

IL450 Series

LED Stadium / Sport Arena Lighting



Advantages of IL450

- Technologically advanced LED stadium lighting
- Available in 100 ~ 220 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 170 lm / W
- Proprietary reflector optics enabling glare-free uniform lighting for all working environments, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Optional wireless smart control system enabling greater savings and flexibility
- Available with tandem mounting option for various high mast applications
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 150,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



Years Warranty



Smart Control



Wet Location



Impact Resistance

Applications

- Sport Arenas
- Gymnasiums
- Tennis Courts
- Volleyball Courts
- High School Fields
- Sport Complexes

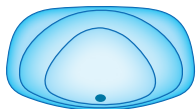
IL450 Series

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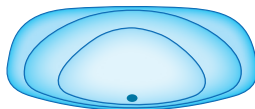
Optic Options

02 - Type II / wall mount & perimeter lighting applications

S - Short

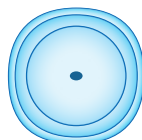


M - Medium



R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

M - Medium



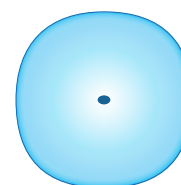
S5 - Type V Square / symmetric for high-bay, aisle, high-mast and flood applications

S - Short



F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications

L - Long



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Mounting Options



Pendant Mounting System

Part Number	Part Description
PDS-IL45	Pendant Mounting Interface / 3/4" Pipe Not Included



Chain Mounting System

Part Number	Part Description
CH4-IL45-45C	4 Link Chain Chandelier System / 18" (45cm) / Chrome Steel
CH4-IL45-90C	4 Link Chain Chandelier System / 36" (90cm) / Chrome Steel



Swivel Mounting System

Part Number	Part Description
SWL-IL45-SS	Variable Angle Swivel Mounting Bracket / Stainless Steel

IL450 Series

LED Stadium / Sport Arena Lighting - 185Watt

Ordering Information

IL45	Wattage	Voltage	Optics	Pitch	CCT	Driver & Control *	Mounting **
	100 = 100W 125 = 125W 150 = 150W 185 = 185W 220 = 220W	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC	02 = Type II R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	S = Short M = Medium L = Long	30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control	PDS = Pendant Mount CH4 = 4 Chain Mount SWL = Swivel Mount

NOTE: Gray is the standard exterior color.

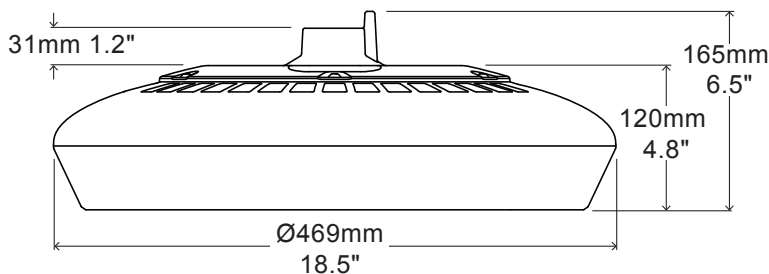
* Smart control & daylight sensor available with ZHAGA standard receptacle module.

** PDS is the standard mounting system, with 1" NPT threaded hole.

Example

Part Number	Part Description
IL45185UV-S5S-50ND-PDS	LED Stadium Light / 185Watt / 100-277VAC / Type V Square / Short Pitch / 5000K Cool White / Non-Dimmable / Pendant Mount

External Dimensions



Packaging Information

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 23 cm 19.7x 19.7 x 9 in	12.5 kg 27.5 lbs



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LED Stadium / Sport Arena Lighting - 185Watt

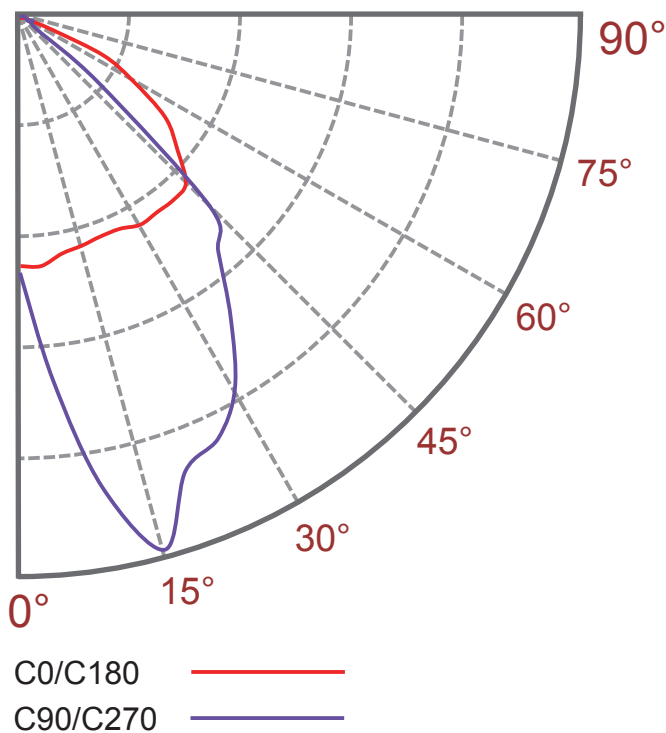
Specification - Type II Short

Fixture Watts	185 W
Lumens (Total)*	25,160 lm
Efficacy *	136 lm / W
Number of LEDs & Driving Current	96@625mA
T _s - Solder Point Temp *	64°C / 147°F
L70 Rating @ T _a 25°C	>160K hours
Operational Temperature (T _a)	-40° ~ 55°C / -40° ~ 131°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* Test data @ T_a: 25°C. All lumen values have ±7% tolerance

NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	10,215	40.6%
0-40	16,102	64.0%
0-60	24,229	96.3%
0-90	25,135	99.9%
0-180	25,160	100.0%

IL450 Series

LED Stadium / Sport Arena Lighting - 185Watt

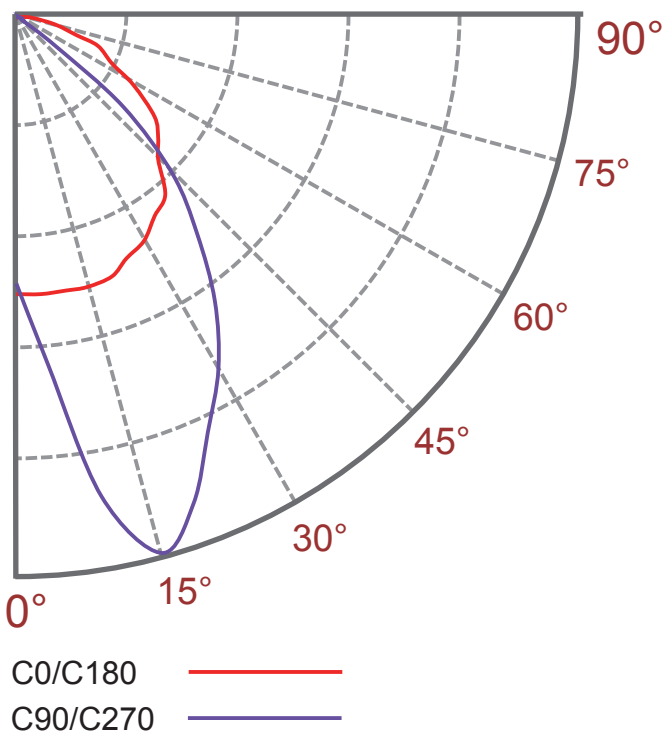
Specification - Type II Medium

Fixture Watts	185 W
Lumens (Total)*	24,235 lm
Efficacy *	131 lm / W
Number of LEDs & Driving Current	96@625mA
T _s - Solder Point Temp *	64°C / 147°F
L70 Rating @ T _a 25°C	>160K hours
Operational Temperature (T _a)	-40° ~ 55°C / -40° ~ 131°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
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* Test data @ T_a: 25°C. All lumen values have ±7% tolerance

NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	8,143	33.6%
0-40	12,893	53.2%
0-60	20,697	85.4%
0-90	24,162	99.7%
0-180	24,235	100.0%

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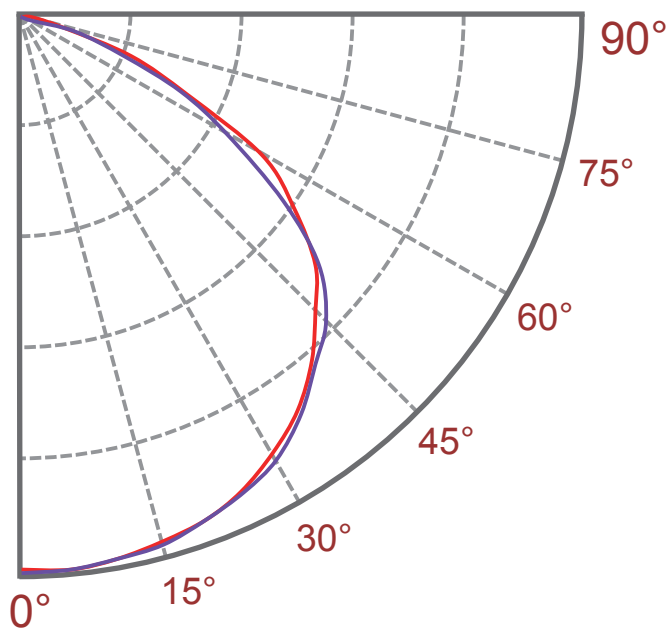
Specification - Type V Round Medium

Fixture Watts	185 W
Lumens (Total)*	27,750 lm
Efficacy *	150 lm / W
Number of LEDs & Driving Current	112@535mA
T _s - Solder Point Temp *	61°C / 142°F
L70 Rating @ T _a 25°C	>160K hours
Operational Temperature (T _a)	-40° ~ 55°C / -40° ~ 131°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* Test data @ T_a: 25°C. All lumen values have ±7% tolerance

NOTE: Light intensities measured directly below fixture

Light Distribution Curve



C0/C180 —
C90/C270 —

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	7,659	27.6%
0-40	12,848	46.3%
0-60	23,504	84.7%
0-90	27,750	100.0%
0-180	27,750	100.0%

IL450 Series

LED Stadium / Sport Arena Lighting - 185Watt

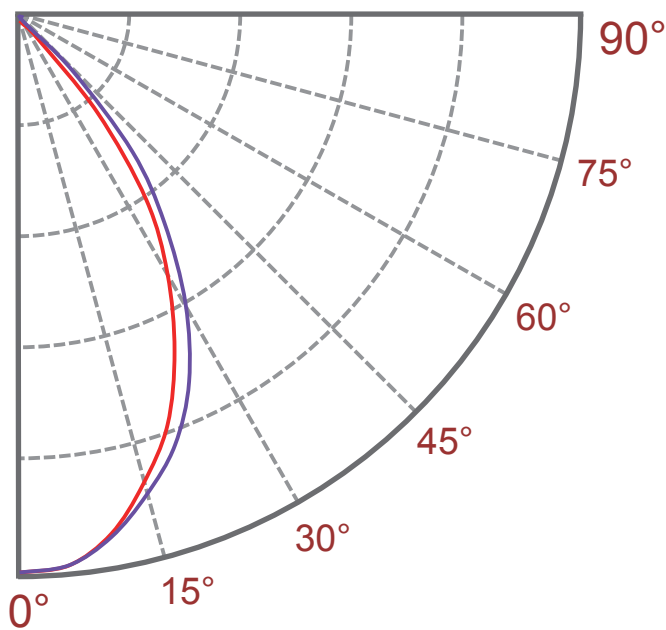
Specification - Type V Square Short

Fixture Watts	185 W
Lumens (Total)*	26,085 lm
Efficacy *	141 lm / W
Number of LEDs & Driving Current	112@535mA
T _s - Solder Point Temp *	62°C / 144°F
L70 Rating @ T _a 25°C	>160K hours
Operational Temperature (T _a)	-40° ~ 55°C / -40° ~ 131°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* Test data @ T_a: 25°C. All lumen values have ±7% tolerance

NOTE: Light intensities measured directly below fixture

Light Distribution Curve



C0/C180 —
 C90/C270 —

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	15,729	60.3%
0-40	22,459	86.1%
0-60	26,033	99.8%
0-90	26,059	99.9%
0-180	26,085	100.0%

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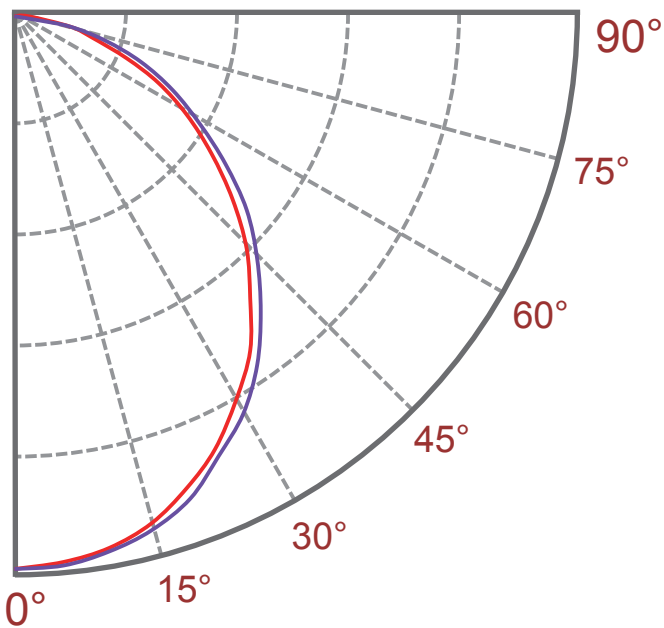
Specification - Type V Frosted Long

Fixture Watts	185 W
Lumens (Total)*	23,680 lm
Efficacy *	128 lm / W
Number of LEDs & Driving Current	112@535mA
T _s - Solder Point Temp *	61°C / 142°F
L70 Rating @ T _a 25°C	>160K hours
Operational Temperature (T _a)	-40° ~ 55°C / -40° ~ 131°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* Test data @ T_a: 25°C. All lumen values have ±7% tolerance

NOTE: Light intensities measured directly below fixture

Light Distribution Curve



C0/C180 —————
C90/C270

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	6,962	29.4%
0-40	11,248	47.5%
0-60	19,110	80.7%
0-90	23,656	99.9%
0-180	23,680	100.0%