

# IL 450 Series

## LED Industrial Lighting

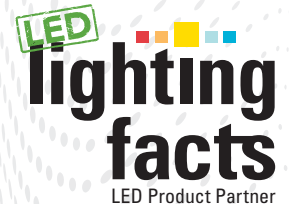


### Advantages of IL450

- **Proprietary Reflector and Optics** enabling glare-free uniform lighting for all working environments. Eliminating the need for costly and fragile plastic lenses
- Cost effective solution with a **Short ROI Period**
- **Advanced Thermal Technology** enables low LED junction temperatures ( $T_j$ ) for maintenance free long life
- **Dura-Guard** double layer epoxy coating with industry leading 10 year protection on weather and corrosion
- L70 Rating @  $T_a$  25°C Over 150,000 hour rated life
- Optional programmable **RF Wireless Smart Control System with PIR motion & daylight sensor** enabling greater savings and flexibility
- A true industrial grade luminaire that is **IP68** (water, dust & vapor-proof) rated with an exceptional **10-Year Limited Warranty**
- Designed and Engineered in the **USA**

### Application - High Bay

- Food Processing Plants
- Manufacturing Plants
- Warehouses
- Parking Structures
- Canopy Lighting
- Sports Arenas
- Airplane Hangers
- High Mast



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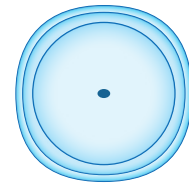
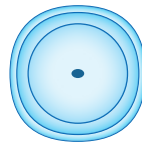
### Optics Options

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

**S - Short**

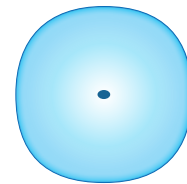
**M - Medium**

**L - Long**



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

**L - Long**

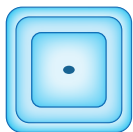


**S5 - Type V Square** / symmetric for high-bay, isle, high-mast and flood application

**S - Short**

**M - Medium**

**L - Long**



# IL 450 Series

## LED Industrial Lighting

### Mounting Options



#### SPRING LOADED SNAP & TURN SURFACE MOUNTING SYSTEM

##### Part Number

##### Part Description

SST-IL45-B

Snap & Turn Surface Mount Bracket / Steel Black



#### SPRING LOADED SNAP & TURN MOUNTING SYSTEM

##### Part Number

##### Part Description

SST-IL45-45B

Snap & Turn Hanging System / 18" (45cm) / Galvanized Steel Black

SST-IL45-90B

Snap & Turn Hanging System / 36" (90cm) / Galvanized Steel Black



#### CHAIN CHANDELIER 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



#### VARIABLE ANGLE SWIVEL MOUNTING SYSTEM

##### Part Number

##### Part Description

SWL-IL45-SS

Variable Angle Swivel Mounting Bracket / Stainless Steel

# IL450 Series

## LED Industrial Lighting - 220Watt

### Ordering Information

IL45	Wattage	Voltage	Optics	Pitch	CCT	Driver	Mounting *
	075 = 75Watt 100 = 100Watt 120 = 120Watt 150 = 150Watt 185 = 185Watt 220 = 220Watt	UV = 90-277VAC HV = 305-528VAC DV = 127-380VDC	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 = Dimmable With Sensor DL = Dali Control LS = Dali Control With Sensor	SST = Snap & Turn CH4 = 4 Chain W90 = 90° Mount SWL = Swivel Mount

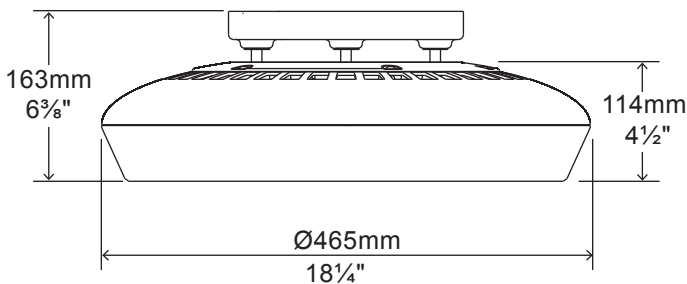
\* SST mount is standard, please see mounting options accessories for details.

NOTE: Outdoor application and corrosive environment please request glass lens.  
Gray is the standard exterior color. Other colors are available on request.

### Example

Part Number	Part Description
<b>IL450-220UV-R5M-50DS-SST</b>	LED Industrial Light / 220Watt / 90-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable with Daylight & Motion Sensor / Snap & Turn

### External Dimensions



### Packaging Information

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 28 cm 19 5/8 x 19 5/8 x 11 in	16.5 kg 36.3 lbs

# IL 450 Series

## LED Industrial Lighting - 220Watt - Type V Round

### Specification - Type V Round Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	220 Watt
Lumens (Total) *	26,180 Lumens
Efficacy *	119 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@700mA
CRI	70 / 80
T <sub>J</sub> - Junction Temp (T <sub>a</sub> @ 25°C)	71°C
L70 Rating @ T <sub>a</sub> 25°C	> 150K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 50°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

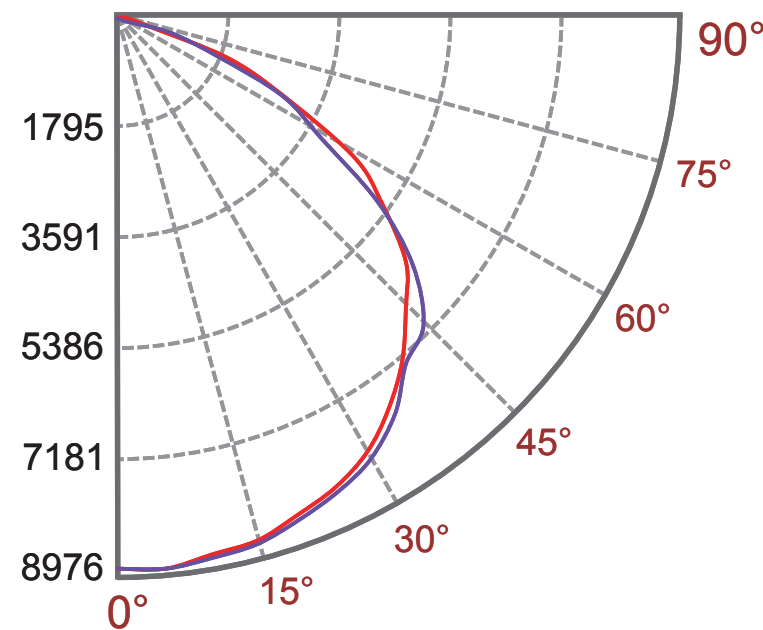
\* Test data @ 25°C

NOTE: All 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	7251.9	27.7%
0-40	12147.5	46.4%
0-60	22200.6	84.8%
0-90	26180.0	100.0%
0-180	26180.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	558	52
5m / 16.5ft	357	33
6m / 20ft	248	23
7m / 23ft	182	17
8m / 26ft	139.5	13
9m / 29.5ft	110	10
10m / 33ft	89	8

# IL 450 Series

## LED Industrial Lighting - 220Watt - Type V Round

### Specification - Type V Round Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	220 Watt
Lumens (Total) *	26,180 Lumens
Efficacy *	119 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@700mA
CRI	70 / 80
T <sub>J</sub> - Junction Temp (T <sub>a</sub> @ 25°C)	71°C
L70 Rating @ T <sub>a</sub> 25°C	> 150K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 50°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

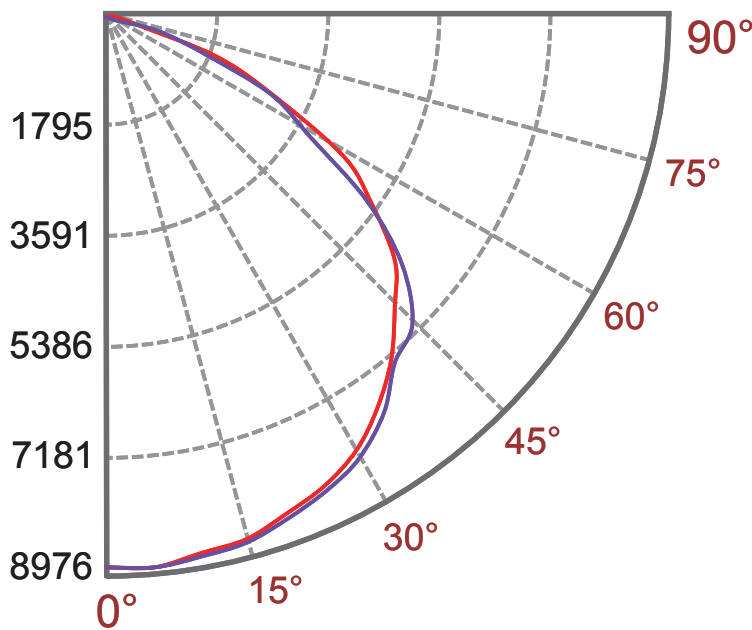
\* Test data @ 25°C

NOTE: All 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	7278.0	27.8%
0-40	11754.8	44.9%
0-60	20603.7	78.7%
0-90	26075.3	99.6%
0-180	26180.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	558	52
5m / 16.5ft	357	33
6m / 20ft	248	23
7m / 23ft	182	17
8m / 26ft	139.5	13
9m / 29.5ft	110	10
10m / 33ft	89	8

# IL 450 Series

## LED Industrial Lighting - 220Watt - Type V Frosted

### Specification - Type V Frosted Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	220 Watt
Lumens (Total) *	23,540 Lumens
Efficacy *	107 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@700mA
CRI	70 / 80
T <sub>J</sub> - Junction Temp (T <sub>a</sub> @ 25°C)	71°C
L70 Rating @ T <sub>a</sub> 25°C	> 150K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 50°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

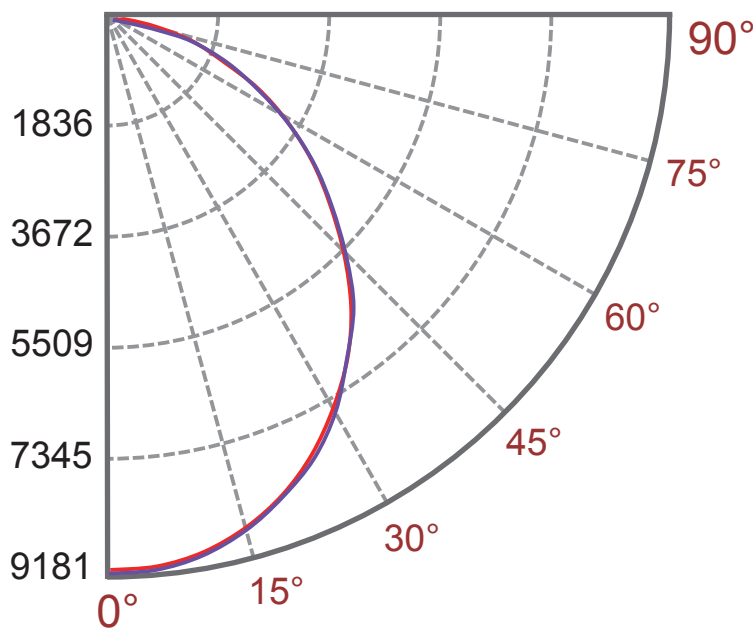
\* Test data @ 25°C

NOTE: All 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	6897.2	29.3%
0-40	11134.4	47.3%
0-60	18949.7	80.5%
0-90	23492.9	99.8%
0-180	23540.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	559.5	52
5m / 16.5ft	358	33
6m / 20ft	249	23
7m / 23ft	183	17
8m / 26ft	140	13
9m / 29.5ft	110.5	10
10m / 33ft	89.5	8

# IL 450 Series

## LED Industrial Lighting - 220Watt - Type V Square

### Specification - Type V Square Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	220 Watt
Lumens (Total)*	26,400 Lumens
Efficacy*	120 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@700mA
CRI	75
T <sub>J</sub> - Junction Temp (T <sub>a</sub> @ 25°C)	71°C
L70 Rating @ T <sub>a</sub> 25°C	> 150K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 50°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

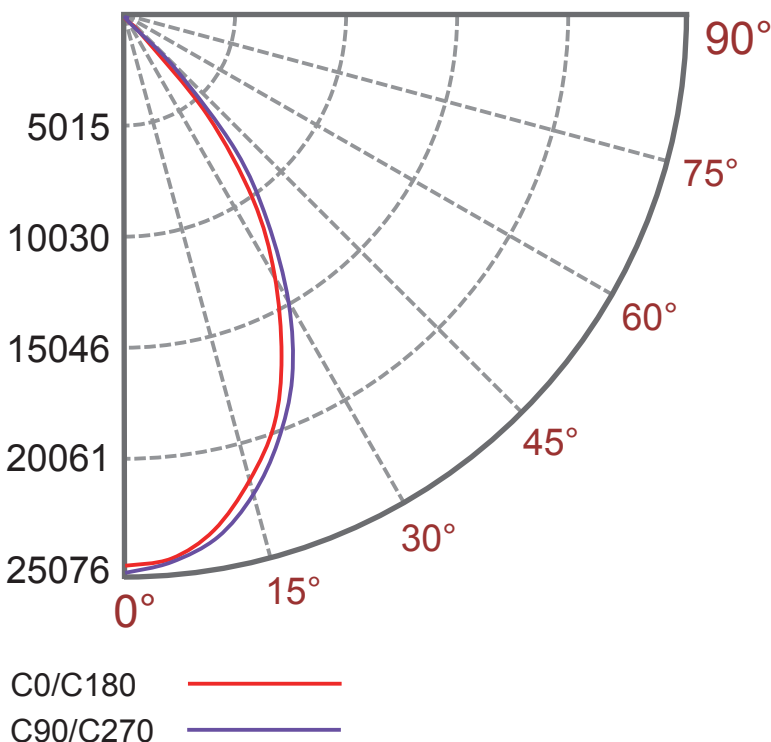
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	15919.2	60.3%
0-40	22756.8	86.2%
0-60	26373.6	99.9%
0-90	26400.0	100.0%
0-180	26400.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	1542	143
5m / 16.5ft	987	92
6m / 20ft	685	64
7m / 23ft	503	47
8m / 26ft	385	36
9m / 29.5ft	305	28
10m / 33ft	247	23