ILX 450 Series

Extreme Application LED Lighting


10 YEAR LIMITED WARRANTY

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 160,000 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**
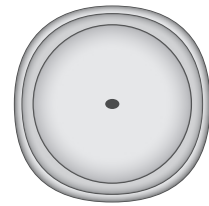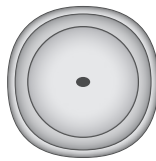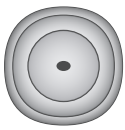
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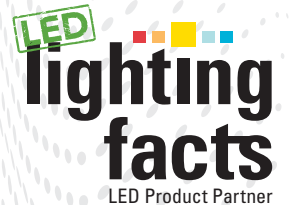
LED lighting facts
LED Product Partner

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
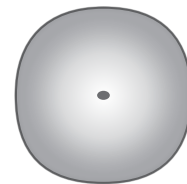
S5 - Type V Square / symmetric for high-bay, isle, high-mast and flood application
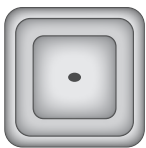
S - Short	M - Medium	L - Long

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 - 185Watt

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
ILX45185UV-R5M-50DS-SST	LED Industrial Light / 185Watt / 90-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable with Motion Sensor / Snap & Turn

External Dimensions

217mm 8½"
168mm 6⅝"
Ø465mm 18¼"
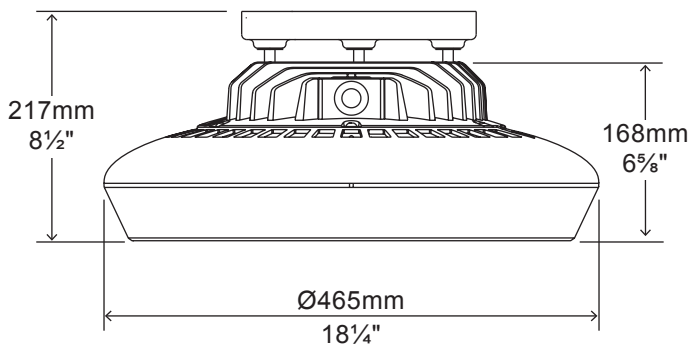
Packaging Information

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 28 cm 19⅝ x 19⅝ x 11 in	16.5 kg 36.3 lbs

Specification - Type V Round Medium

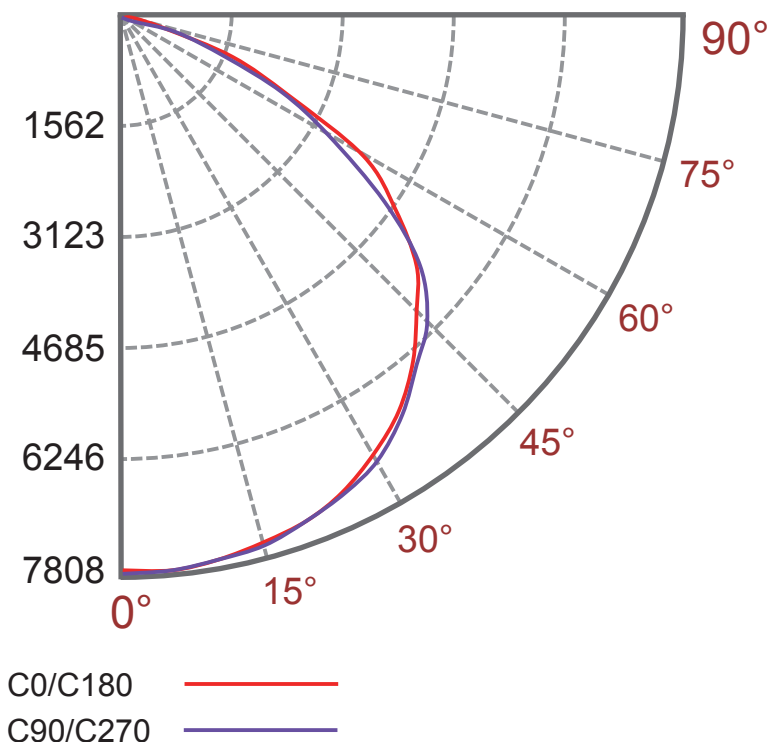|	
Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	185 Watt
Lumens (Total) *	22,940 Lumens
Efficacy *	124 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@590mA
CRI	80
T_J - Junction Temp (T_a @ 25°C)	63°C
L70 Rating @ T_a 25°C	> 170K 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 @ 25ºC
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	6331.4	27.6%
0-40	10621.2	46.3%
0-60	19430.2	84.7%
0-90	22940.0	100.0%
0-180	22940.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	486	45
5m / 16.5ft	311	29
6m / 20ft	216	20
7m / 23ft	159	15
8m / 26ft	121.5	11
9m / 29.5ft	96	9
10m / 33ft	78	7

ILX 450 Series

Extreme Application LED Lighting - 185Watt - Type V Round

Specification - Type V Round Long

|	
Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	185 Watt
Lumens (Total) *	19,980 Lumens
Efficacy *	108 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@590mA
CRI	80
T_J - Junction Temp (T_a @ 25°C)	63°C
L70 Rating @ T_a 25°C	> 170K 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
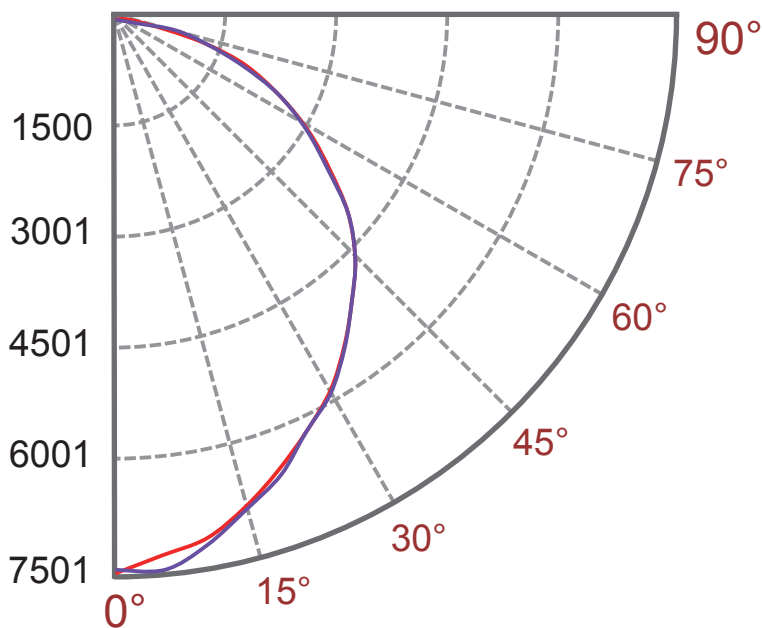
C0/C180 ———
C90/C270 ———

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5534.5	27.7%
0-40	8971.0	44.9%
0-60	15704.3	78.6%
0-90	19940.0	99.8%
0-180	19980.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	468	43.5
5m / 16.5ft	299.5	28
6m / 20ft	208	19
7m / 23ft	153	14
8m / 26ft	117	11
9m / 29.5ft	92.5	8.5
10m / 33ft	75	7

ILX 450 Series

Extreme Application LED Lighting - 185Watt - Type V Frosted

Specification - Type V Frosted Long

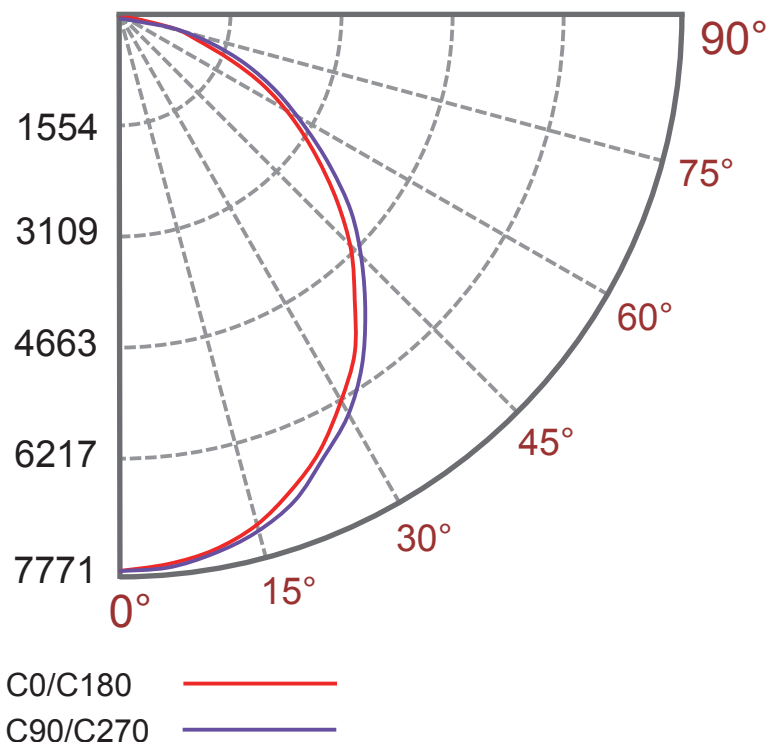|	
Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	185 Watt
Lumens (Total) *	20,165 Lumens
Efficacy *	109 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@590mA
CRI	80
T_J - Junction Temp (T_a @ 25°C)	63°C
L70 Rating @ T_a 25°C	> 170K 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 @ 25ºC
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	5928.5	29.4%
0-40	9578.4	47.5%
0-60	16273.2	80.7%
0-90	20144.8	99.9%
0-180	20165.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	485.5	45
5m / 16.5ft	311	29
6m / 20ft	216	20
7m / 23ft	158.5	15
8m / 26ft	121	11
9m / 29.5ft	96	9
10m / 33ft	78	7

ILX 450 Series

Extreme Application LED Lighting - 185Watt - Type V Square

Specification - Type V Square Short

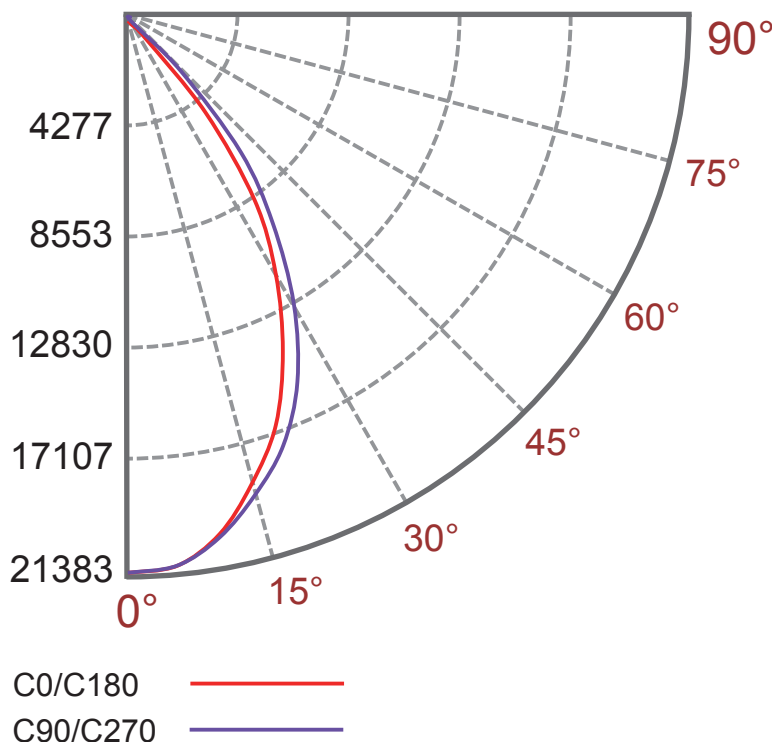|	
Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	185 Watt
Lumens (Total) *	22,940 Lumens
Efficacy *	124 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@590mA
CRI	75
T_J - Junction Temp (T_a @ 25°C)	67°C
L70 Rating @ T_a 25°C	> 160K 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 @ 25ºC
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	13832.8	60.3%
0-40	19751.3	86.1%
0-60	22894.1	99.8%
0-90	22917.1	99.9%
0-180	22940.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	1335	124
5m / 16.5ft	854.5	79
6m / 20ft	593.5	55
7m / 23ft	436	40.5
8m / 26ft	334	31
9m / 29.5ft	264	24.5
10m / 33ft	214	20