## IL450 Series



## **Advantages of IL450**

- Technologically advanced LED high mast light fixture
- 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 with daylight sensor enabling greater savings and flexibility
- Available with tandem mounting option for various high mast applications
- Titanium rated high efficiency LED driver with smart
- L70 ≥ 150,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA









Wet Location

#### **Applications**

- Manufacturing Plants
- Shipping Ports
- Rail Yards
- Airplane Hangars
- Parking Lots
- Lock and Dams
- Correctional Facilities
- High Speed Interchanges
- Ski Lifts

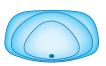
# **IL450** Series

#### LED High Mast Lighting

## **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



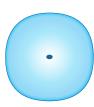
**S5 - Type V Square** / symmetric for high-bay, aisle, high-mast and flood applications

#### S - Short



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

L - Long



#### LED High Mast Lighting

# **Mounting Options**



#### **Pendant Mounting System**

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



#### **Snap & Turn Surface Mounting System**

Part Number	Part Description
SST-IL45-B	Snap & Turn Surface Mount Bracket / Steel Black



#### **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



#### **Wall Mounting System**

Part Number	Part Description
W90-IL45-45B	90° Wall Mount Elbow Bracket / 18" (45cm) / Galvanized Steel Black
W90-IL45-75B	90° Wall Mount Elbow Bracket / 30" (75cm) / Galvanized Steel Black



#### **Swivel Mounting System**

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



#### **Tandem Mounting System**

Part Number	Part Description
TMS-IL45-45SS	Tandem Mounting System / 18" (45cm) / Stainless Steel
TMS-IL45-90SS	Tandem Mounting System / 36" (90cm) / Stainless Steel



## **Ordering Information**

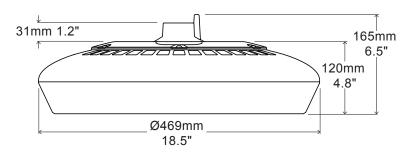
IL45	Wattage	Voltage	-	Optics	Pitch	_	CCT	Driver & Control *	-	Mounting **
	125 = 125W	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC		02 = Type II R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	L = Long			ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor SC = Smart Control		PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount W90 = 90° Wall Mount SWL = Swivel Mount TMS = Tandem Mount

NOTE: Gray is the standard exterior color.

# **Example**

Part Number	Part Description
IL45150UV-S5S-50MD-TMS	LED High Mast Light / 150Watt / 100-277VAC / Type V Square / Short Pitch / 5000K Cool White / Non-Dimmable / Tandem 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























<sup>\*</sup> Smart control & daylight sensor available with ZHAGA standard receptacle module.

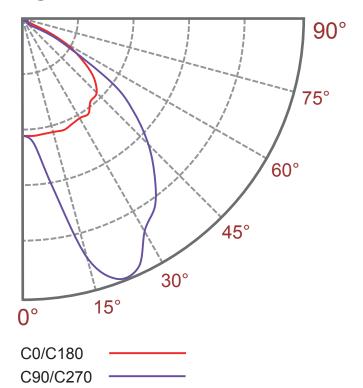
<sup>\*\*</sup> PDS is the standard mounting system, with 1" NPT threaded hole.

# **Specification - Type II Short**

Fixture Watts	150 W	
Lumens (Total)*	21,450 lm	
Efficacy *	143 lm / W	
Number of LEDs & Driving Current	96@515mA	
Ts - Solder Point Temp *	59°C / 138°F	
L70 Rating @ T <sub>a</sub> 25°C	>175K hours	
Operational Temperature (Ta)	-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 / Daylight Sensor	
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	

 $<sup>^*</sup>$  Test data @ Ta: 25°C. All lumen values have  $\pm 7\%$  tolerance NOTE: Light intensities measured directly below fixture

## **Light Distribution Curve**



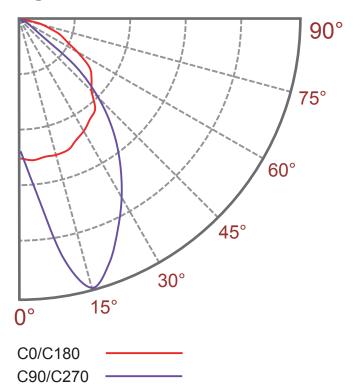
Zone (°)	Lumens	% Fixture
0-30	.6,692	31.2%
0-40	11,540	53.8%
0-60	20,056	93.5%
0-90	21,429	99.9%
0-180	21,450	100.0%

# **Specification - Type II Medium**

Fixture Watts	150 W
Lumens (Total)*	20,700 lm
Efficacy *	138 lm / W
Number of LEDs & Driving Current	96@515mA
Ts - Solder Point Temp *	59°C / 138°F
L70 Rating @ T <sub>a</sub> 25°C	>175K hours
Operational Temperature (Ta)	-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 / Daylight Sensor	
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

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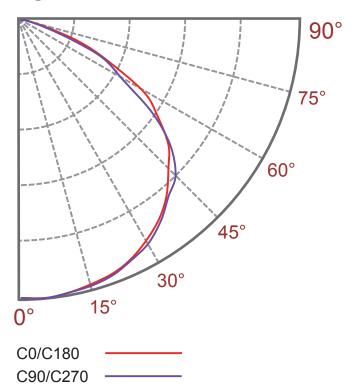
Zone (°)	Lumens	% Fixture
0-30	6,914	33.4%
0-40	10,971	53.0%
0-60	17,657	85.3%
0-90	20,638	99.7%
0-180	20,700	100.0%

# **Specification - Type V Round Medium**

Fixture Watts	150 W	
Lumens (Total)*	22,800 lm	
Efficacy *	152 lm / W	
Number of LEDs & Driving Current	112@440mA	
Ts - Solder Point Temp *	56°C / 133°F	
L70 Rating @ T <sub>a</sub> 25°C	>175K hours	
Operational Temperature (Ta)	-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 / Daylight Sensor	
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	

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## **Light Distribution Curve**



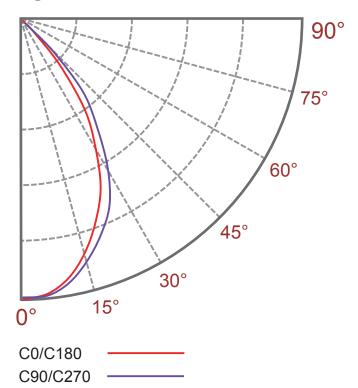
Zone (°)	Lumens	% Fixture
0-30	6,270	27.5%
0-40	10,534	46.2%
0-60	19,289	84.6%
0-90	21,156	100.0%
0-180	22,800	100.0%

# **Specification - Type V Square Short**

Fixture Watts	150 W	
Lumens (Total)*	21,450 lm	
Efficacy *	143 lm / W	
Number of LEDs & Driving Current	112@440mA	
Ts - Solder Point Temp *	57°C / 135°F	
L70 Rating @ T <sub>a</sub> 25°C	>175K hours	
Operational Temperature (Ta)	-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 / Daylight Sensor	
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	

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## **Light Distribution Curve**



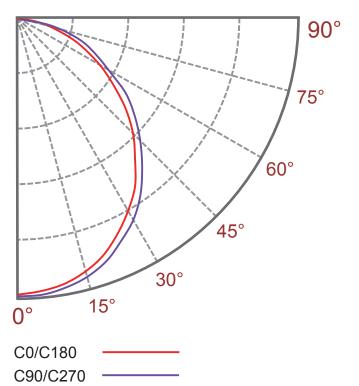
Zone (°)	Lumens	% Fixture
0-30	12,891	60.1%
0-40	18,447	86.0%
0-60	21,364	99.6%
0-90	21,450	100.0%
0-180	21,450	100.0%

# **Specification - Type V Frosted Long**

Fixture Watts	150 W	
Lumens (Total)*	19,500 lm	
Efficacy *	130 lm / W	
Number of LEDs & Driving Current	112@440mA	
Ts - Solder Point Temp *	56°C / 133°F	
L70 Rating @ Ta 25°C	>175K hours	
Operational Temperature (T <sub>a</sub> )	-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 / Daylight Sensor	
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	

 $<sup>^*</sup>$  Test data @ Ta: 25°C. All lumen values have  $\pm 7\%$  tolerance NOTE: Light intensities measured directly below fixture

## **Light Distribution Curve**



Zone (°)	Lumens	% Fixture
0-30	5,733	29.4%
0-40	9,243	47.4%
0-60	15,737	80.7%
0-90	19,422	99.6%
0-180	19,500	100.0%