ILX450 Series

LED Food Processing Lighting

Advantages of ILX450

- NSF-certified LED food & beverage processing light
- Available in 100 ~ 220 watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 170 lm / W
- Proprietary wide-angle optics enabling glare-free, uniform lighting for horizontal and vertical surfaces
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Hazardous area and high temperature rated with an operational temperature of -40 ~ +65°C (-40 ~ +149°F)
- IP69K-rated tri-proof (dust, vapor & water-proof) light fixture, high pressure washable up to 1800PSI
- 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 flexibility
- Available with versatile mounting options for various food processing operations
- 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

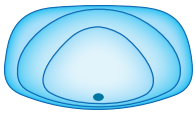
Applications

- Canneries
- Meat Packing Plants
- Slaughterhouses
- Rendering Plants
- Chicken Farms
- Sugar Mills
- Dairy Processing Facilities
- Bottling Plants & Breweries

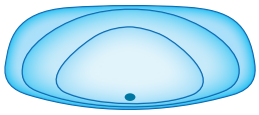
Optic Options

02 - Type II / wall mount & perimeter lighting applications

S - Short

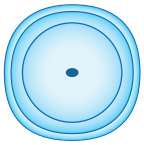


M - Medium



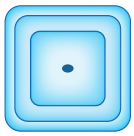
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

M - Medium



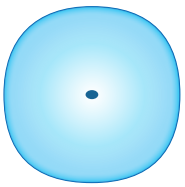
S5 - Type V Square / symmetric for high-bay, aisle, high-mast and flood applications

S - Short



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

L - Long



ILX450 Series

LED Food Processing Lighting

Mounting Options

Snap & Turn Surface Mounting System

Part Number	Part Description
SST-ILX45-SS	Snap & Turn Surface Mount Bracket / Stainless Steel

Swivel Mounting System

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

Pendant Mounting System

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

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

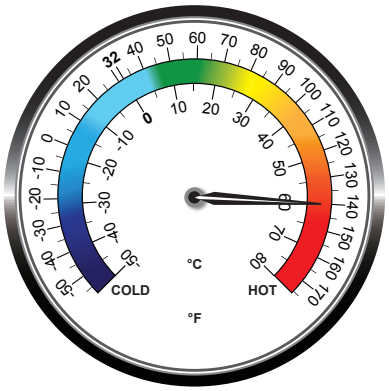
Part Number	Part Description
W90-ILX45-45B	90° Wall Mount Elbow Bracket / 18" (45cm) / Galvanized Steel Black
W90-ILX45-75B	90° Wall Mount Elbow Bracket / 30" (75cm) / Galvanized Steel Black

Tandem Mounting System

Part Number	Part Description
TMS-ILX45-45SS	Tandem Mounting System / 18" (45cm) / Stainless Steel
TMS-ILX45-90SS	Tandem Mounting System / 36" (90cm) / Stainless Steel

Thermal Management

The new ILX450 LED drivers are designed specifically for extreme application lighting that requires high ambient operating temperatures. It utilizes the latest topology in electronic circuitry design with state of the art military and industrial grade components. The LED driver is encapsulated with thermal potting into a dedicated heat sink for better thermal performance and greater flexibility for service and maintenance. The ILX450 LED driver module delivers an outstanding 95% efficiency and is designed to last over 60,000 hours in harsh environments with high operating ambient temperatures.



System Watts	T6 Temperature Code Ambient Temperature Range		T5 Temperature Code Ambient Temperature Range		T4a Temperature Code Ambient Temperature Range	
100 W	-40°F ~ 140°F	-40°C ~ 60°C	-40°F ~ 149°F	-40°C ~ 65°C		
120 W	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 149°F	-40°C ~ 65°C		
150 W	-40°F ~ 122°F	-40°C ~ 50°C	-40°F ~ 149°F	-40°C ~ 65°C		
185 W	-40°F ~ 113°F	-40°C ~ 45°C	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 149°F	-40°C ~ 65°C
220 W	-40°F ~ 113°F	-40°C ~ 45°C	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 149°F	-40°C ~ 65°C

10 Years Warranty

Smart Control

IP69K Wet Location

Pressure Washable

IK10 Impact Resistance

High Temperature

Food Processing

ILX450 Series

LED Food Processing Lighting - 220Watt

Ordering Information

ILX45 – Wattage | Voltage – Optics | Pitch – CCT | Driver & Control * – Mounting **

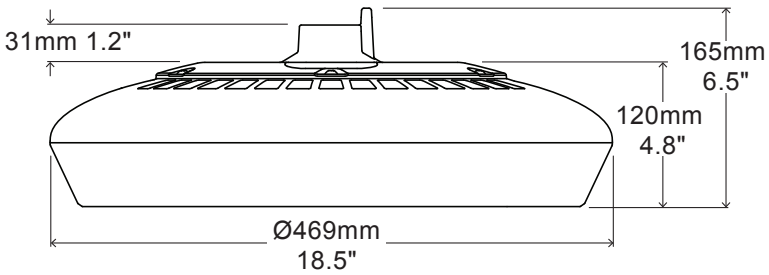
Wattage	Voltage	Optics	Pitch	CCT	Driver & Control *	Mounting **
100 = 100W 125 = 125W 150 = 150W 185 = 185W 220 = 220W	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC	02 = Type II R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	S = Short M = Medium L = Long	30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control	PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount SWL = Swivel Mount W90 = 90° Wall Mount TMS = Tandem 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 Food Processing 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

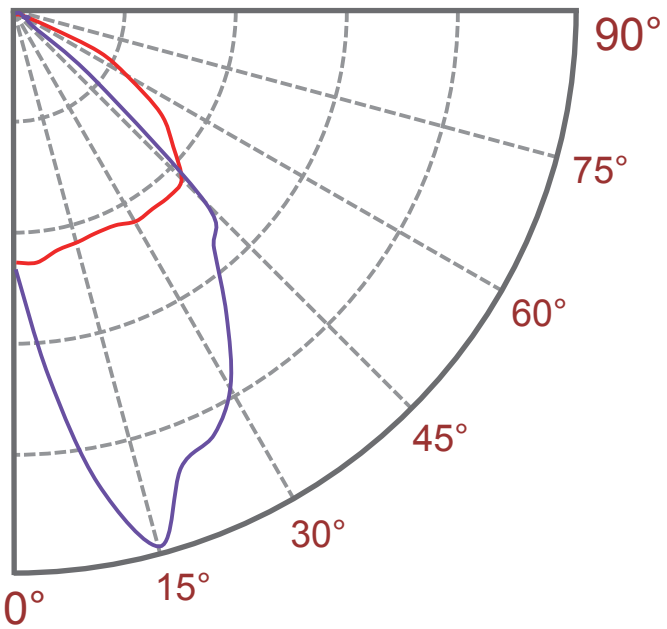
LED Food Processing Lighting - 220Watt

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	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* 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

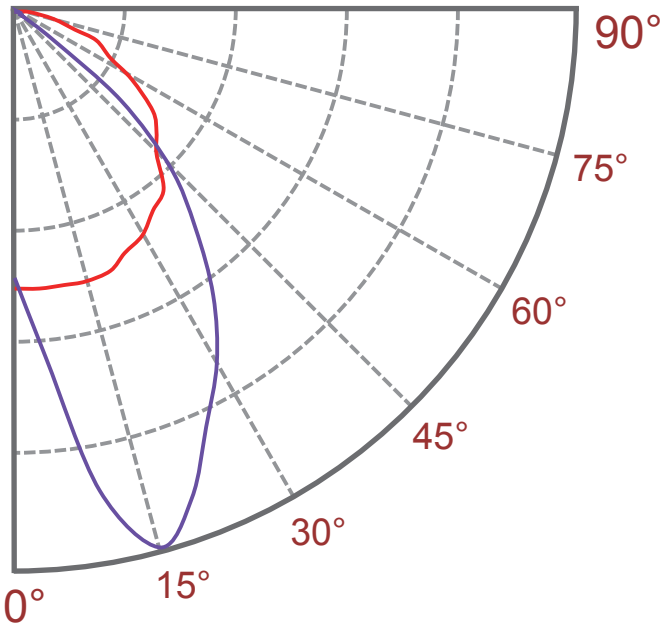
LED Food Processing Lighting - 220Watt

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
Warranty	10-Year Limited
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* 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	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

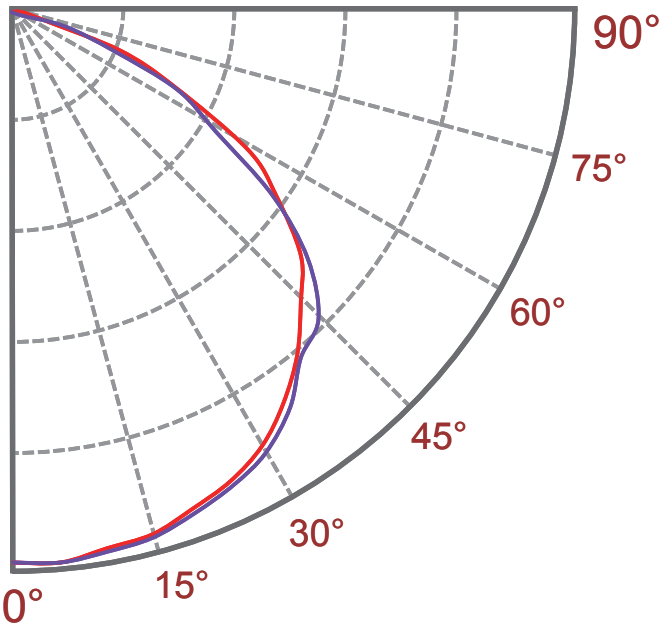
LED Food Processing Lighting - 220Watt

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	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* 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

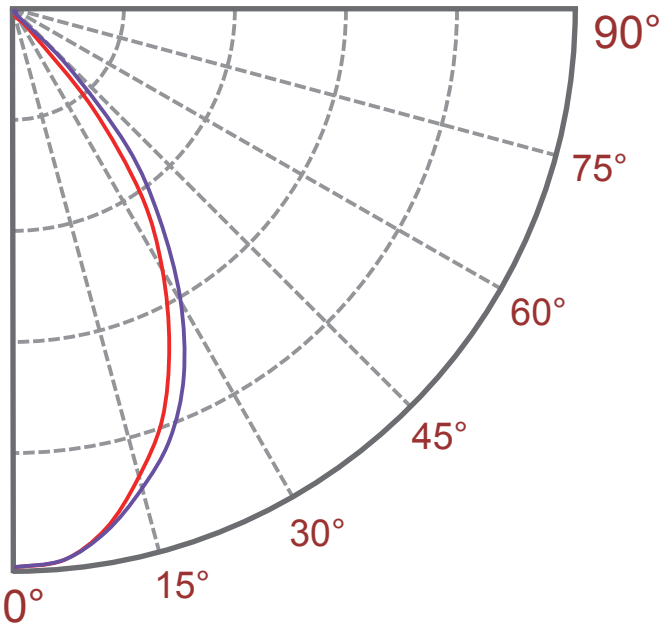
LED Food Processing Lighting - 220Watt

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	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* 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

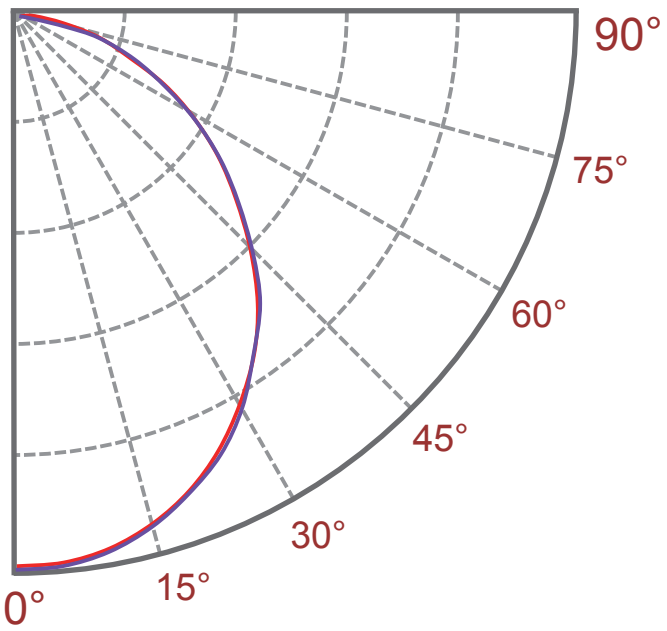
LED Food Processing Lighting - 220Watt

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	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA

* 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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