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PL08

Tennis Court Lighting Solution

Uniformity • Glare Control •
Spill-Light Management
Acceptance-Ready Deliverables

150-165LM/W

5 YEARS
Warranty

IK08

IP66

LIFESPAN
50,000H

-30°C to +50°C
(-22°F to +122°F)

Efficient Heat Dissipation

Easy Installation



240W / 320W
400W / 500W

Features

The variety of beam angles: 25°/45°/60°/90°/80 *152/
80*145/120*148/P60
Die-cast aluminum using with UV resistant powder coat finish.
IP66, waterproof.
Long life span, 5 years Warranty.

Typical Issues in Existing Tennis Lighting

1.Market Momentum

Tennis is seeing higher-frequency, longer-hour usage worldwide. Night operation and media needs make high-quality lighting a decisive upgrade.

2.Typical Upgrade Triggers

Legacy HID/early LEDs often cause restart delays, glare, poor uniformity, spill-light complaints, and costly downtime.

3.Reference Framework

We design by "class targets + 4 dimensions": illuminance, uniformity, glare, and spill/uplight.
LTA provides clear reference targets for PPA/TPA.

4.Our Methodology

Target class > Optics selection > Glare/spill strategy > Simulation report > Aiming & acceptance.

We deliver an acceptance-ready result, not just fixtures.





PL08 Padel light

PL08 is tennis-focused: 150–165 lm/W, 240–500W, multiple optics (incl. Symmetric/asymmetric) for single or multi-court layouts.
Optional visors strengthen spill/backlight control; PC+glass protection; IP66/IK08; top mount and ±180° bracket support retrofit upgrades.



Key Differentiators

Light Quality & Control

Court-Optimized Optics (Symmetric / Asymmetric)

Multiple optics help match court size, pole layout and mounting height-reducing redesign iterations.

Optional Visors for Spill / Backlight Control

Front / back visor options support projects with stricter environmental constraints.



Without Visor



With Front & Back Visor



Reliability & Durability

Proven Die-Cast Thermal Platform

Die-cast heat sink supports stable lifetime performance in long-hour operation.

PC + Glass Dual Protection

Dual-layer protection improves durability for harsh outdoor conditions.



Installation & Retrofit

Dual Mounting ±180° Wide Aiming

Top mount and adjustable bracket fit varied poles and aiming needs.

Retrofit-Friendly on Existing Poles

Often upgrades can be done without replacing poles-reducing downtime.

IP66 & IK08 Outdoor Protection

Built for all-weather outdoor use with added impact resistance.

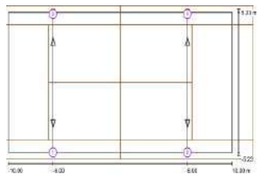
Padel Court
Lighting Design Reference

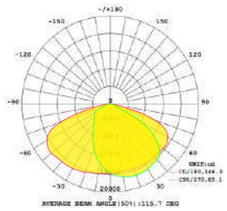
Our wide-beam Floodlight PL08 is engineered to accommodate all standard mast configurations and lighting geometries. It fully complies with all applicable industry standards and regulatory requirements set by leading trade associations.

Product Model	ZC-PL08
LED Brands	Lumileds
Beam Angle	80*145
Efficacy	150-165Lm/W









80*145

4-mast system

Padel Courts:20×10m;Light Mounting Height:6m

		Class I
Number of floodlights per mast		4XPL08 420W 80*145
Horizontal illumiance	Eav lx	502
	Uniformity U0 Emin/Eav	0.79
Total number of floodlights/field		4

Standard

Illumination standards and trade association requirements		Class I	Class II	Class III
Horizontal illumiance-PA	Eav lx	500	200	75
	Uniformity U0 Emin/Eav	0.7	0.6	0.5
Horizontal illumiance-TA	Eav lx	75%PA	75%PA	75%PA
	Uniformity U0 Emin/Eav	75%PA	75%PA	75%PA
GR		55	55	55
Color rendering index Ra		70	60	60

Applications

Neighbour-friendly: asymmetric optics + visors + BUG narrative
Camera-ready: flicker-friendly + scene dimming
Coastal premium: C4 / C5-M upgrades
Multi-court scalability: platform optics reduce SKU pressure
Fast retrofit: flexible mounting + aiming aids + quicker acceptance



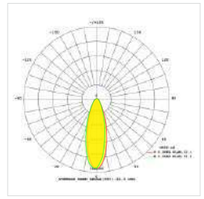


Advanced Options

(Project-based)

Advanced Options (Options / Not Standard Configuration)
Flicker-friendly drivers for camera use
0–10V / DALI dimming & Zoning for training / match scenes
C4 / C5-M anti-corrosion (custom, not standard)
BUG-based reporting items (no fixed rating claim)
Aiming aid tools to reduce aiming deviation

Photometrics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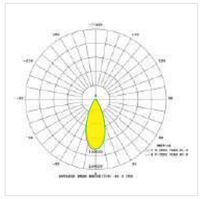
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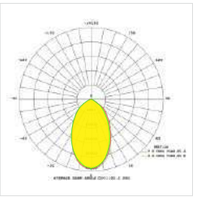
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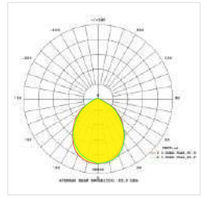
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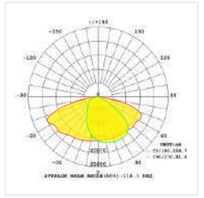
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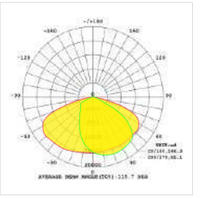
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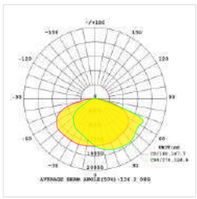
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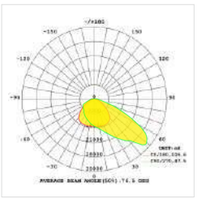
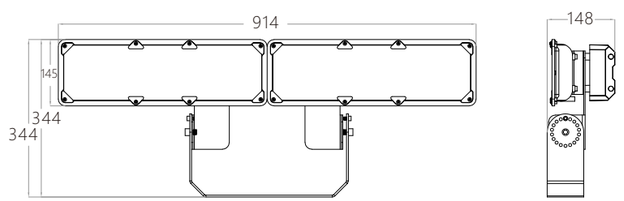

P60

Dimension (MM)



PL08-240W/320W/400W/500W

Electrical Information

Model No.	ZC-PL08-240W	ZC-PL08-320W	ZC-PL08-400W	ZC-PL08-500W
Power Consumption(±5%)	240W	320W	400W	500W
Power Supply	Inventronics/Sosen/Lifud/Moso			
Input Voltage	AC100-277V/AC220-240V			
Power Factor	>0.95			
Surge Protection	10KV OR 20KV external SPD Optional			
Driver Type	Class I			
Control	0-10V Dimming, DMX512, DALI-2			

Optic Information

LED Type	Lumileds2835/3030			
Light Efficacy(@5000K, Ra70)	165LM/W	160LM/W	155LM/W	150LM/W
Luminous Flux (±10%)	39600LM	51200LM	62000LM	75000LM
Correlated Color Temperature	3000K, 4000K, 5000K, 5700K, 6500K			
Color Rendering Index	>70Ra (80Ra or 90Ra optional)			
SDCM	6			
Beam Angle	25°/45°/60°/90°/80*152/80*145/120*148/P60			

Dimensions and Mount

Product Dimension	L914*W145*H148mm (L35.98"*W5.70"*H5.82")
Export Carton Size	L970*W280*H195mm (L38.18"*W11.02"*H7.67")
Luminaire Net Weight	8.5Kg
Gross Weight	10Kg
Mounting Option	U-Bracket Mounting/Pole Mounting
Structrue & Material & Finish	Die-cast aluminum
Lens	PC+Glass
Fixture Color	Black
EPA	1.2ft²
IK Rating	IK08
IP Rating	IP66

Lifespan and Warranty

Operating Temperature	-30℃ to +50℃ (-22°F～+122°F)
Life Time of LED @Ta=25°C	50,000Hours
Warranty	5 Years

Mounting Options



U-Bracket Mounting



Pole Mounting

Upgrade from “bright enough” to “playable, controllable, acceptance-ready.”