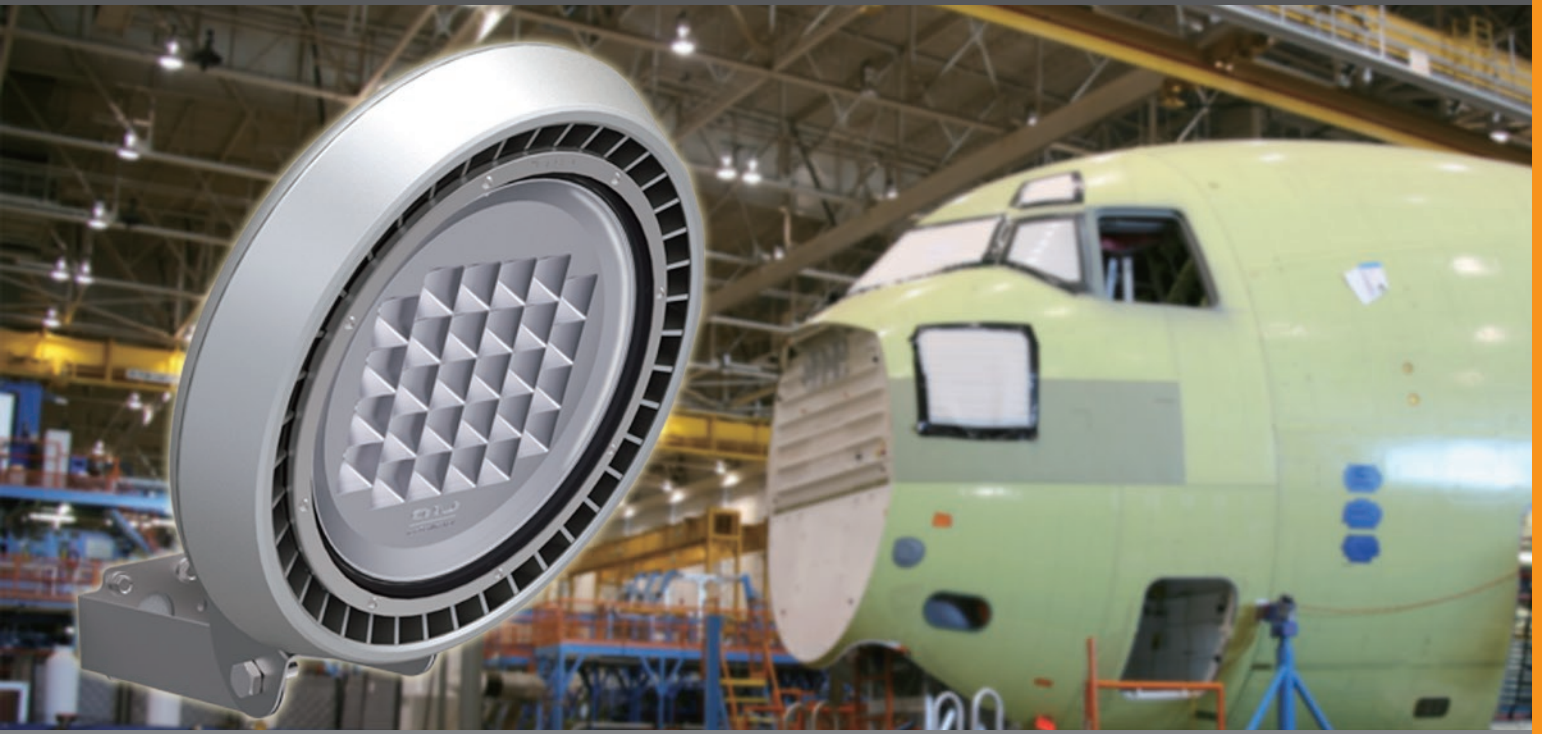


IL450 Series

LED High Mast Lighting



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 circuitry
- L70 ≥ 150,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA

Applications

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



Years Warranty



Smart Control



Wet Location



Impact Resistance

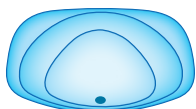
IL450 Series

LED High Mast Lighting

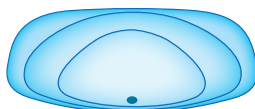
Optic Options

02 - Type II / wall mount & perimeter lighting applications

S - Short

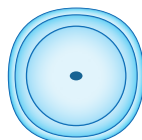


M - Medium



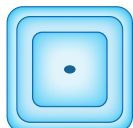
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

M - Medium



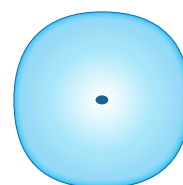
S5 - Type V Square / symmetric for high-bay, aisle, high-mast and flood applications

S - Short



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

L - Long



IL450 Series

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

IL450 Series

LED High Mast Lighting - 125Watt

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 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.

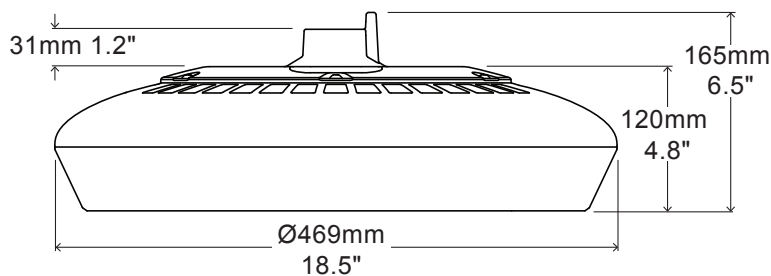
* Smart control & daylight sensor available with ZHAGA standard receptacle module.

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

Example

Part Number	Part Description
IL45125UV-S5S-50MD-TMS	LED High Mast Light / 125Watt / 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



IL450 Series

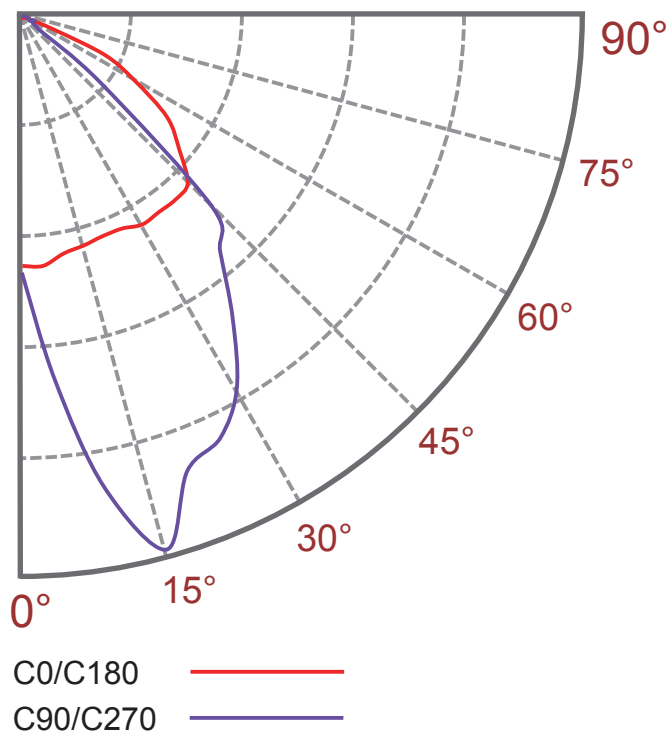
LED High Mast Lighting - 125Watt

Specification - Type II Short

Fixture Watts	125 W
Lumens (Total)*	18,625 lm
Efficacy *	149 lm / W
Number of LEDs & Driving Current	96@440mA
T _s - Solder Point Temp *	55°C / 131°F
L70 Rating @ T _a 25°C	>180K 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 / 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

* 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	7,562	40.6%
0-40	11,920	64.0%
0-60	17,936	96.3%
0-90	18,606	99.9%
0-180	18,625	100.0%

IL450 Series

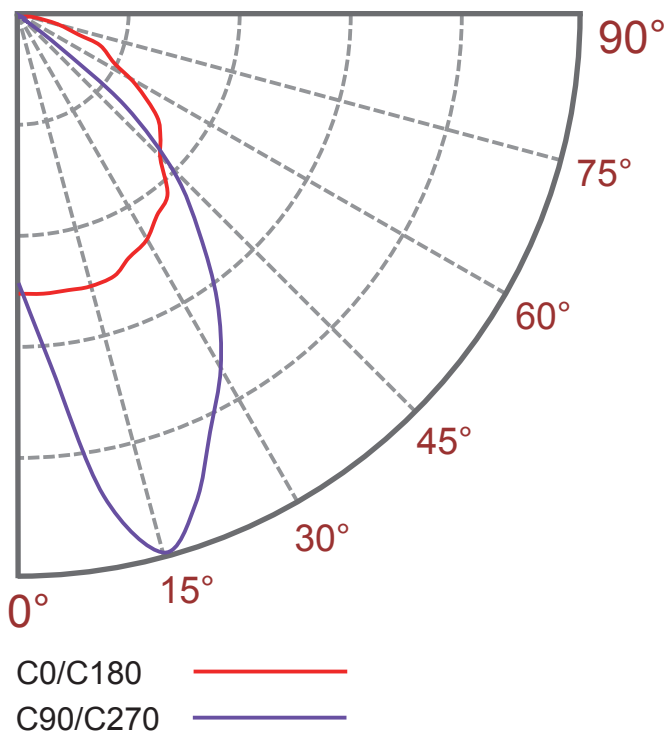
LED High Mast Lighting - 125Watt

Specification - Type II Medium

Fixture Watts	125 W
Lumens (Total)*	17,875 lm
Efficacy *	143 lm / W
Number of LEDs & Driving Current	96@440mA
T _s - Solder Point Temp *	55°C / 131°F
L70 Rating @ T _a 25°C	>180K 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 / 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

* 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	6,006	33.6%
0-40	9,510	53.2%
0-60	15,265	85.4%
0-90	17,821	99.7%
0-180	17,875	100.0%

IL450 Series

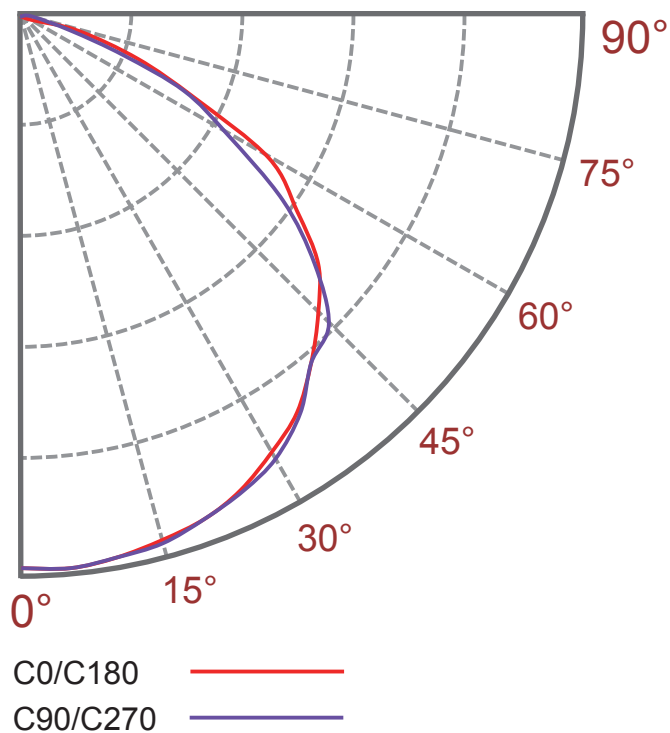
LED High Mast Lighting - 125Watt

Specification - Type V Round Medium

Fixture Watts	125 W
Lumens (Total)*	19,625 lm
Efficacy *	157 lm / W
Number of LEDs & Driving Current	112@375mA
T _s - Solder Point Temp *	53°C / 127°F
L70 Rating @ T _a 25°C	>180K 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 / 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

* 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	5,397	27.5%
0-40	9,047	46.1%
0-60	16,603	84.6%
0-90	19,625	100.0%
0-180	19,625	100.0%

IL450 Series

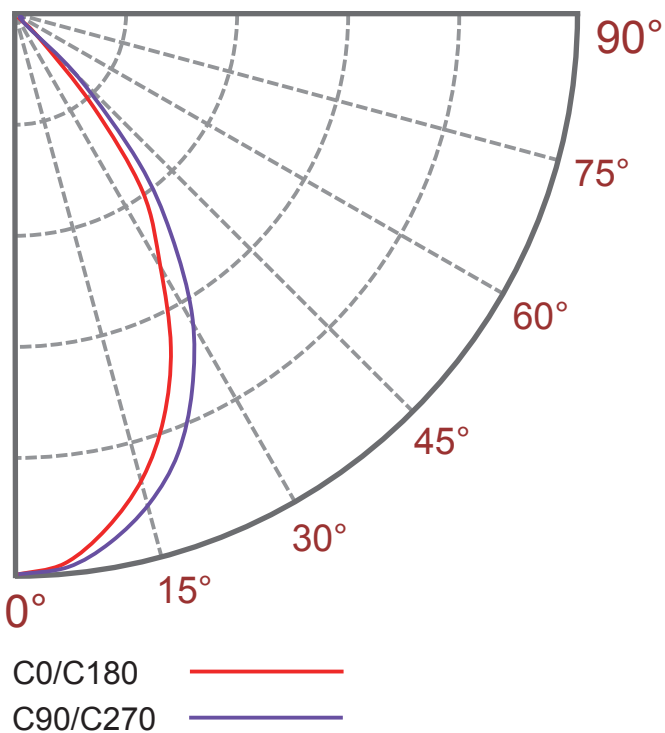
LED High Mast Lighting - 125Watt

Specification - Type V Square Short

Fixture Watts	125 W
Lumens (Total)*	18,500 lm
Efficacy *	148 lm / W
Number of LEDs & Driving Current	112@375mA
T _s - Solder Point Temp *	54°C / 129°F
L70 Rating @ T _a 25°C	>180K 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 / 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

* 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	11,082	59.9%
0-40	15,855	85.7%
0-60	18,482	99.9%
0-90	18,500	100.0%
0-180	18,500	100.0%

IL450 Series

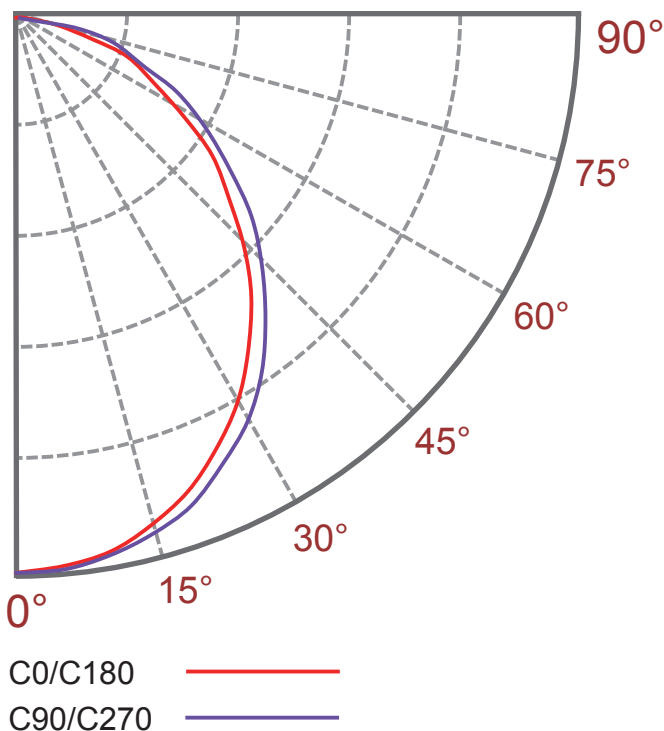
LED High Mast Lighting - 125Watt

Specification - Type V Frosted Long

Fixture Watts	125 W
Lumens (Total)*	16,750 lm
Efficacy *	134 lm / W
Number of LEDs & Driving Current	112@375mA
T _s - Solder Point Temp *	54°C / 129°F
L70 Rating @ T _a 25°C	>180K 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 / 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

* 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	4,925	29.4%
0-40	7,940	47.4%
0-60	13,517	80.7%
0-90	16,700	99.7%
0-180	16,750	100.0%