

# 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

# ILX450 Series

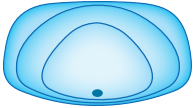
## LED Food Processing Lighting

### Optic Options

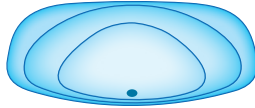
#### 02 - Type II / wall mount & perimeter lighting applications

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**S - Short**



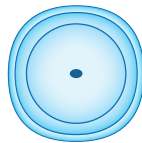
**M - Medium**



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

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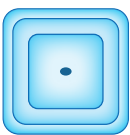
**M - Medium**



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

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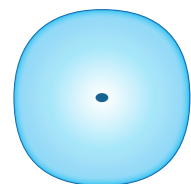
**S - Short**



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

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**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

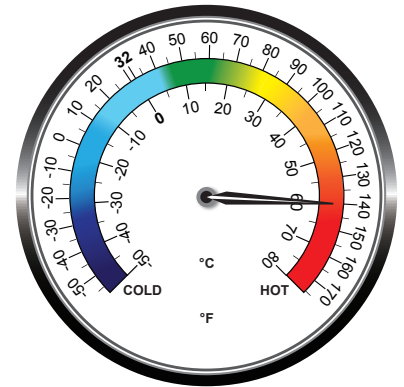
Part Number	Part Description
TMS-ILX45-45SS	Tandem Mounting System / 18" (45cm) / Stainless Steel
TMS-ILX45-90SS	Tandem Mounting System / 36" (90cm) / Stainless Steel

# ILX450 Series

## LED Food Processing Lighting

### 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	
	°F	°C	°F	°C	°F	°C
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



Years Warranty



Smart Control



Wet Location



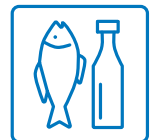
Pressure Washable



Impact Resistance



High Temperature



Food Processing

# ILX450 Series

LED Food Processing Lighting - 185Watt

## 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 CH4 = 4 Chain Mount SWL = Swivel Mount W90 = 90° Wall Mount TMS = Tandem Mount

NOTE: Gray is the standard exterior color.

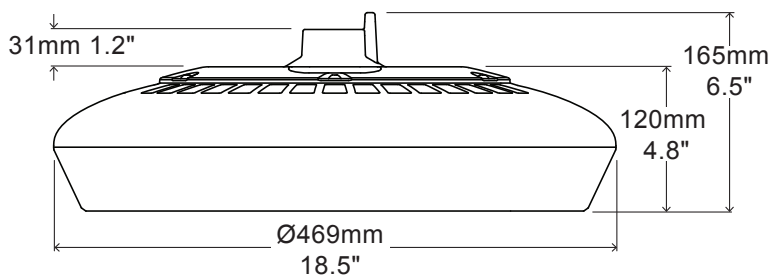
\* Smart control available with ZHAGA standard receptacle module.

\*\* PDS is the standard mounting system, with 1" NPT threaded hole.

## Example

Part Number	Part Description
ILX45185UV-R5M-50DM-PDS	LED Food Processing Light / 185Watt / 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

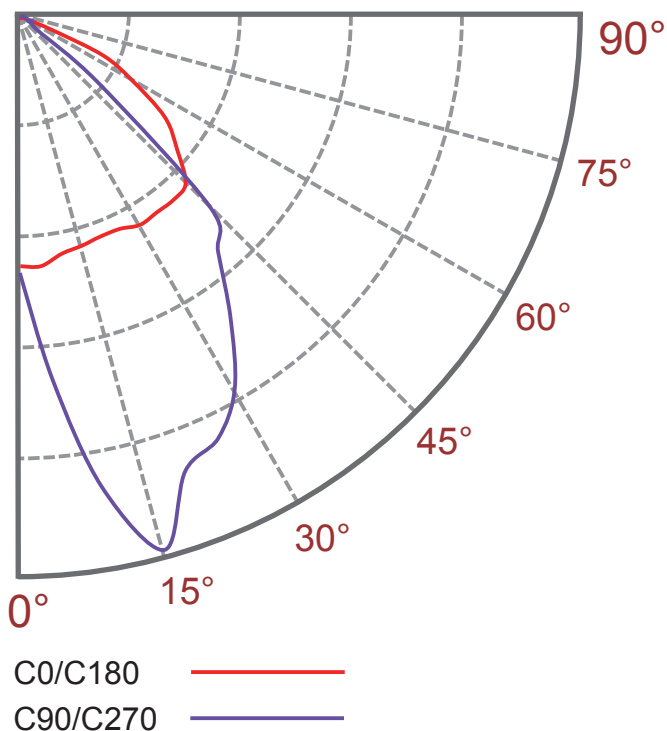
LED Food Processing Lighting - 185Watt

## Specification - Type II Short

Fixture Watts	185 W
Lumens (Total)*	25,160 lm
Efficacy *	136 lm / W
Number of LEDs & Driving Current	96@625mA
T <sub>s</sub> - Solder Point Temp *	64°C / 147°F
L70 Rating @ T <sub>a</sub> 25°C	>160K hours
Operational Temperature (T <sub>a</sub> )	-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 @ T<sub>a</sub>: 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	10,215	40.6%
0-40	16,102	64.0%
0-60	24,229	96.3%
0-90	25,135	99.9%
0-180	25,160	100.0%

# ILX450 Series

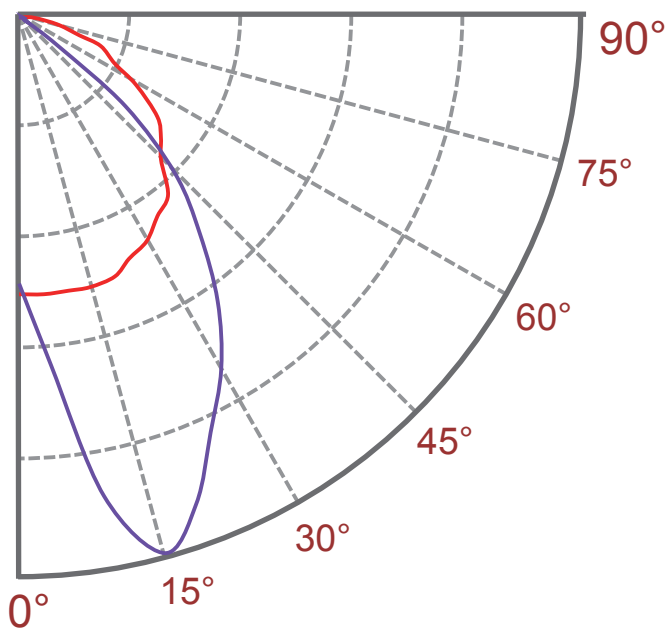
LED Food Processing Lighting - 185Watt

## Specification - Type II Medium

Fixture Watts	185 W
Lumens (Total)*	24,235 lm
Efficacy *	131 lm / W
Number of LEDs & Driving Current	96@625mA
T <sub>s</sub> - Solder Point Temp *	64°C / 147°F
L70 Rating @ T <sub>a</sub> 25°C	>160K hours
Operational Temperature (T <sub>a</sub> )	-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 @ T<sub>a</sub>: 25°C. All lumen 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	8,143	33.6%
0-40	12,893	53.2%
0-60	20,697	85.4%
0-90	24,162	99.7%
0-180	24,235	100.0%

# ILX450 Series

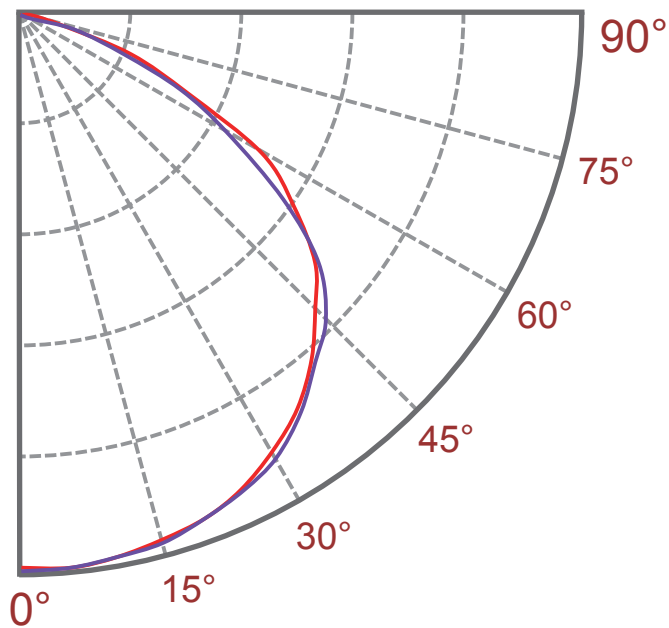
LED Food Processing Lighting - 185Watt

## Specification - Type V Round Medium

Fixture Watts	185 W
Lumens (Total)*	27,750 lm
Efficacy *	150 lm / W
Number of LEDs & Driving Current	112@535mA
T <sub>s</sub> - Solder Point Temp *	61°C / 142°F
L70 Rating @ T <sub>a</sub> 25°C	>160K hours
Operational Temperature (T <sub>a</sub> )	-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 @ T<sub>a</sub>: 25°C. All lumen 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	7,659	27.6%
0-40	12,848	46.3%
0-60	23,504	84.7%
0-90	27,750	100.0%
0-180	27,750	100.0%



# ILX450 Series

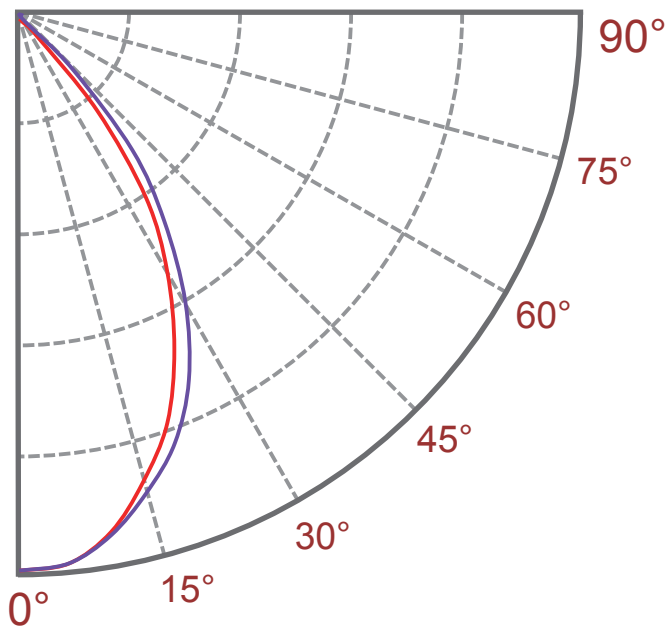
LED Food Processing Lighting - 185Watt

## Specification - Type V Square Short

Fixture Watts	185 W
Lumens (Total)*	26,085 lm
Efficacy *	141 lm / W
Number of LEDs & Driving Current	112@535mA
T <sub>s</sub> - Solder Point Temp *	62°C / 144°F
L70 Rating @ T <sub>a</sub> 25°C	>160K hours
Operational Temperature (T <sub>a</sub> )	-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 @ T<sub>a</sub>: 25°C. All lumen 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	15,729	60.3%
0-40	22,459	86.1%
0-60	26,033	99.8%
0-90	26,059	99.9%
0-180	26,085	100.0%

# ILX450 Series

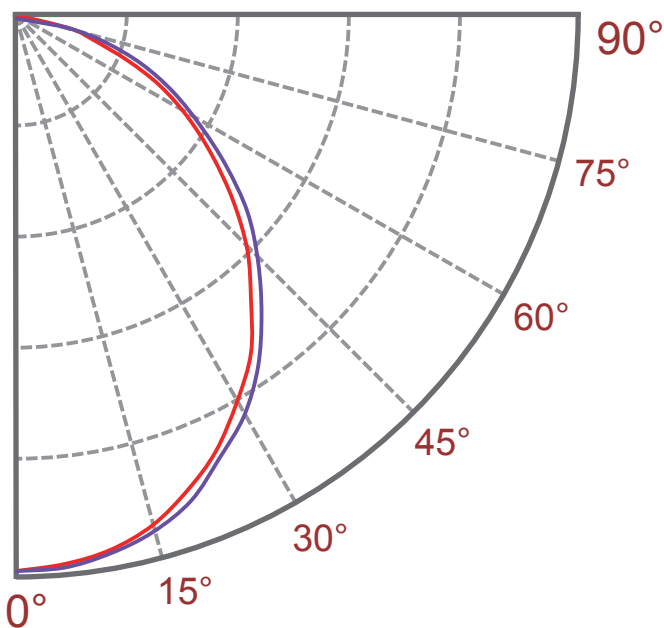
LED Food Processing Lighting - 185Watt

## Specification - Type V Frosted Long

Fixture Watts	185 W
Lumens (Total)*	23,680 lm
Efficacy *	128 lm / W
Number of LEDs & Driving Current	112@535mA
T <sub>s</sub> - Solder Point Temp *	61°C / 142°F
L70 Rating @ T <sub>a</sub> 25°C	>160K hours
Operational Temperature (T <sub>a</sub> )	-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 @ T<sub>a</sub>: 25°C. All lumen 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	6,962	29.4%
0-40	11,248	47.5%
0-60	19,110	80.7%
0-90	23,656	99.9%
0-180	23,680	100.0%