

IL 450 Series

LED Industrial Lighting

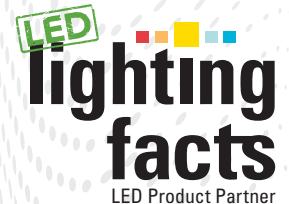


Advantages of IL450

- **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 190,000 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 - Low / Mid Bay

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



IL 450 Series

LED Industrial Lighting

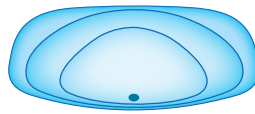
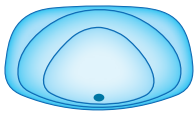
Optics Options

02 - Type II / wall mount & perimeter lighting

S - Short

M - Medium

L - Long

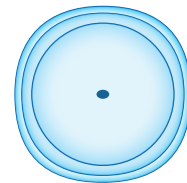
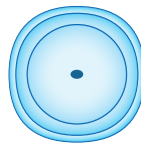


R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood application

S - Short

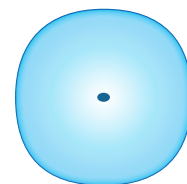
M - Medium

L - Long



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

L - Long

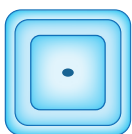


S5 - Type V Square / symmetric for high-bay, isle, high-mast and flood application

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

IL 450 Series

LED Industrial Lighting - 75Watt

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

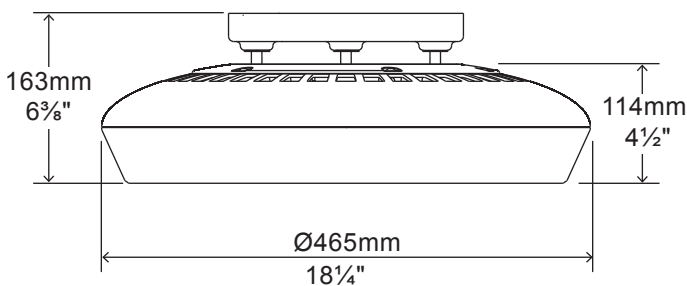
* SST mount is standard, please see mounting options accessories for details.

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
IL450-075UV-R5M-50DS-SST	LED Industrial Light / 75Watt / 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 22.5 cm 19 5/8 x 19 5/8 x 8 7/8 in	12.5 kg 27.5 lbs

IL 450 Series

LED Industrial Lighting - 75Watt - Type II

Specification - Type II Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	9,150 Lumens
Efficacy *	122 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@290mA
CRI	75
T _s - Solder Point Temp*	46°C
L70 Rating @ T _a 25°C	> 185K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°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



Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	392	36.5
5m / 16.5ft	267	24.5
6m / 20ft	171	16
7m / 23ft	131	12
8m / 26ft	96	9
9m / 29.5ft	68	6.5
10m / 33ft	48	4.5

IL 450 Series

LED Industrial Lighting - 75Watt - Type II

Specification - Type II Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	9,225 Lumens
Efficacy *	123 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@290mA
CRI	75
T _s - Solder Point Temp*	46°C
L70 Rating @ T _a 25°C	> 185K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°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



Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	325	30
5m / 16.5ft	228	21
6m / 20ft	144	13.5
7m / 23ft	110	10
8m / 26ft	80	7.5
9m / 29.5ft	57	5.5
10m / 33ft	41	3.5

IL 450 Series

LED Industrial Lighting - 75Watt - Type V Round

Specification - Type V Round Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	10,575 Lumens
Efficacy *	141 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@250mA
CRI	70 / 80
T _s - Solder Point Temp *	44°C
L70 Rating @ T _a 25°C	> 190K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

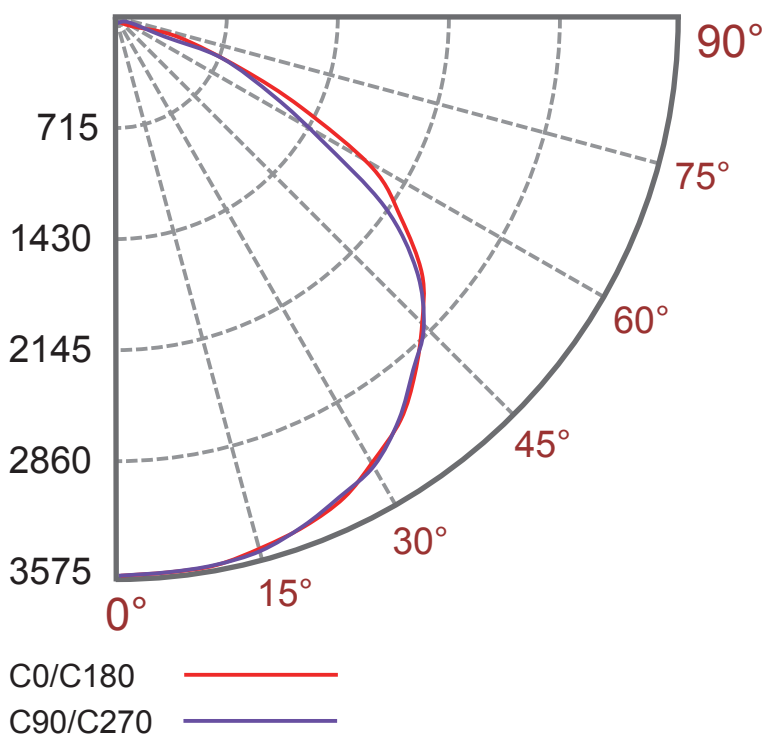
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	2897.6	27.4%
0-40	4864.5	46.0%
0-60	8925.3	84.4%
0-90	10557.0	100.0%
0-180	10575.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	222	21
5m / 16.5ft	142	13
6m / 20ft	99	9
7m / 23ft	73	6.5
8m / 26ft	55	5
9m / 29.5ft	44	4
10m / 33ft	36	3.5

IL 450 Series

LED Industrial Lighting - 75Watt - Type V Round

Specification - Type V Round Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	9,075 Lumens
Efficacy *	121 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@250mA
CRI	75
T _s - Solder Point Temp *	44°C
L70 Rating @ T _a 25°C	> 185K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

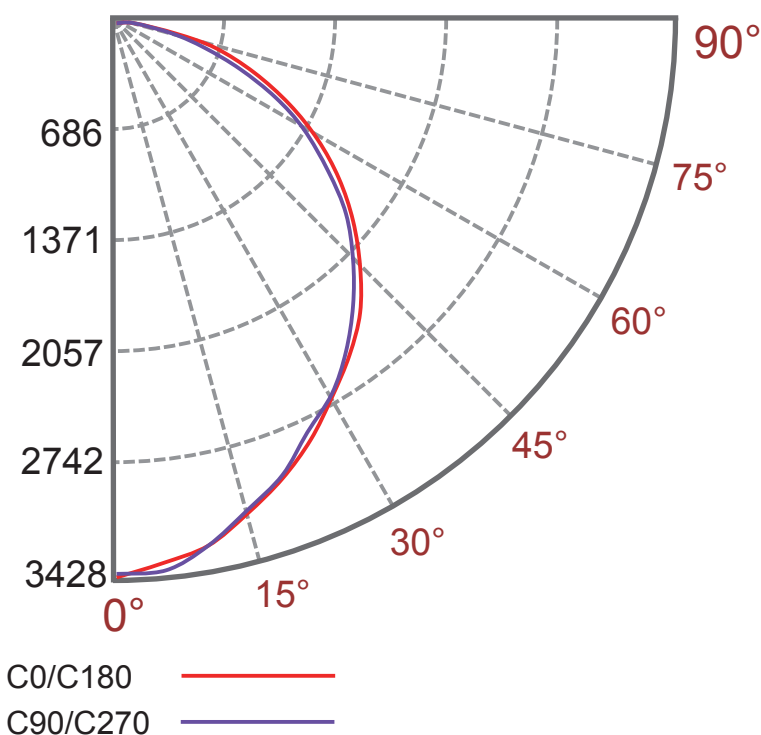
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	2513.8	27.7%
0-40	4065.6	44.8%
0-60	7133.0	78.6%
0-90	9038.7	99.6%
0-180	9075.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	214	20
5m / 16.5ft	137	13
6m / 20ft	95	9
7m / 23ft	70	6.5
8m / 26ft	53.5	5
9m / 29.5ft	42	4
10m / 33ft	34	3

IL 450 Series

LED Industrial Lighting - 75Watt - Type V Frosted

Specification - Type V Frosted Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	9,300 Lumens
Efficacy *	124 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@250mA
CRI	75
T _s - Solder Point Temp *	44°C
L70 Rating @ T _a 25°C	> 185K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

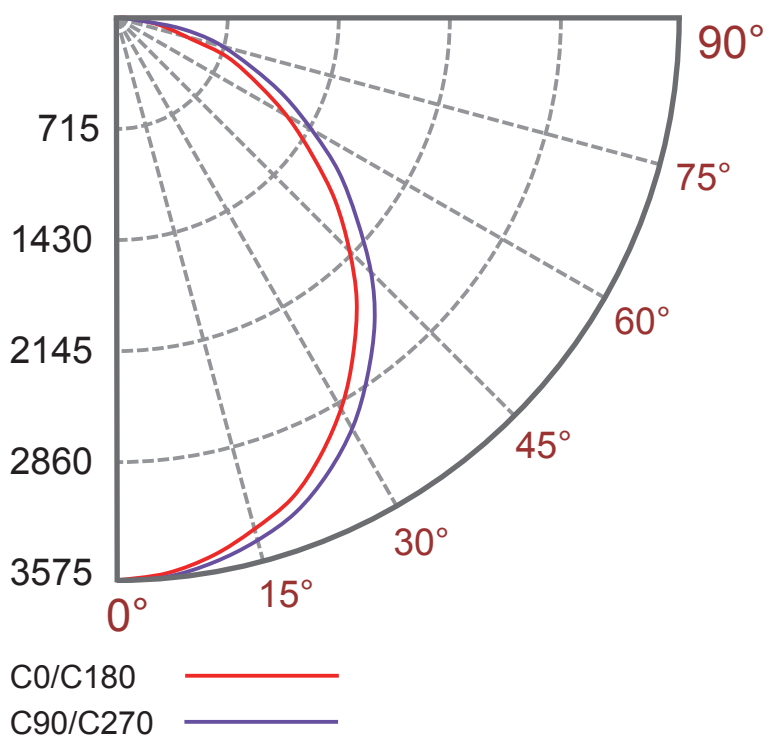
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	2734.2	29.4%
0-40	4408.2	47.4%
0-60	7505.1	80.7%
0-90	9262.8	99.6%
0-180	9300.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	223	21
5m / 16.5ft	143	13
6m / 20ft	99	9
7m / 23ft	73	6.5
8m / 26ft	56	5
9m / 29.5ft	44	4
10m / 33ft	36	3.5

IL450 Series

LED Industrial Lighting - 75Watt - Type V Square

Specification - Type V Square Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	75 Watt
Lumens (Total) *	10,575 Lumens
Efficacy *	141 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@250mA
CRI	75
T _s - Solder Point Temp *	44°C
L70 Rating @ T _a 25°C	> 185K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

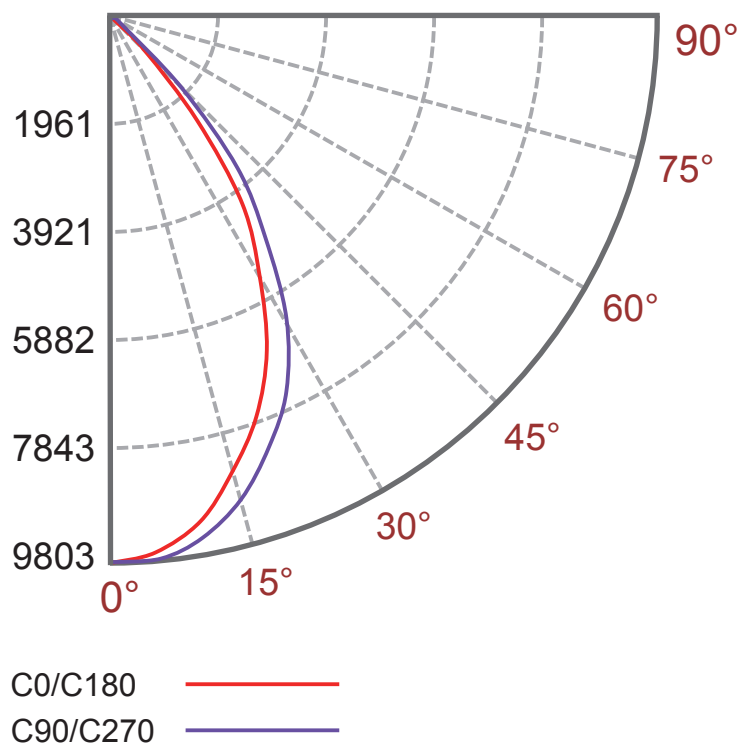
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	6302.7	59.6%
0-40	9009.9	85.2%
0-60	10546.4	99.9%
0-90	10575.0	100.0%
0-180	10575.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	613	57
5m / 16.5ft	392	36.5
6m / 20ft	272	25
7m / 23ft	200	18.5
8m / 26ft	153	14
9m / 29.5ft	121	11
10m / 33ft	98	9