.
- 150 lm/W Efficiency: Premium Lumileds or Samsung LEDs deliver bright, uniform light with minimal energy use.
- Die-Cast Aluminum Body: Robust housing ensures superior heat dissipation and stable junction temperatures.
- Selectable CCT: Onboard switch for on-site selection of 3000K, 4000K, 5000K, 5700K, or 6500K.
- IP65 Rated: Fully sealed against rain and dust—built for reliable outdoor operation.
- Tempered Glass Lens: Protects the LED array from environmental damage while preserving high optical transmittance.
- Broad Output Range: 30W-200W (30,000 lm) options—from small parks to large building exteriors.



Inventory Optimization via 3-in-1 Tuning

Stocking multiple specific wattages and color temperatures for diverse architectural projects ties up significant distributor capital. The FL06 acts as a universal inventory solution. Equipped with built-in 3-in-1 power adjustment and stepless CCT tuning, a single fixture can be configured on-site to meet various brightness and warmth requirements. This flexibility allows distributors and contractors to minimize SKU complexity and drastically reduce warehousing costs.

Breather Valve Anti-Condensation Technology

Outdoor fixtures exposed to dramatic day-to-night temperature swings often suffer from internal condensation, which fogs the lens and damages circuitry. The FL06 neutralizes this environmental threat with an integrated breather valve. This component actively equalizes internal and external air pressure, allowing moisture to escape while maintaining a strict IP65 waterproof seal. This guarantees clear, fog-free optics year-round for building facades and park landscapes.

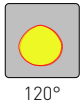
Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
FL06-30	4,500lm	30W	150lm/W	1.1kg	1.3kg
FL06-50	7,500lm	50W	150lm/W	1.5kg	1.8kg
FL06-100	15,000lm	100W	150lm/W	1.8kg	2.1kg
FL06-150	22,500lm	150W	150lm/W	2.0kg	2.3kg
FL06-200	30,000lm	200W	150lm/W	2.2kg	2.5kg

Beam Angle

Symmetric: 120°



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: 70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: 220-240VAC
Power Factor: >0.93
Total Harmaonic Distrution: <15%
Surge Protection: 4kV
Electrical Protection: Class I
Control: /

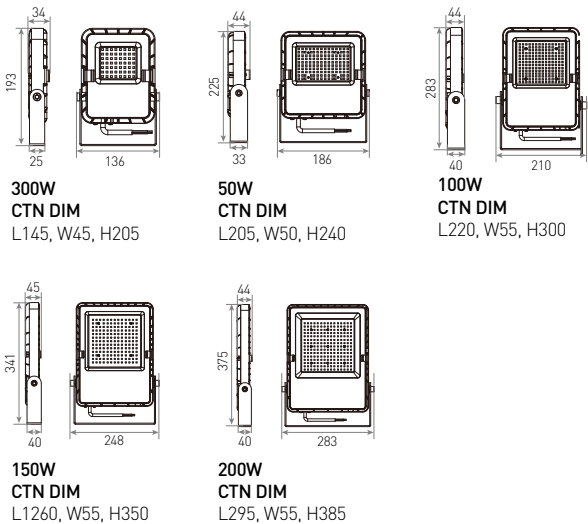
Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Tempered glass
Structure & Material & Finish: Die-cast aluminum heat sink, ADC12, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]





FL04

Integrated DOB Design. Essential Reliability.

An ultra-slim, 120 lm/W entry-level flood light utilizing Driver-On-Board technology for straightforward, budget-friendly outdoor deployment.

*** Basic outdoor illumination—such as small billboards, community parks, and residential perimeters—does not require complex optics or heavy external power supplies. However, cheap market alternatives often compromise on structural integrity, leading to internal water ingress and early electrical failure in harsh weather.

*** The FL04 is engineered as our economical baseline without sacrificing weather resistance. By adopting Driver-on-Board (DOB) technology, the constant-current circuitry is embedded directly onto the LED board (AC220-240V), completely eliminating the need for a separate driver box. This streamlined structural design allows for an ultra-slim ADC12 die-cast aluminum housing that significantly reduces shipping volumes and simplifies ladder-based installation. Delivering a solid 120 lm/W output with a fully sealed IP65 rating, the FL04 provides uncompromised foundational lighting at a highly competitive price point.

- 120

lm/W
- 10-100

High-Wattage
- IP65

Ingress Protection
- IK08

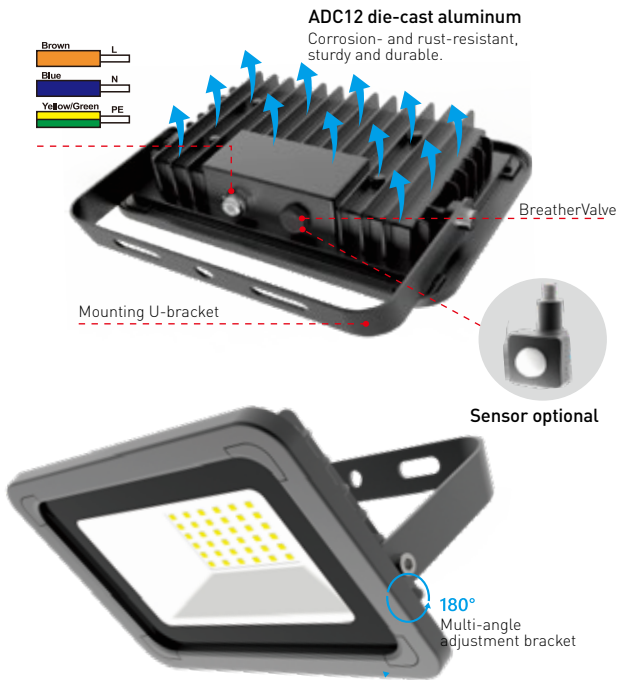
Mech.impact Protection

Fetures

- Driver-On-Board (DOB): Eliminates external drivers—reducing fixture weight, component count, and cost.
- Ultra-Slim Die-Cast Body: ADC12 aluminum housing delivers superior heat dissipation and low wind load in compact form.
- 120 lm/W Output: High-brightness, evenly distributed LEDs replace halogen with reliable energy savings.
- Optional PIR Sensor: Enables smart security lighting—auto-activates on motion detection.
- IP65 Rated: Fully sealed against rain and dust for dependable 30,000-hour outdoor operation.
- 180° Adjustable Bracket: Standard U-bracket supports ceiling, wall, or horizontal mounting.
- Integrated 4 kV Surge Protection: Safeguards DOB circuitry against common 220–240 V line surges.
- 120° Wide Beam: Symmetrical distribution ensures broad, uniform coverage—for courtyards and billboards.

Streamlined Efficiency with DOB Design

For basic illumination tasks like residential courtyards or small billboards, bulky traditional floodlights represent unnecessary cost and weight. The FL04 is engineered around Driver-on-Board (DOB) technology. By integrating the constant-current power components directly onto the LED circuit board, it completely eliminates the need for an external driver box. This results in an ultra-slim, lightweight die-cast aluminum profile that reduces shipping volumes and makes ladder-based installation exceptionally easy for contractors.



Specifications

Order Matrix

Model	Lumen	Power	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
FL04-10	1,200lm	10W	120lm/W	0.25kg	0.26kg
FL04-20	2,400lm	20W	120lm/W	0.32kg	0.33kg
FL04-30	3,600lm	30W	120lm/W	0.50kg	0.52kg
FL04-50	6,000lm	50W	120lm/W	0.88kg	0.90kg
FL04-80	9,600lm	80W	120lm/W	1.65kg	1.7kg
FL04-100	12,000lm	100W	120lm/W	1.65kg	1.7kg

Beam Angle

Symmetric: 120°



120°

Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K
CRI: 70, 80 optional
SDCM: 6

Operating and Electrical

Input Voltage: AC220-240V
Power Factor: >0.93
Total Harmaonic Distrution: <15%
Surge Protection: 4kV
Electrical Protection: Class I
Control: Sensor

Lifespan and Warranty

Operating Temperature: -30°C to +45°C
Life Time of LED @Ta+25°C: 50,000Hours
Warranty: 5 years

Mechanical and Housing

Optical Cover Type: Tempered glass
Structure & Material & Finish: Die-cast aluminum heat sink, AL6063, Powder-Coated
Luminaire Colour: Black

Dimensions[mm]

 29, 115.42, 108.28	 32.5, 150.02, 135.36	 33, 180.37, 171.25
10W CTN DIM L120, W35, H135	20W CTN DIM L155, W35, H150	30W CTN DIM L185, W35, H185
 43, 233.87, 206.88	 57, 317.87, 279.73	 57, 317.87, 279.73
50W CTN DIM L240, W50, H220	80W CTN DIM L325, W60, H250	100W CTN DIM L325, W60, H250





FL03

Power & CCT Tunable. Exceptional Value.

A highly cost-effective LED flood light featuring precise angle adjustment, dual lens protection, and smart sensor integration for landscapes and training courts.

*** Illuminating building facades, landscape elements, and small-to-medium training courts often requires varying brightness levels, color temperatures, and precise aiming. Managing different fixture models for these diverse areas leads to inflated budgets and complex inventory.
*** The FL03 series provides a highly cost-effective, all-in-one solution. It integrates tunable power and CCT switches to allow exact on-site customization. Built with a high-thermal-conductivity die-cast aluminum housing, it features a robust PC plus tempered glass dual-protection lens. Combined with a precise scale bracket knob for exact aiming and multiple smart sensor interfaces, the FL03 delivers versatile, professional illumination for diverse outdoor applications.

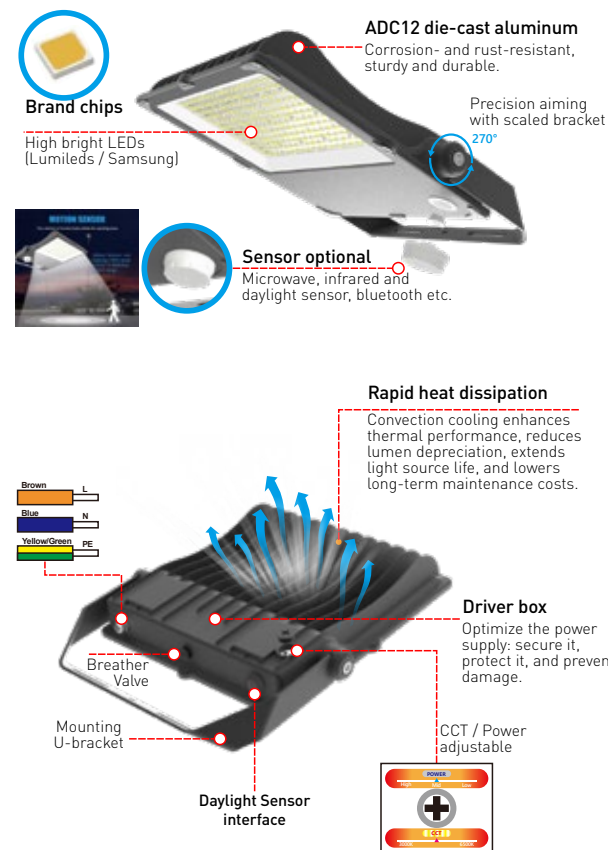
- 140
lm/W
- 50-400
High-Wattage
- 3-in-1
CCT Adjustable
- 3-in-1
Power Adjustable
- IP65
Ingress
Protection
- IK08
Mech.impact
Protection

Fetures

- Power & CCT Switchable: Field-adjustable controls allow installers to select the optimal wattage and color temperature on-site, streamlining project inventory.
- Precise Scale Bracket: Equipped with an exact scale knob on the mounting bracket, enabling installers to lock in precise and repeatable aiming angles.
- Dual Lens Protection: Utilizes a high-transmittance PC lens shielded by a tempered glass cover, providing double protection against impact and environmental wear.
- High-Conductivity Housing: Constructed from die-cast aluminum with efficient convection cooling to maintain safe junction temperatures and ensure longevity.
- Smart Sensor Interfaces: Pre-configured with multiple interfaces to easily accommodate microwave, infrared, or daylight sensors for intelligent energy management.
- Cost-Effective Versatility: Balances professional-grade photometric performance with an economical price point, ideal for budget-conscious commercial projects.
- Diverse Beam Angles: Available in multiple optical distributions (30°, 60°, 90°, 120°, T2, T3) to correctly illuminate facades, courts, and pathways.
- IP66 Ingress Protection: Fully sealed against dust and high-pressure water jets, ensuring safe operation in exposed outdoor landscapes.

Dual Lens Protection System

FL03 fixtures feature dual-lens protection: a high-transmittance PC lens backed by tempered glass—resisting impact, dust, and UV yellowing to maintain optical clarity and stable light output in high-traffic outdoor areas.



Specifications

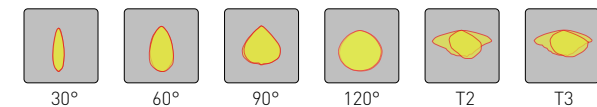
Order Matrix

Model	Lumen	Power (Tunable)	Efficacy (@Ra70,5000K)	Net Weight	Gross Weight
FL03-50	7,000lm	50W	140lm/W	2.4kg	2.8kg
FL03-100	14,000lm	100W	140lm/W	4.0kg	4.5kg
FL03-150	21,000lm	150W	140lm/W	4.15kg	4.7kg
FL03-200	28,000lm	200W	140lm/W	4.9kg	5.4kg
FL03-240	33,600lm	240W	140lm/W	4.9kg	5.4kg
FL03-300	42,000lm	300W	140lm/W	7.2.5kg	7.8kg
FL03-400	56,000lm	400W	140lm/W	7.2kg	7.8kg

Beam Angle

Symmetric: 30°,60°,90°,120°

Asymmetric: T2, T3



Light Technical

CCT: 3000K / 4000K / 5000K / 5700K / 6500K

CRI: >70Ra(80Ra optional)

SDCM: 6

Operating and Electrical

Input Voltage: 100-277VAC / 220-240VAC

Power Factor: >0.95

Total Harmaonic Distruition: <15%

Surge Protection: 6kV,10kV optional

Electrical Protection: Class I

Control: Daylight Sensor, Microwave Sensor

Lifespan and Warranty

Operating Temperature: -30°C to +45°C

Life Time of LED @Ta+25°C: 50,000Hours

Warranty: 5 years

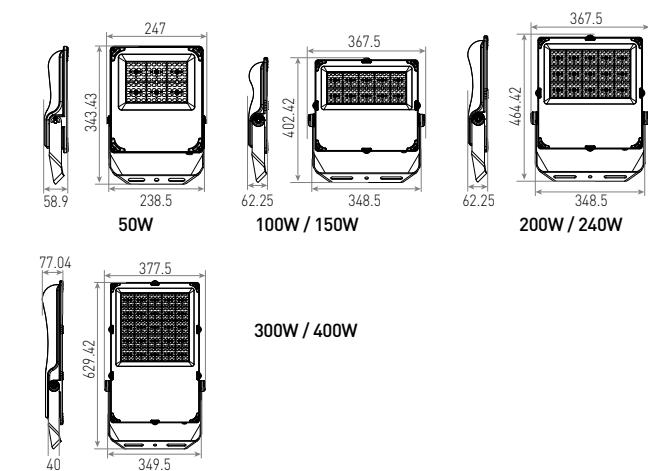
Mechanical and Housing

Optical Cover Type: Polycarbonate lens + Tempered glass

Structure & Material & Finish: Die-cast aluminum heat sink, ADC12, Powder-Coated

Luminaire Colour: Black

Dimensions[mm]



SELECTED PROJECT REFERENCES

Real project references across sports fields, stadiums, industrial sites, and large outdoor areas.

ZC lighting products have been applied in a range of outdoor and industrial projects, including stadiums, sports fields, training grounds, large-area sites, and public facilities. These project references show how different product series are used in real applications, with attention to lighting performance, installation conditions, project requirements, and long-term operation.



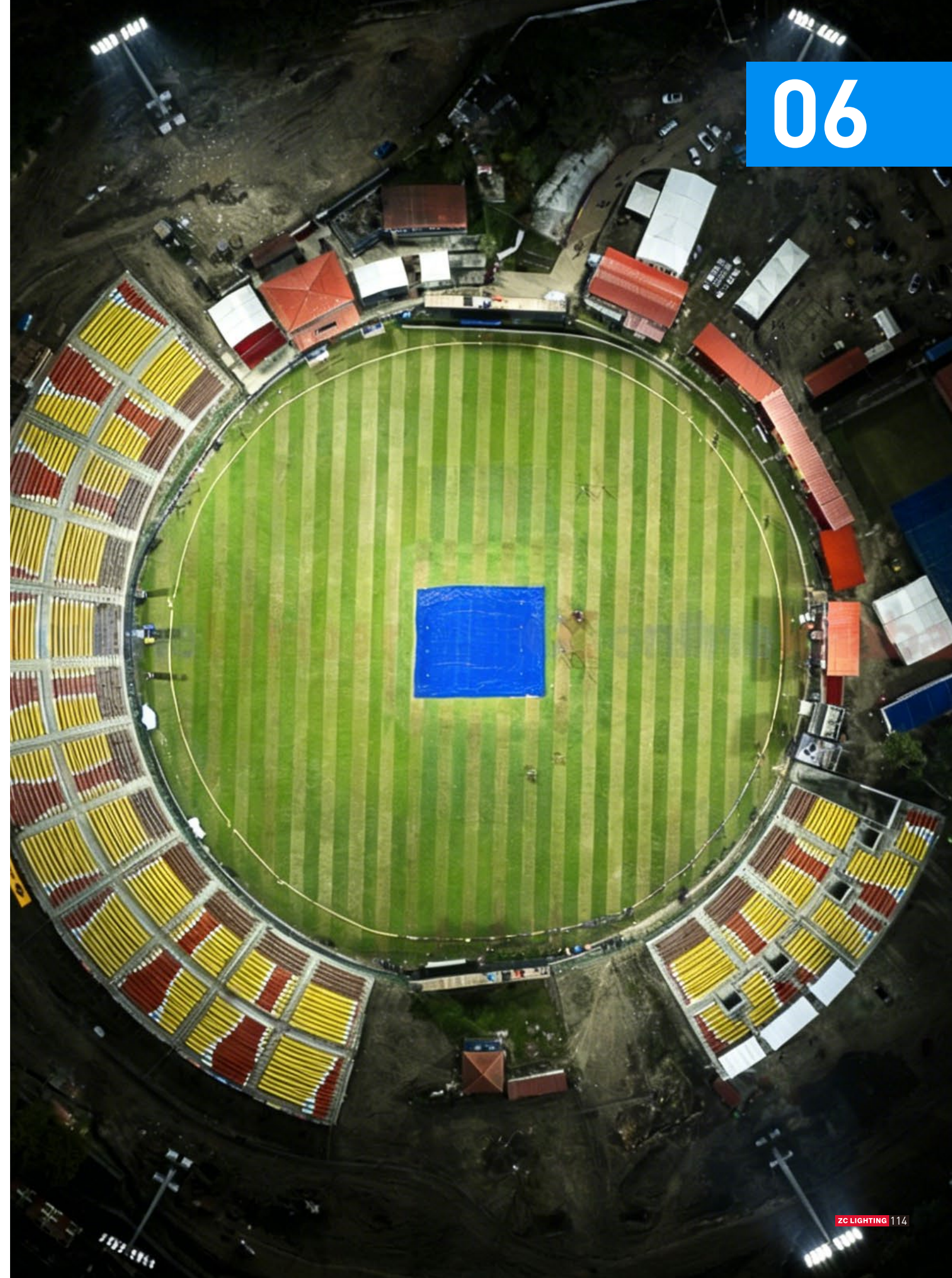
Project Scope

Stadiums / Sports Fields / Training Grounds / Industrial Sites / Large Outdoor Areas / Public Facilities

Key Focus

Real Applications | Project Experience | Lighting Performance | Installation Adaptability | Long-Term Operation

06





Cricket Ground in Nepal



Model: FL09-1650W
QTY : 430Pcs
Beam Angle: 20°



Football Court, Dubai



Model: FL15-500W
QTY : 268Pcs
Beam Angle: 20°



Football Court, Ukraine



Model: FL01-300W
QTY : 46Pcs



Tennis Court, Spain



Model: PL08-300W
QTY : /

