ILX450 Series

LED Tunnel Lighting

Advantages of ILX450

- IP69K rated tri-proof (dust, vapor & water-proof) LED tunnel light
- Available in 100 ~ 220 watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 170 lm / W
- Superior craftsmanship using high grade raw materials
- Proprietary reflector optics enabling glare-free uniform lighting and eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Industrial grade powder coating and copper-free aluminum build for complete corrosion resistance
- Marine-rated stainless steel fasteners and trimmings
- Optional wireless smart control system enabling greater savings and flexibility
- Available in various optics with versatile mounting options for all tunnel applications
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 150,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA

Years Warranty

Smart Control

Wet Location

Pressure Washable

Impact Resistance

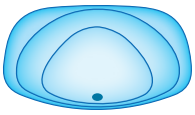
Applications

- Road Tunnels
- Utility Tunnels
- Underpasses
- Undersea Tunnels
- Metro Line Tunnels
- Tunnel Boring

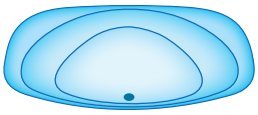
Optic Options

02 - Type II / wall mount & perimeter lighting applications

S - Short

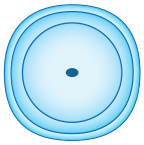


M - Medium



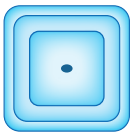
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

M - Medium



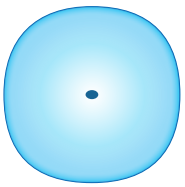
S5 - Type V Square / symmetric for high-bay, aisle, high-mast and flood applications

S - Short



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

L - Long



Mounting Options

Pendant Mounting System

Part Number	Part Description
PDS-ILX45	Pendant Mounting Interface / 3/4” Pipe Not Included

Snap & Turn Surface Mounting System

Part Number	Part Description
SST-IL45-B	Snap & Turn Surface Mount Bracket / Steel Black

Swivel Mounting System

Part Number	Part Description
SWL-ILX45-SS	Variable Angle Swivel Mounting Bracket / Stainless Steel

ILX450 Series

LED Tunnel Lighting - 220Watt

Ordering Information

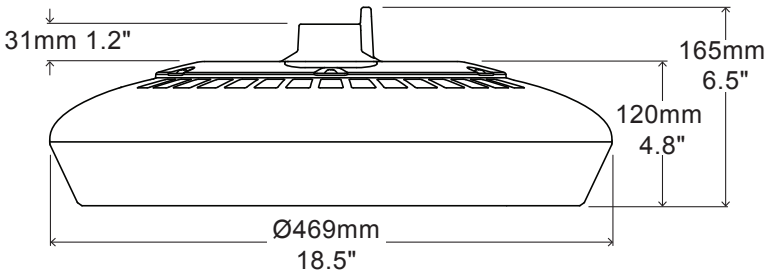
ILX45	Wattage	Voltage	–	Optics	Pitch	–	CCT	Driver & Control *	–	Mounting **
	100 = 100W 125 = 125W 150 = 150W 185 = 185W 220 = 220W	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC		02 = Type II R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	S = Short M = Medium L = Long		30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control		PDS = Pendant Mount SST = Snap & Turn Mount SWL = Swivel Mount

NOTE: Gray is the standard exterior color.
* Smart control available with ZHAGA standard receptacle module.
** PDS is the standard mounting system, with 1" NPT threaded hole.

Example

Part Number	Part Description
ILX45220UV-R5M-50DM-PDS	LED Tunnel Light / 220Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable / Pendant Mount

External Dimensions



Packaging Information

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 23 cm 19.7x 19.7 x 9 in	12.5 kg 27.5 lbs

ILX450 Series

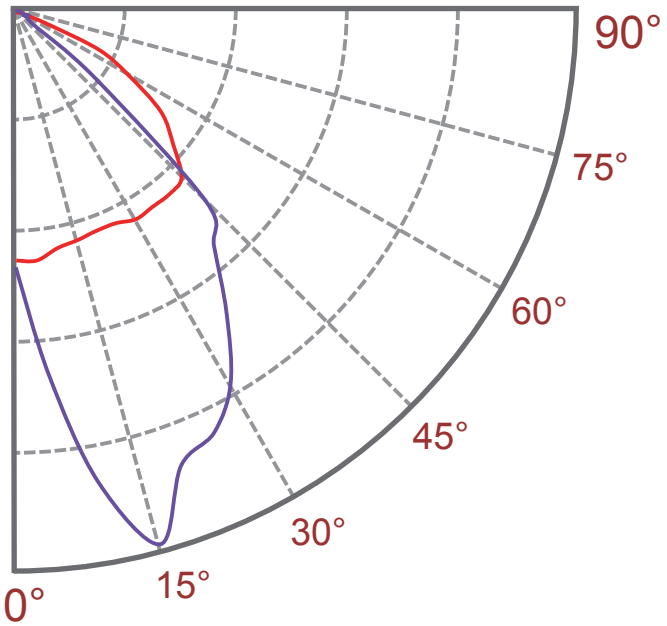
LED Tunnel Lighting - 220Watt

Specification - Type II Short

Fixture Watts	220 W
Lumens (Total)*	28,600 lm
Efficacy *	130 lm / W
Number of LEDs & Driving Current	96@730mA
T_S - Solder Point Temp *	68°C / 154°F
L70 Rating @ T_a 25°C	>150K hours
Operational Temperature (T_a)	-40° ~ 65°C / -40° ~ 149°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture
Transient Surge Protection	6kV / 3kA (L-L, L-G) Optional 10kV / 5kA

* Test data @ Ta: 25°C. All lumen values have ±7% tolerance
NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	11,612	40.6%
0-40	18,304	64.0%
0-60	27,542	96.3%
0-90	28,571	99.9%
0-180	28,600	100.0%

ILX450 Series

LED Tunnel Lighting - 220Watt

Specification - Type II Medium

Fixture Watts	220 W
Lumens (Total)*	27,500 lm
Efficacy *	125 lm / W
Number of LEDs & Driving Current	96@730mA
T_S - Solder Point Temp *	68°C / 154°F
L70 Rating @ T_a 25°C	>150K hours
Operational Temperature (T_a)	-40° ~ 65°C / -40° ~ 149°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
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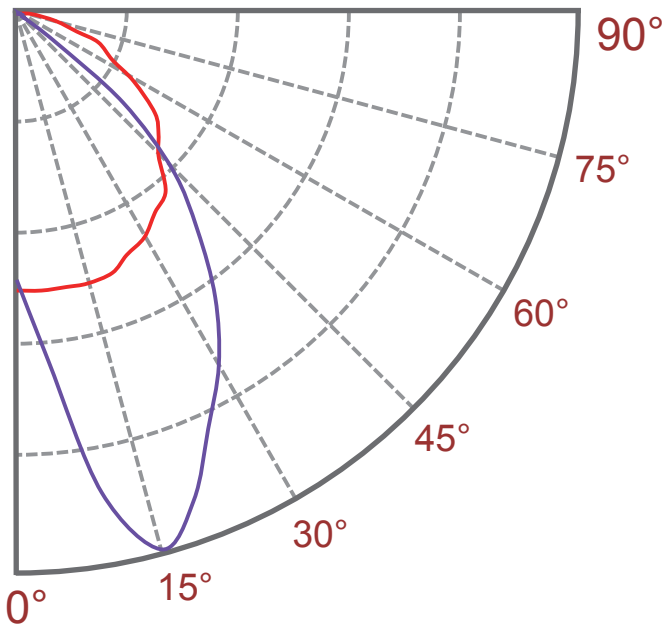
Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	9,240	33.6%
0-40	14,630	53.2%
0-60	23,485	85.4%
0-90	27,418	99.7%
0-180	27,500	100.0%

ILX450 Series

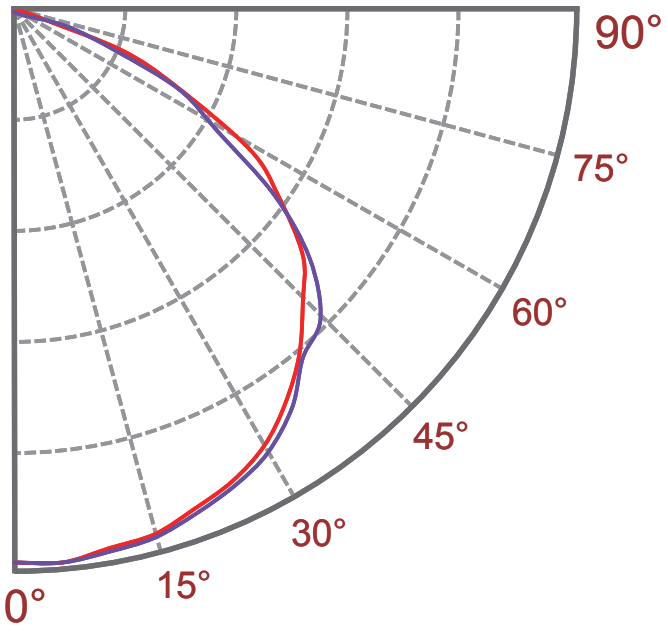
LED Tunnel Lighting - 220Watt

Specification - Type V Round Medium

Fixture Watts	220 W
Lumens (Total)*	32,340 lm
Efficacy *	147 lm / W
Number of LEDs & Driving Current	112@625mA
T_S - Solder Point Temp *	66°C / 151°F
L70 Rating @ T_a 25°C	>150K hours
Operational Temperature (T_a)	-40° ~ 65°C / -40° ~ 149°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture
Transient Surge Protection	6kV / 3kA (L-L, L-G) Optional 10kV / 5kA

* Test data @ Ta: 25°C. All lumen values have ±7% tolerance
NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	8,958	27.7%
0-40	15,006	46.4%
0-60	27,424	84.8%
0-90	32,340	100.0%
0-180	32,340	100.0%

ILX450 Series

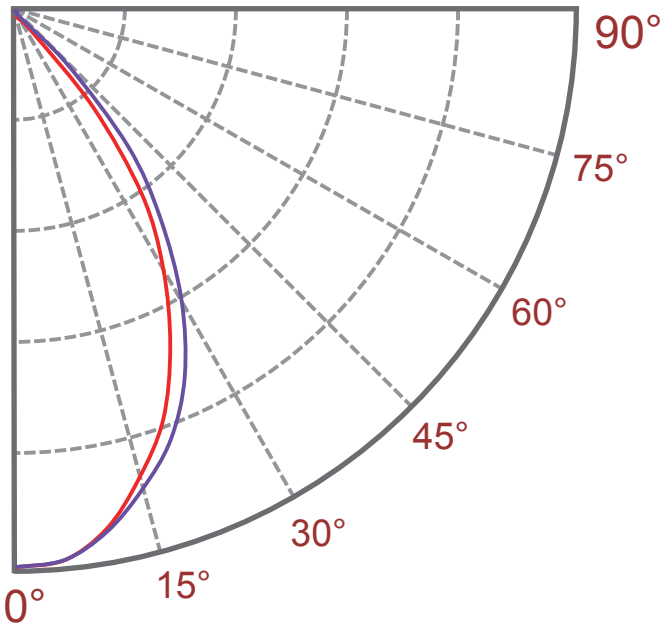
LED Tunnel Lighting - 220Watt

Specification - Type V Square Short

Fixture Watts	220 W
Lumens (Total)*	30,360 lm
Efficacy *	138 lm / W
Number of LEDs & Driving Current	112@625mA
T_S - Solder Point Temp *	68°C / 154°F
L70 Rating @ T_a 25°C	>150K hours
Operational Temperature (T_a)	-40° ~ 65°C / -40° ~ 149°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture
Transient Surge Protection	6kV / 3kA (L-L, L-G) Optional 10kV / 5kA

* Test data @ Ta: 25°C. All lumen values have ±7% tolerance
NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	18,307	60.3%
0-40	26,140	86.1%
0-60	30,299	99.8%
0-90	30,330	99.9%
0-180	30,360	100.0%

ILX450 Series

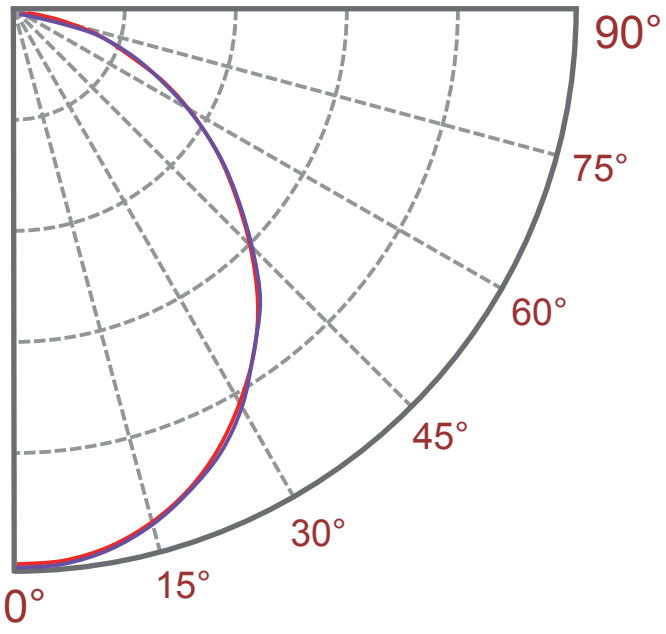
LED Tunnel Lighting - 220Watt

Specification - Type V Frosted Long

Fixture Watts	220 W
Lumens (Total)*	27,500 lm
Efficacy *	125 lm / W
Number of LEDs & Driving Current	112@625mA
T_S - Solder Point Temp *	67°C / 153°F
L70 Rating @ T_a 25°C	>150K hours
Operational Temperature (T_a)	-40° ~ 65°C / -40° ~ 149°F
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC
LED Model	Lumileds / Nichia / Cree
CRI	>75
Lighting Control	Dimmable (0-10V, PWM) / Smart Control
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture
Transient Surge Protection	6kV / 3kA (L-L, L-G) Optional 10kV / 5kA

* Test data @ Ta: 25°C. All lumen values have ±7% tolerance
NOTE: Light intensities measured directly below fixture

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	8,058	29.3%
0-40	13,008	47.3%
0-60	22,138	80.5%
0-90	27,445	99.8%
0-180	27,500	100.0%

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