

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 programmable **RF Wireless Smart 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



ILX 450 Series

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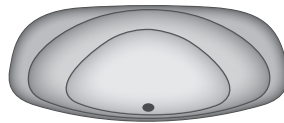
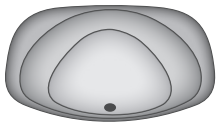
Optics Options

02 - Type II / wall mount & perimeter lighting

S - Short

M - Medium

L - Long

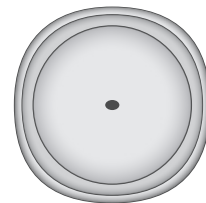
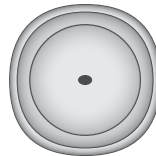
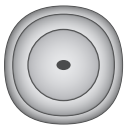


R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood application

S - Short

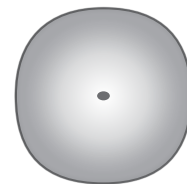
M - Medium

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 - 75Watt

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

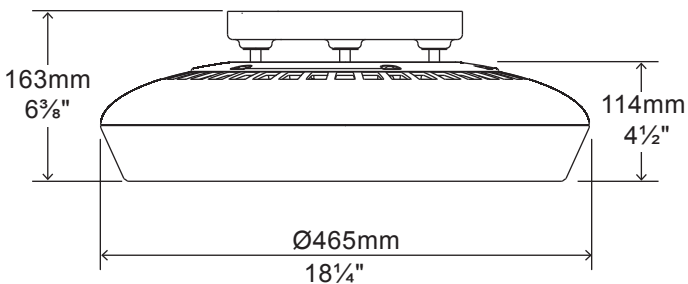
* SST mount is standard, please see mounting options accessories for details.

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
ILX45075UV-R5M-50DS-SST	LED Industrial Light / 75Watt / 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 22.5 cm 19 5/8 x 19 5/8 x 8 7/8 in	12.5 kg 27.5 lbs

ILX 450 Series

Extreme Application LED 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 ~ 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



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

ILX 450 Series

Extreme Application LED 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 ~ 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



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

ILX 450 Series

Extreme Application LED 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 ~ 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)

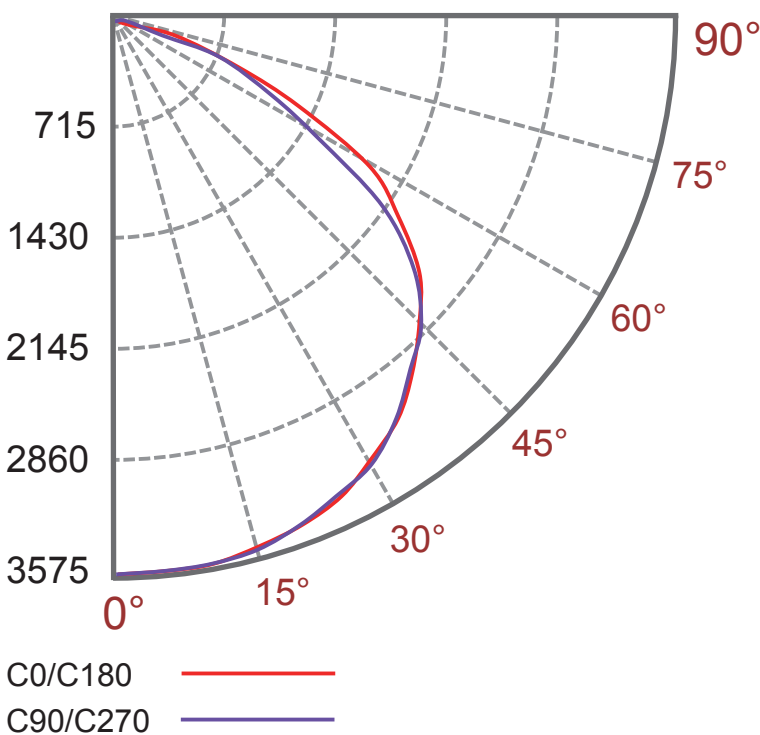
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	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

ILX 450 Series

Extreme Application LED 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 ~ 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)

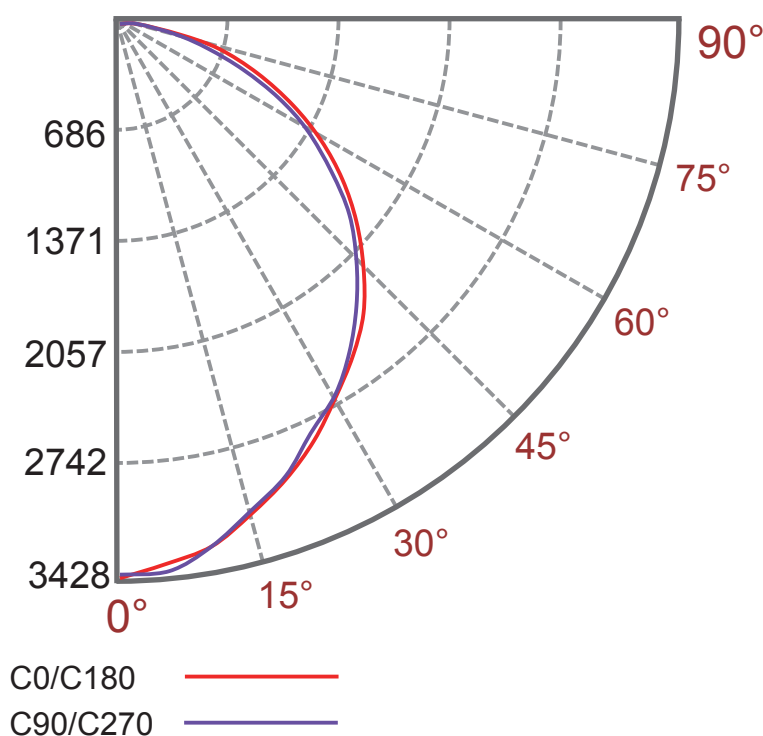
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	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

ILX 450 Series

Extreme Application LED 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 ~ 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)

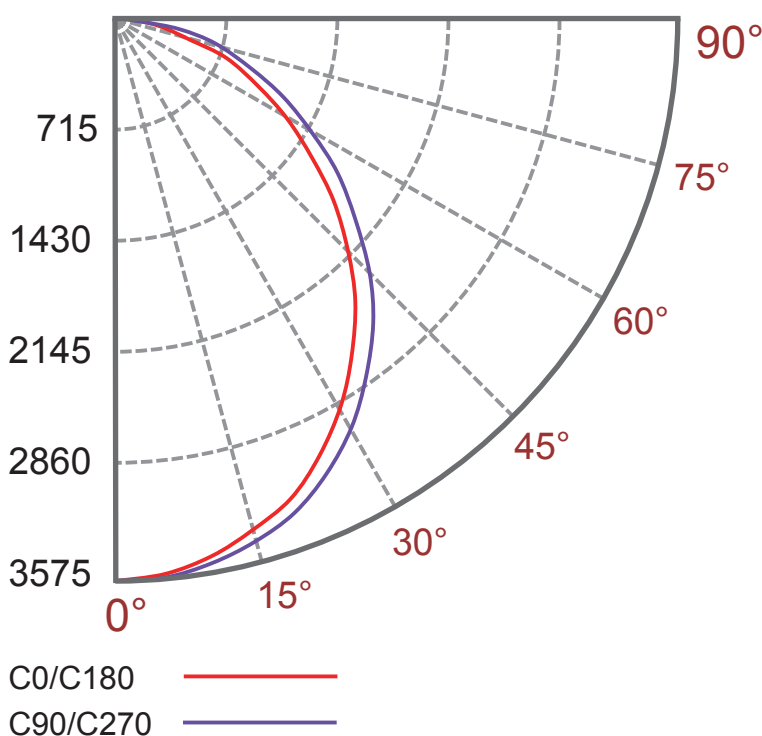
* Test data @ 25°C

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NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	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

ILX 450 Series

Extreme Application LED 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 ~ 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)

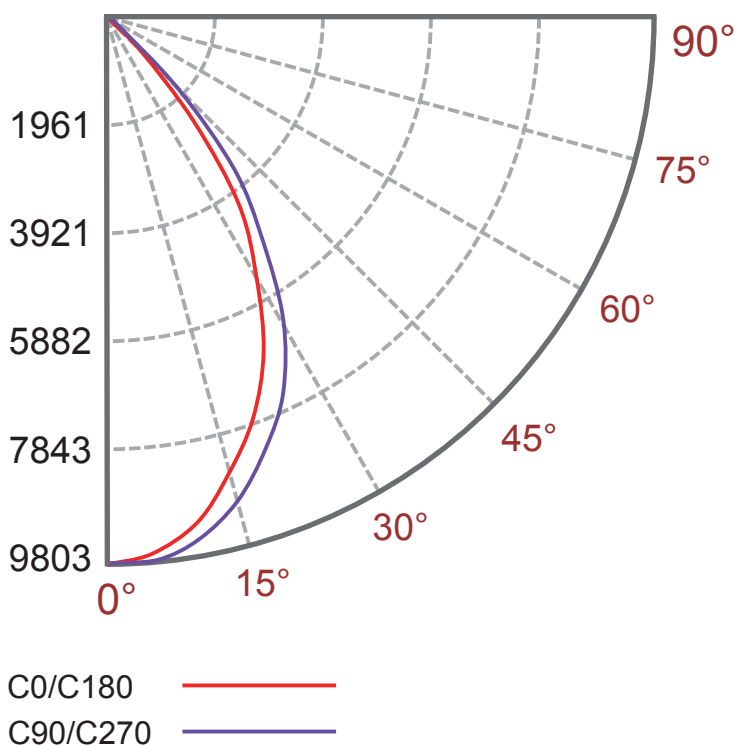
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	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