

ILX 450 Series

Extreme Application LED Lighting



Advantages of ILX450

- Ultra bright industry leading **High Efficacy (lm/W)** LED industrial light
- **Hazardous Area and High Heat Rating** with an operational temperature of - 50 ~ + 65°C
- NEMA 4X industrial grade Dura-Guard powder coating with **10 years protection on weather and corrosion**
- **Marine Rated Stainless Steel** components and trimmings
- Proprietary Reflector and optics enabling glare-free uniform lighting for all applications. Eliminating the need for costly and fragile plastic lenses
- Advanced Thermal Technology enables low LED junction temperatures (Tj) for **maintenance free long life**
- High efficiency LED driver with integrated smart circuitry and **surge & transient voltage protection**
- Optional **RF / WIFI Wireless Dali Control System** with PIR motion & daylight sensor enabling greater savings and flexibility
- **L70 Rating @ Ta 25°C over 190,000 hour rated life**
- IP68 and **Petro-Chemical Industry rated** luminaire with an exceptional 10-Year Limited Warranty
- **Designed and engineered in USA**

Application - High Bay

- Oil & Gas
- Mining
- Food processing
- Foundries
- Paper and Pulp Mills
- Grain Mills
- Desalination Plants
- Chemical Plants
- Power Generation
- Water & Sewage



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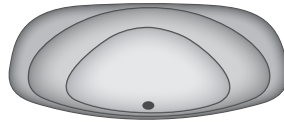
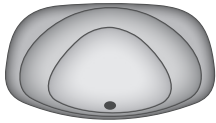
Optics Options

02 - Type II / wall mount & perimeter lighting

S - Short

M - Medium

L - Long

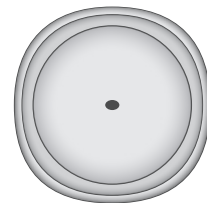
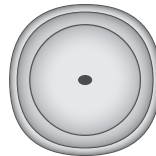
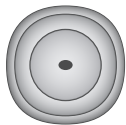


R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood application

S - Short

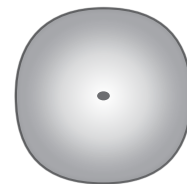
M - Medium

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



ILX 450 Series

Extreme Application LED Lighting

Mounting Options



SPRING LOADED SNAP & TURN SURFACE MOUNTING SYSTEM

Part Number

Part Description

SST-ILX45-SS |

Snap & Turn Surface Mount Bracket / Stainless Steel



SPRING LOADED SNAP & TURN MOUNTING SYSTEM

Part Number

Part Description

SST-ILX45-H45SS |

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

SST-ILX45-H90SS |

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



CHAIN CHANDELIER MOUNTING SYSTEM

Part Number

Part Description

CH4-ILX45-45SS |

4 Link Chain Chandelier System / 18" (45cm) / Stainless Steel

CH4-ILX45-90SS |

4 Link Chain Chandelier System / 36" (90cm) / Stainless Steel



WALL MOUNTING SYSTEM

Part Number

W90-ILX45-45B |

90° Wall Mount Elbow Bracket / 18" (45cm) / Galvanized Steel Black

W90-ILX45-75B |

90° Wall Mount Elbow Bracket / 30" (75cm) / Galvanized Steel Black



VARIABLE ANGLE SWIVEL MOUNTING SYSTEM

Part Number

SWL-ILX45-SS |

Variable Angle Swivel Mounting Bracket / Stainless Steel



TANDEM MOUNTING SYSTEM

Part Number

TMS-ILX45-90SS |

Tandem Mounting System / 36" (90cm) / Stainless Steel

ILX 450 Series

Extreme Application LED Lighting - 120Watt

Ordering Information

ILX45	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	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 = Dimmable With Sensor DL = Dali Control LS = Dali Control With Sensor	SST = Snap & Turn CH4 = 4 Chain W90 = 90° Mount SWL = Swivel Mount TMS = Tandem Mount

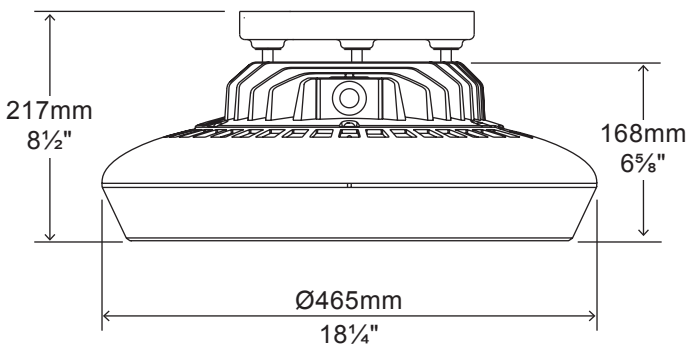
* SST mount is standard, please see mounting options accessories for details.

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
ILX45120UV-R5M-50DS-SST	LED Industrial Light / 120Watt / 90-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable with 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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	58°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

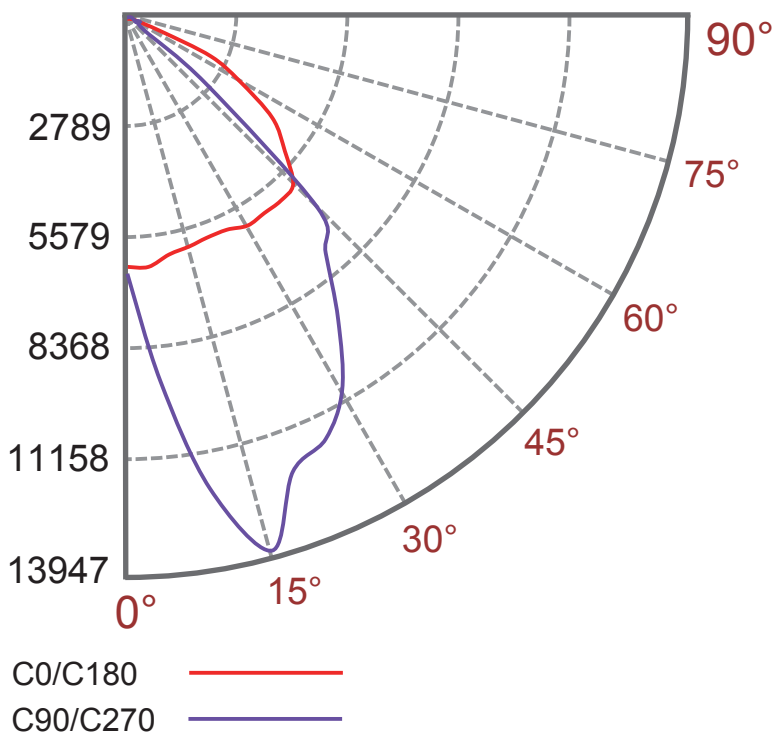
* Test data @ 25°C

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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	58°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

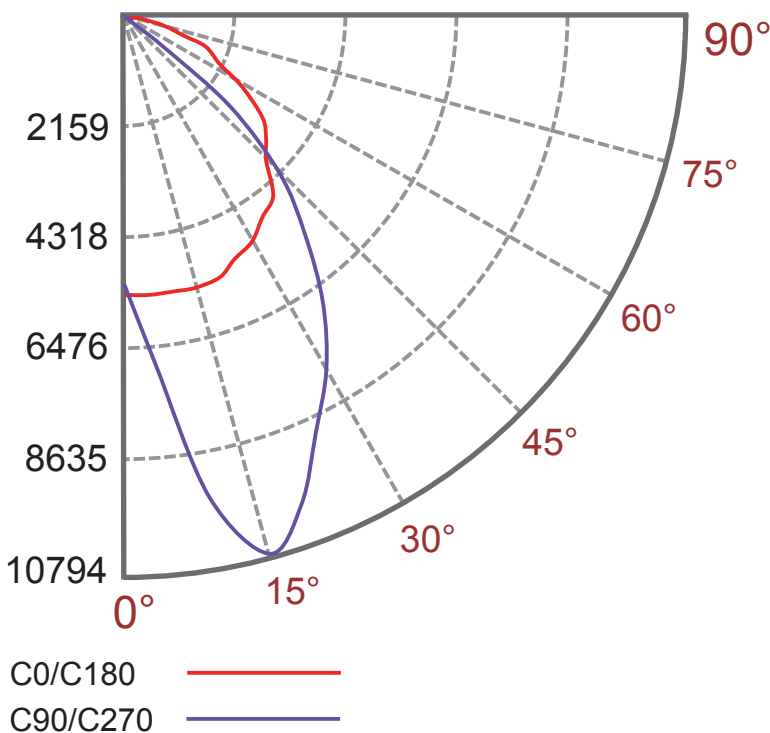
* Test data @ 25°C

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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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	54°C
L70 Rating @ T _a 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

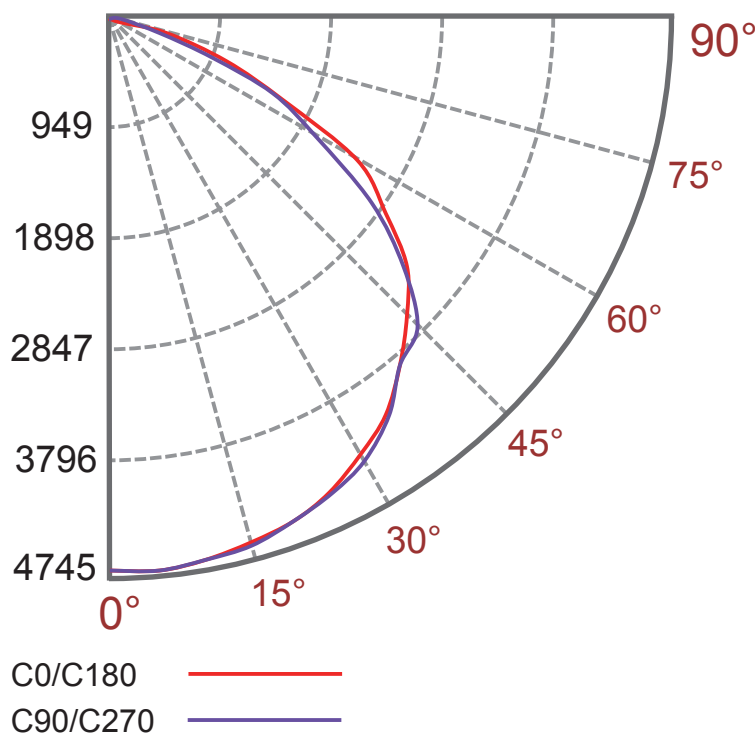
* Test data @ 25°C

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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	54°C
L70 Rating @ T _a 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

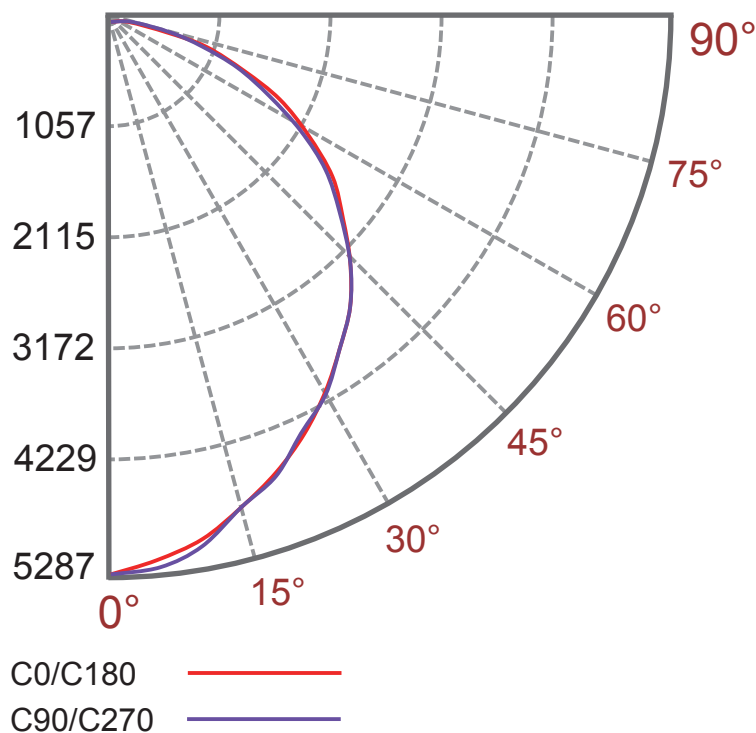
* Test data @ 25°C

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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	54°C
L70 Rating @ T _a 25°C	> 180 K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

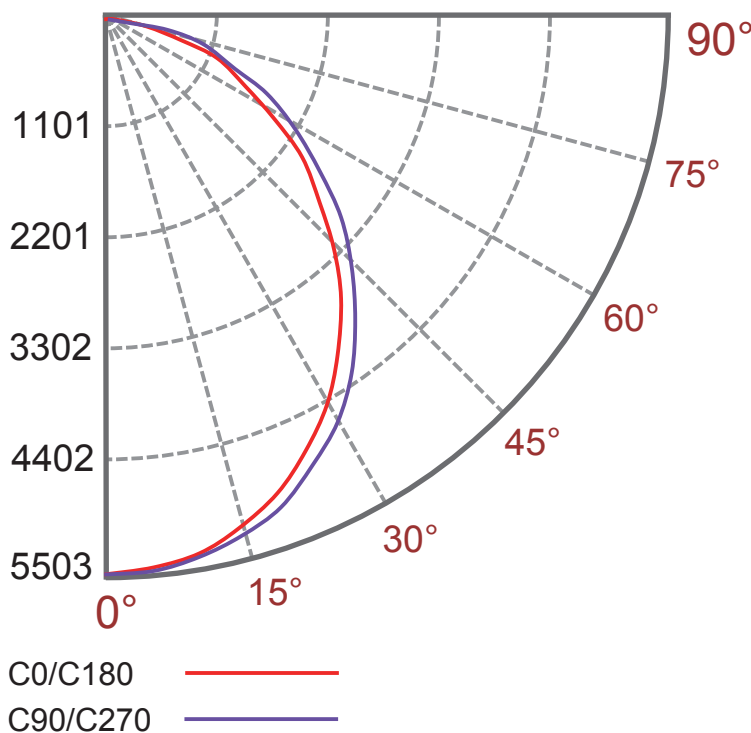
* Test data @ 25°C

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

ILX 450 Series

Extreme Application LED 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 _s - Solder Point Temp *	54°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 65°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA; optional 20kV / 10kA (L - L, L-G)

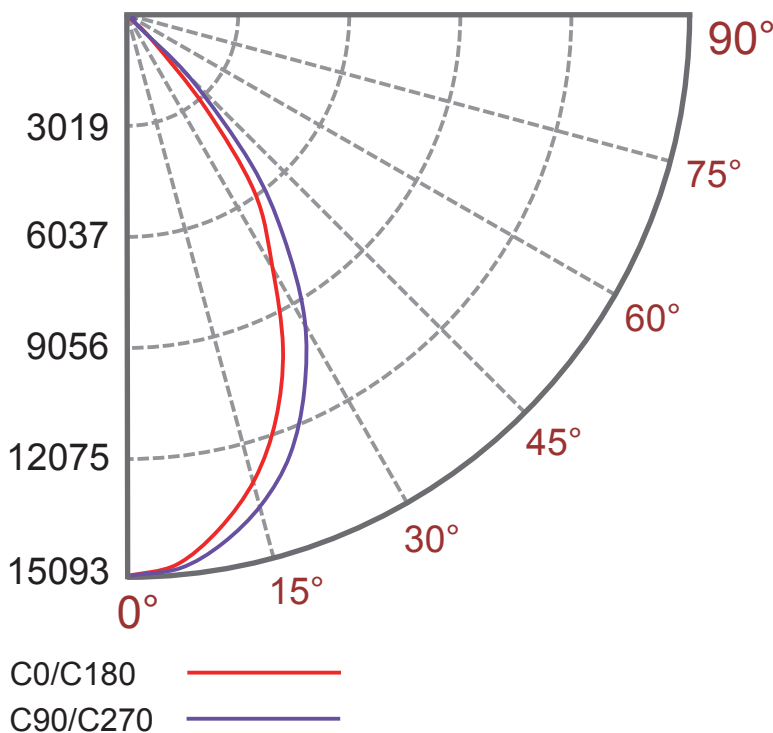
* Test data @ 25°C

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