

# IL 450 Series

LED Industrial Lighting

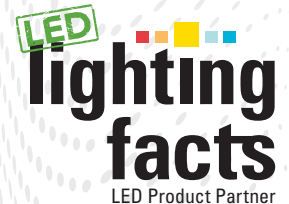


## Advantages of IL450

- **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 175,000 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 - Mid / High Bay

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



# IL 450 Series

## LED Industrial Lighting

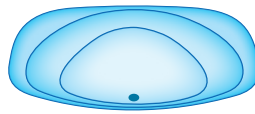
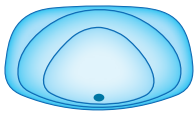
### Optics Options

#### 02 - Type II / wall mount & perimeter lighting

**S - Short**

**M - Medium**

**L - Long**

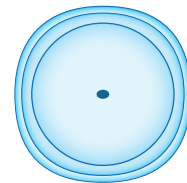
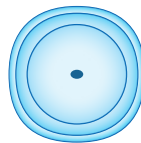


#### R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood application

**S - Short**

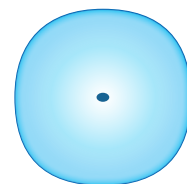
**M - Medium**

**L - Long**



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

**L - Long**

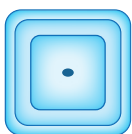


#### S5 - Type V Square / symmetric for high-bay, isle, high-mast and flood application

**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 - 120Watt

### 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

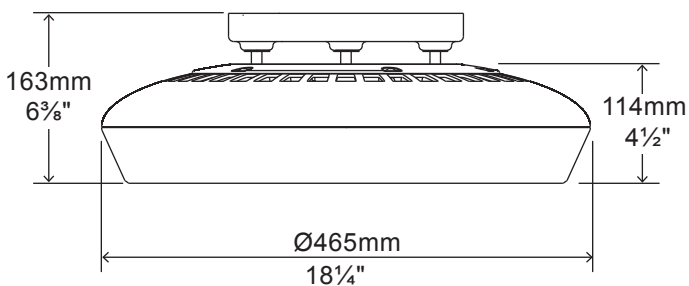
\* SST mount is standard, please see mounting options accessories for details.

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>IL450-120UV-R5M-50DS-SST</b>	LED Industrial Light / 120Watt / 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 - 120Watt - Type II

### Specification - Type II Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	14,280 Lumens
Efficacy *	119 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@450mA
CRI	75
T <sub>s</sub> - Solder Point Temp *	58°C
L70 Rating @ T <sub>a</sub> 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

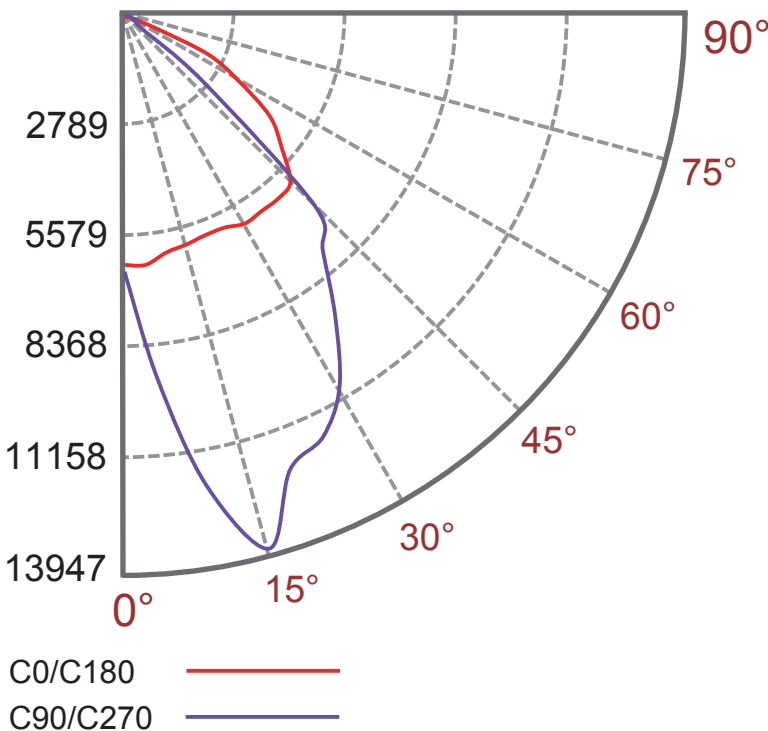
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5797.7	40.6%
0-40	9139.2	64.0%
0-60	13751.6	96.3%
0-90	14265.7	99.9%
0-180	14280.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	331	31
5m / 16.5ft	212	20
6m / 20ft	147	14
7m / 23ft	108	10
8m / 26ft	83	8
9m / 29.5ft	65.5	6
10m / 33ft	53	5

# IL 450 Series

## LED Industrial Lighting - 120Watt - Type II

### Specification - Type II Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	14,280 Lumens
Efficacy *	119 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@450mA
CRI	75
T <sub>s</sub> - Solder Point Temp *	58°C
L70 Rating @ T <sub>a</sub> 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

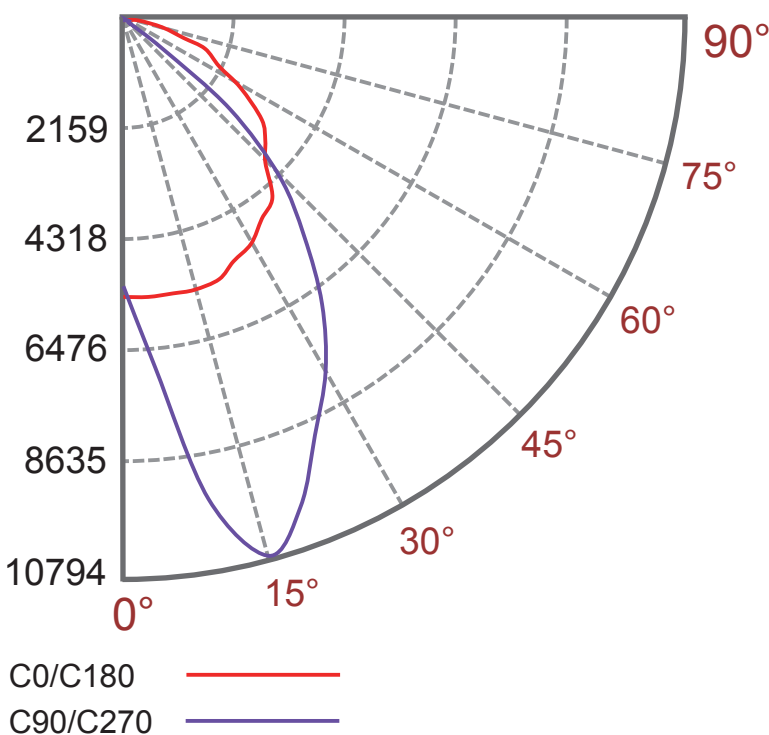
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	4798.1	33.6%
0-40	7597.0	53.2%
0-60	12195.1	85.4%
0-90	14237.2	99.7%
0-180	14280.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	335	31
5m / 16.5ft	214.5	20
6m / 20ft	149	14
7m / 23ft	109	10
8m / 26ft	84	8
9m / 29.5ft	66	6
10m / 33ft	53.5	5



# IL 450 Series

## LED Industrial Lighting - 120Watt - Type V Round

### Specification - Type V Round Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	16,560 Lumens
Efficacy *	138 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@390mA
CRI	70 / 80
T <sub>s</sub> - Solder Point Temp *	54°C
L70 Rating @ T <sub>a</sub> 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

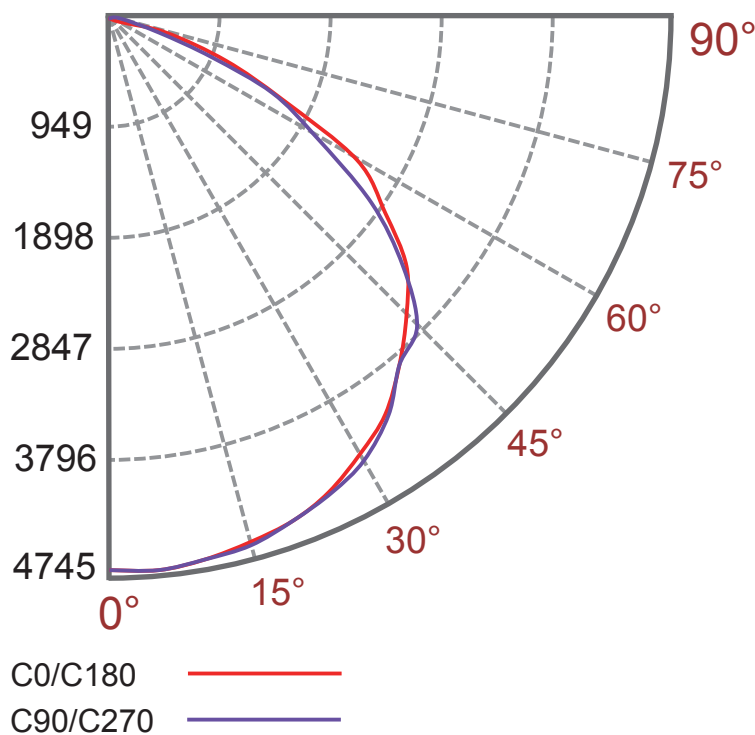
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	4537.5	27.5%
0-40	7634.2	46.1%
0-60	14009.8	84.6%
0-90	16560.0	100.0%
0-180	16560.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	348	32
5m / 16.5ft	223	21
6m / 20ft	155	14.5
7m / 23ft	113.5	10.5
8m / 26ft	87	8
9m / 29.5ft	69	6.5
10m / 33ft	56	5

# IL 450 Series

## LED Industrial Lighting - 120Watt - Type V Round

### Specification - Type V Round Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	14,040 Lumens
Efficacy *	117 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@390mA
CRI	70 / 80
T <sub>s</sub> - Solder Point Temp *	54°C
L70 Rating @ T <sub>a</sub> 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

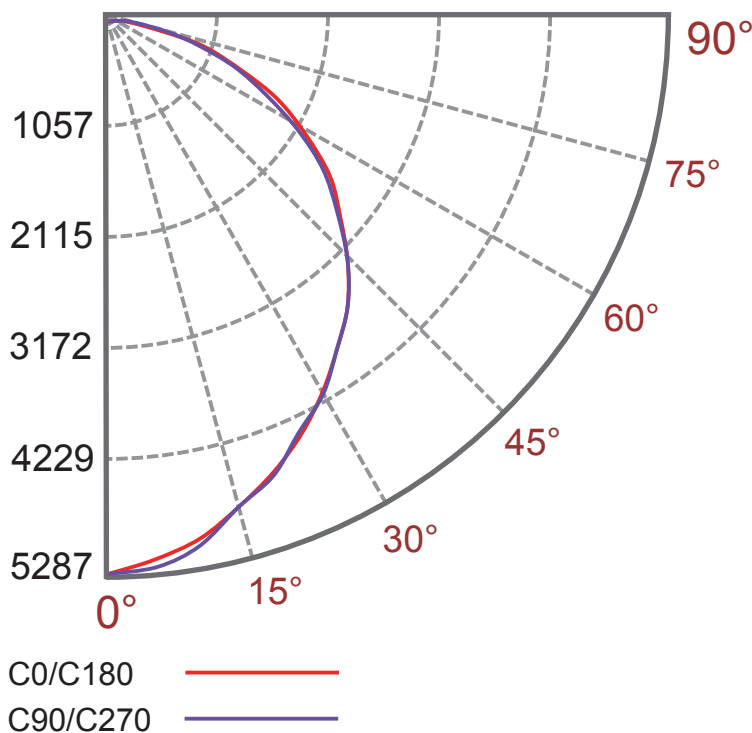
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	3889.1	27.7%
0-40	6289.9	44.8%
0-60	11035.4	78.6%
0-90	13983.8	99.6%
0-180	14040.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	330	31
5m / 16.5ft	211	19.5
6m / 20ft	147	14
7m / 23ft	108	10
8m / 26ft	82.5	7.5
9m / 29.5ft	65	6
10m / 33ft	53	5



# IL 450 Series

## LED Industrial Lighting - 120Watt - Type V Frosted

### Specification - Type V Frosted Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	14,400 Lumens
Efficacy *	120 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@390mA
CRI	70 / 80
T <sub>s</sub> - Solder Point Temp *	54°C
L70 Rating @ T <sub>a</sub> 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

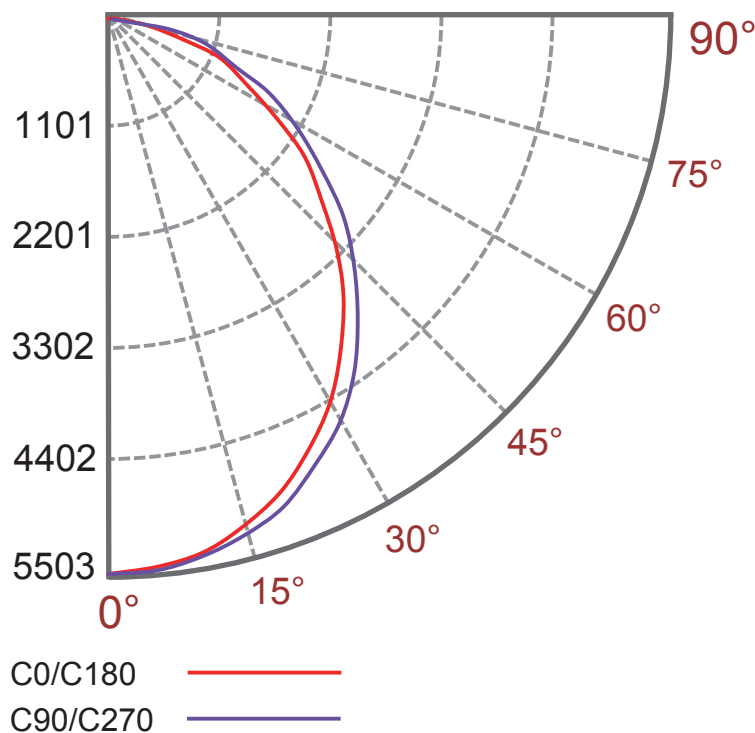
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	4233.6	29.4%
0-40	6825.6	47.4%
0-60	11620.8	80.7%
0-90	14356.8	99.7%
0-180	14400.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	344	32
5m / 16.5ft	220	20.5
6m / 20ft	153	14
7m / 23ft	112	10.5
8m / 26ft	86	8
9m / 29.5ft	68	6
10m / 33ft	55	5

# IL 450 Series

## LED Industrial Lighting - 120Watt - Type V Square

### Specification - Type V Square Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	120 Watt
Lumens (Total) *	16,200 Lumens
Efficacy *	135 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@390mA
CRI	75
T <sub>s</sub> - Solder Point Temp *	54°C
L70 Rating @ T <sub>a</sub> 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T <sub>a</sub> )	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

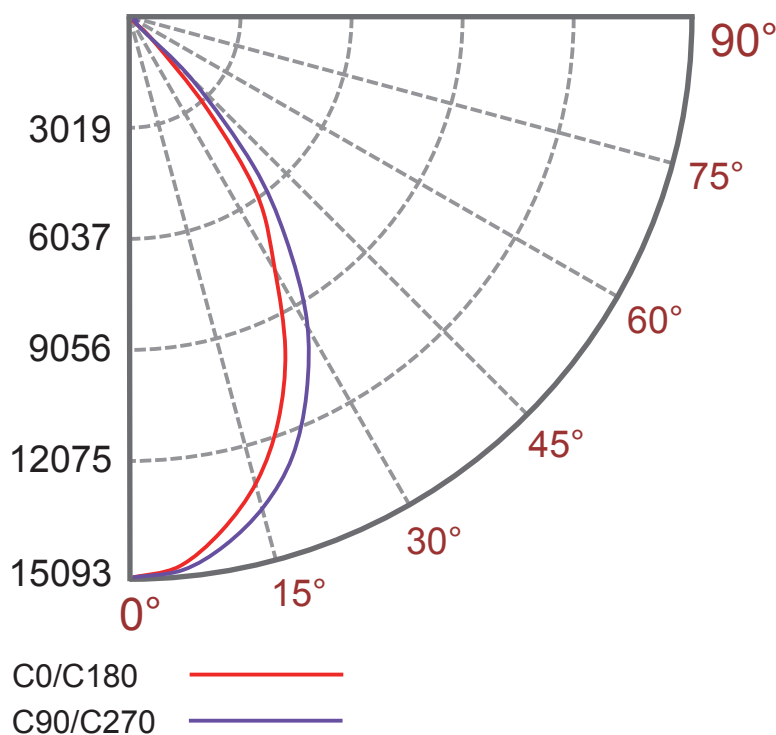
\* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



### Light Distribution Curve



### Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	9703.8	59.9%
0-40	13883.4	85.7%
0-60	16183.8	99.9%
0-90	16200.0	100.0%
0-180	16200.0	100.0%

### Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	943	87.5
5m / 16.5ft	603	56
6m / 20ft	419	39
7m / 23ft	308	28.5
8m / 26ft	236	22
9m / 29.5ft	186	17
10m / 33ft	151	14