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# **Company Profile**

Light Emitting Designs is a world leading manufacturer of high-quality LED luminaires for heavy industrial applications. Designed and engineered at our headquarters in United States, our sales and marketing offices span across all five continents.

Our patented advanced technologies deliver ultra-reliable and efficient lighting fixtures for all applications of the industrial sector. Light Emitting Designs product line is tailored to provide flexible lighting solutions for the most demanding environments such as hazardous location, food & beverage processing, and corrosive areas. From our flagship heavy Industrial High-Bays to our Corrosion Resistant fixtures, Light Emitting Designs offers the most versatile mounting and optical choices in the industry.

Within the past 20 years, Light Emitting Designs fixtures have maximized the quality and productivity in heavy industrial working environments, while reducing energy and maintenance costs. With an industry leading track record of quality and warranty from thousands of satisfied customers, Light Emitting Designs is here to help you choose the right lighting solution to meet your needs.





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# HAZARDOUS AREA LINEAR LED LUMINARE



# **LX Series**

LED Hazardous Area Linear Lighting



### **Product Information**

The LX Series is a high efficacy, durable LED linear light designed to withstand the harsh conditions found in oil & gas and mining operations. This IP69K-rated tri-proof (water, vapor & dust-proof) LED linear light is ideal for applications that have a high concentration of airborne particulate matter, such as:

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms

- Sub-Surface Mineshafts
- Conveyor Belts
- Ball / Tube Mill Facilities
- Tunnel Boring

The LX Series is available in flexible lengths and wattages ranging from 20 ~ 120 Watt and provides an ultra-wide 155° angle glare free uniform lighting with exceptional horizontal and vertical lumen distribution. Its patented thermal management system ensures long LED life with extended lumen maintenance and virtually zero fixture maintenance resulting in cost effective lighting solutions with a short ROI period. The LX Series comes with versatile mounting options and an accessible junction box for easy installation and end to end connections.

Patent No.US 10,222,052 B1 Other US and international patents pending



# LX Series

LED Hazardous Area Linear Lighting



# **Advantages of LX Series**

- Technologically advanced hazardous area LED linear light
- High efficacy fixture up to 170 lm / W
- Flexible wattages and lengths ranging from 20 ~ 120 Watt
- IP69K rated tri-proof (dust, vapor & water-proof) luminaire
- Deep anodized aircraft grade billet aluminum extruded housing
- Hard UV coated, chemical resistant polycarbonate lens cover
- Nylon 66 junction box enabling IK10 extreme impact rating
- $\bullet$  Glare free 155° wide angle optics reducing fixture count by up to 25%
- Lightweight design with accessible junction box for simplified installation
- 80CRI for exceptional color rendition
- Optional smart motion sensing with soft dimming function
- Optional all-inclusive emergency battery backup system 10 Watt / 90 minutes
- Versatile mounting options for all types of hazardous area locations
- L70 ≥ 100,000 hours with 7-year limited warranty
- Designed and engineered in the USA



Wide Angle Optics



# **Mounting Options**



# **Wiring Options**

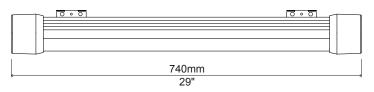
JS - Dual Junction Box with pre-drilled conduit hole on both ends of each fixture for series connection
JP - Single Junction Box with pre-drilled conduit hole on one end of each fixture for parallel connection
WS - Dual Pre-Installed Cable Glands with single cable wire on one side of each fixture for series connection

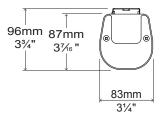


LX Series LED Hazardous Area Linear Lighting

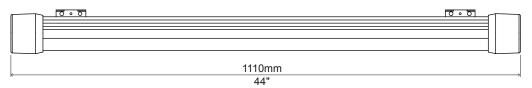
#### **External Dimensions**

#### LX0720

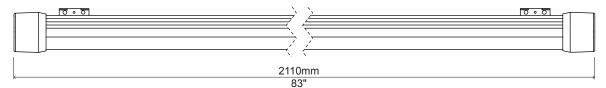




# LX1040 / LX1E40 / LX1060 / LX1E60



#### LX2080 / LX2120



# **Packaging Information**

Model	Case Quantity	Dimensions (L x W x H)	Weight
LX0720	6	83 x 36 x 21 cm 32.7 x 14 x 8.3 in	13 kg 28.6 lbs
LX1040	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1E40/1E60	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1060	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX2080	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs
LX2120	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs



### **Ordering Information**

LX	Length & Wattage*	-	Wiring**	Optics	-	ССТ	Driver & Control	-	Mounting
	0720 = 74cm / 29" / 20Watt 1040 = 111cm / 44" / 40Watt 1E40 = 111cm / 44" / 40/10Watt 1060 = 111cm / 44" / 60Watt 1E60 = 111cm / 44" / 60/10Watt 2080 = 211cm / 83" / 80Watt 2120 = 211cm / 83" / 120watt			FL = Frosted Long CM = Clear Medium		40 = 4000K	ND = Non-Dimmable DM = Dimmable MS = Motion Sensor		SMH = Surface Mount

\* LX1E emergency battery back up series is available in standard 40 and 60 Watt configurations with an all-inclusive charger, battery , indicator and test switch.

\*\*When ordering JS or JP Wiring options, please specify required conduit hole diameter.

### Example

Part Number	Part Description
LX1040-JSFL-50DM-SMH	LED Hazardous Area Light / 111cm - 44" / 40Watt / 100-277VAC / J-Box in Series / Frosted Long / 5000K Cool White / Dimmable / Surface Mount

# **Specification**

Model	LX0720	LX1040	LX1E40/60**	LX1060	LX2080	LX2120			
Fixture Watts *	20 W	40 W	10 W	60 W	80 W	120 W			
Ts - Solder Point Temp *	47°C/117°F	52°C/126°F	39°C/102°F	58°C/136°F	55°C/131°F	60°C/140°F			
L70 Rating @ T₄25°C	>110K hours	>100K hours	>140K hours	>90K hours	>100K hours	>90K hours			
Light Beam Angle			155° @ 8	0% Flux					
Operational Temperature (T <sub>a</sub> )	-40° ~ 55°C / -40° ~ 131°F								
Input Voltage	100-277VAC 50~60Hz								
LED Model			Lumileds / N	ichia / Cree					
CRI			>	80					
Lighting Control		Dimma	ble (0-10V, PW	M) / Motion Se	ensor				
Warranty			7-Year l	_imited					
Storage Temperature / Humidity		-40° ~ 8	0°C / -40° ~ 170	6°F / IP69K Ra	ted Fixture				
Transient Surge Protection			6kV / 3kA	(L-L, L-G)					

\* Test data @ Ta 25°C. All values have ±7% tolerance

\*\*LX1E emergency battery back up series is available in standard 40 and 60

Watt configurations with an all-inclusive inverter, indicator, and test switch.







HAZARDOUS AREA APPLICATION LED LUMINARE



LED Hazardous Area Lighting



# **Product Information**

The ILX280 Series is a IP69K, hazardous area location rated LED industrial / well glass luminaire designed to withstand the industry toughest environments. Its proprietary reflector optical system delivers a broad range of optical configurations with high efficacy lumen packages for illuminating areas found in:

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms

- Sub-Surface Mineshafts
- Conveyor Belts
- Ball / Tube Mill Facilities
- Tunnel Boring

The ILX280 incorporates advanced thermal technology to ensure low LED operating temperatures resulting in extended lumen maintenance and virtually zero fixture maintenance. Its durable design is available with versatile mounting options with an exceptional 10-year limited warranty.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending



# ILX280 Series LED Hazardous Area Lighting



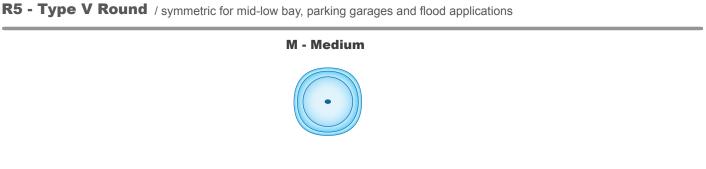
# **Advantages of ILX280**

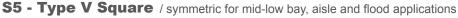
- Ultra-compact LED hazardous area location industrial / well glass light
- Available in 25 / 50 / 75 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 165 lm / W
- Proprietary reflector optics enabling glare-free uniform lighting, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- IP69K rated tri-proof (dust, vapor & water-proof) luminaire
- Hazardous area and high operational temperature rated luminaire -40 ~ +60°C (-40 ~ +140°F)
- 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 with motion & daylight sensor enabling greater savings and flexibility
- · Available with versatile mounting options for various hazardous area locations
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 145,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



LED Hazardous Area Lighting

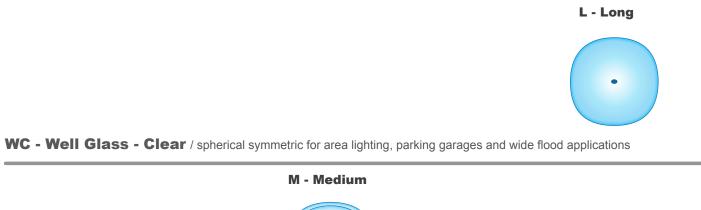
# **Optics Options**





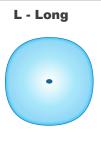








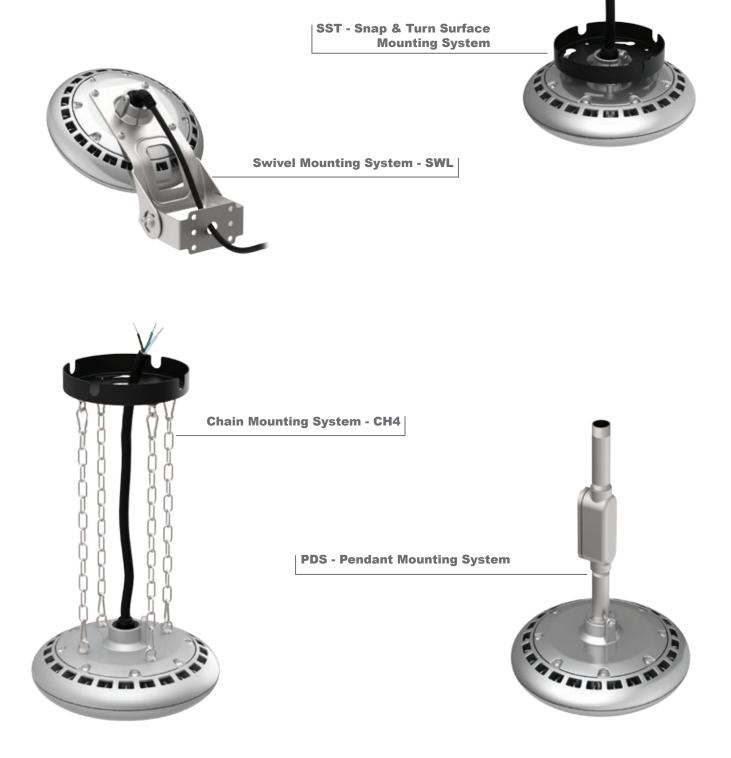
WF - Well Glass - Frosted / spherical symmetric for ultra uniform & low glare applications





LED Hazardous Area Lighting

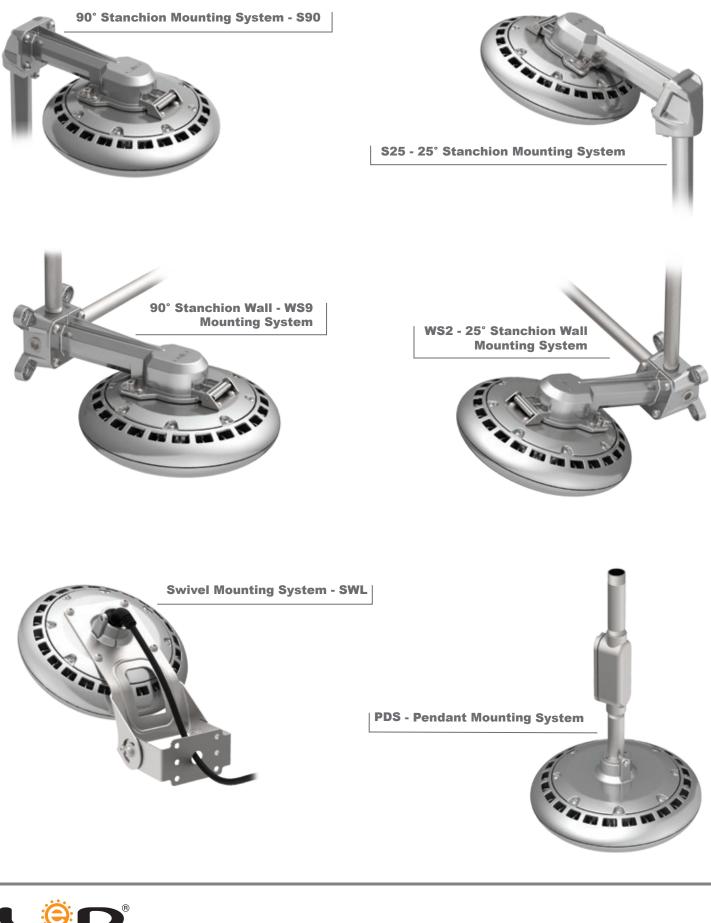
# **Mounting Options**





LED Hazardous Area Lighting

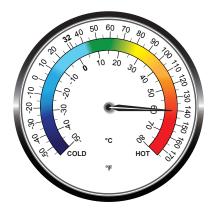
# **Mounting Options**



LED Hazardous Area Lighting

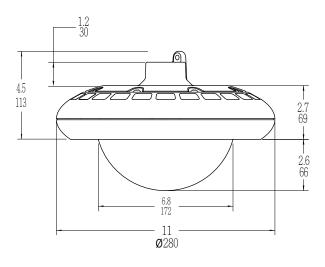
#### **Thermal Management**

The new ILX280 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 ILX280 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.

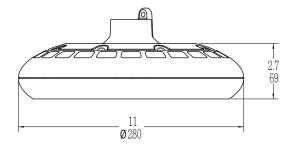


System Watts	T6 Tempera Ambient Temp	ture Code erature Range	T5 Tempera Ambient Temp	ature Code erature Range	T4a Temperature Code Ambient Temperature Range		
35 W	-40°F ~ 140°F	-40°C ~ 60°C	-40°F ~ 140°F	-40°C ~ 60°C			
55 W	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 140°F	-40°C ~ 60°C			
75 W	-40°F ~ 122°F	-40°C ~ 50°C	-40°F ~ 140°F	-40°C ~ 60°C	-40°F ~ 140°F	-40°C ~ 60°C	

# **External Dimensions**



**ILX280 Well Glass** 



**ILX280** 



LED Hazardous Area Lighting

#### **Ordering Information**

ILX28	Wattage	Voltage	-	Optics	Pitch	-	ССТ	Driver & Control	-	Mounting *
	55 = 55Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC		S5 = Type V Square	S = Short M = Medium L = Long		40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor MS = Motion Sensor SC = Smart Control		PDS = Pendant Mount SWL = Swivel Mount S90 = 90° Stanchion Mount S25 = 25° Stanchion Mount WS9 = 90° Stanchion Wall WS2 = 25° Stanchion Wall

NOTE: Gray is the standard exterior color.

\*PDS is the standard mounting system, Please specify conduit diameter of NPT 3/4" or 1".

# Example

Part Number	Part Description					
ILX2835UV-R5M-50DM-PDS	LED Hazardous Area Light / 35 Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable / Pendant Mount					

# **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight
ILX280	1	30 x 30 x 13.3 cm 11.2 x 11.2 x 5.3 in	3.9 kg 8.6 lbs
ILX280 Well Glass	1	30 x 30 x 20 cm 11.2 x 11.2 x 7.8 in	4 kg 8.8 lbs

# **Specification**

Fixture Watts	35 W	55 W	75 W						
Ts - Solder Point Temp*	53°C / 127°F	57°C / 134°F	62°C / 144°F						
L70 Rating @ T <sub>a</sub> 25°C	>175K Hours	>160K Hours	>145K Hours						
Operational Temperature (Ta)	-40° ~ 60°C / -40° ~ 140°F								
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC								
LED Model	Lumileds / Nichia / Cree								
CRI	>75								
Lighting Control	Dimmable (0-10V, P	WM) / Smart Control / Daylig	ght & Motion Sensor						
Warranty		10-Year Limited							
Storage Temperature / Humidity	-50° ~ 80°	C / -58° ~ 176°F / IP69K Rat	ted Fixture						
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA								
* Test data @ Ta: 25°C All values have +7% tolers									

\* Test data @ Ta: 25°C. All values have ±7% tolerance







# HAZARDOUS AREA APPLICATION LED LUMINARE



LED Hazardous Area Lighting



# **Product Information**

The ILX3525 Series hazardous area light fixture is specifically engineered to withstand the harshest conditions found in mining and oil & gas operations. It is available in numerous lumen packages, optics variations and versatile mounting systems. Its unique butterfly optical system delivers ultra-bright high efficacy light output with outstanding horizontal and vertical surface coverage for all stages of hazardous area operations found in:

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms

- Sub-Surface Mineshafts
- Chemical Plants
- Ball / Tube Mill Facilities
- Tunnel Boring

The ILX3525 Series incorporates patented thermal technology enabling low LED junction temperatures (Tj) with extended lumen maintenance and virtually zero fixture maintenance. The weatherproof ILX3525 has an IP69K rating ideal for the toughest operating conditions and is available with wireless smart technology for greater flexibility and energy savings.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending



# ILX3525 Series LED Hazardous Area Lighting



# **Advantages of ILX3525**

- Technologically advanced LED hazardous area light fixture
- Available in 35 ~ 100 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 150 lm / W
- Wide angle butterfly optics enabling glare-free, uniform lighting
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Hazardous location and high temperature rated with an operational temperature of -40 ~ +60°C (-40 ~ +140°F)
- IP69K-rated tri-proof (dust, vapor & water-proof) luminaire
- 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 with motion & daylight sensor enabling greater savings and flexibility
- · Available with versatile mounting options for various hazardous area applications
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 135,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



LED Hazardous Area Lighting

# **Optic Options**

02 - Type II / wall mount & perimeter lighting applications



S5 - Type V Rectangular / symmetric for canopies, tunnels, parking garages and wide flood applications



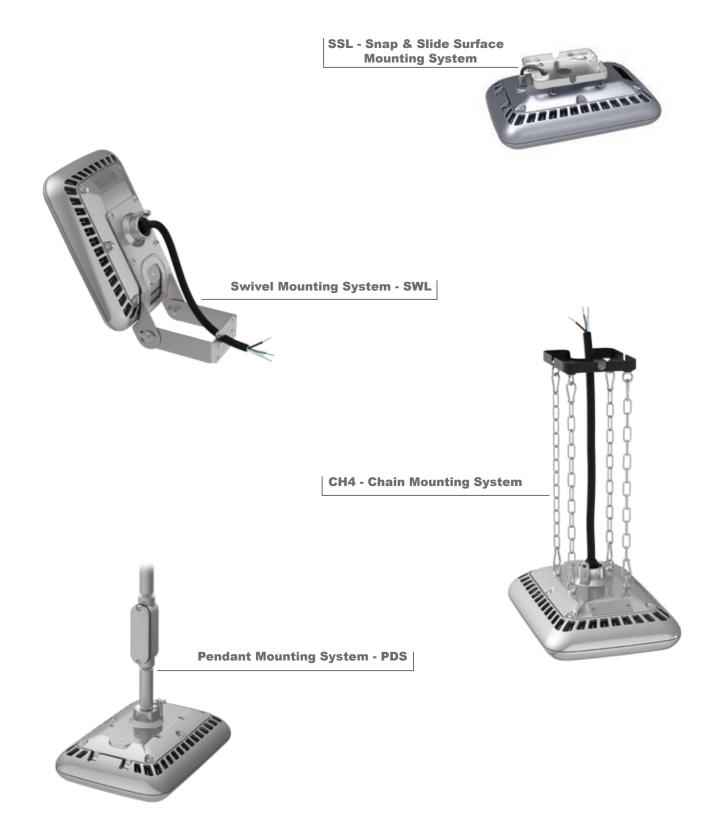
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications





LED Hazardous Area Lighting

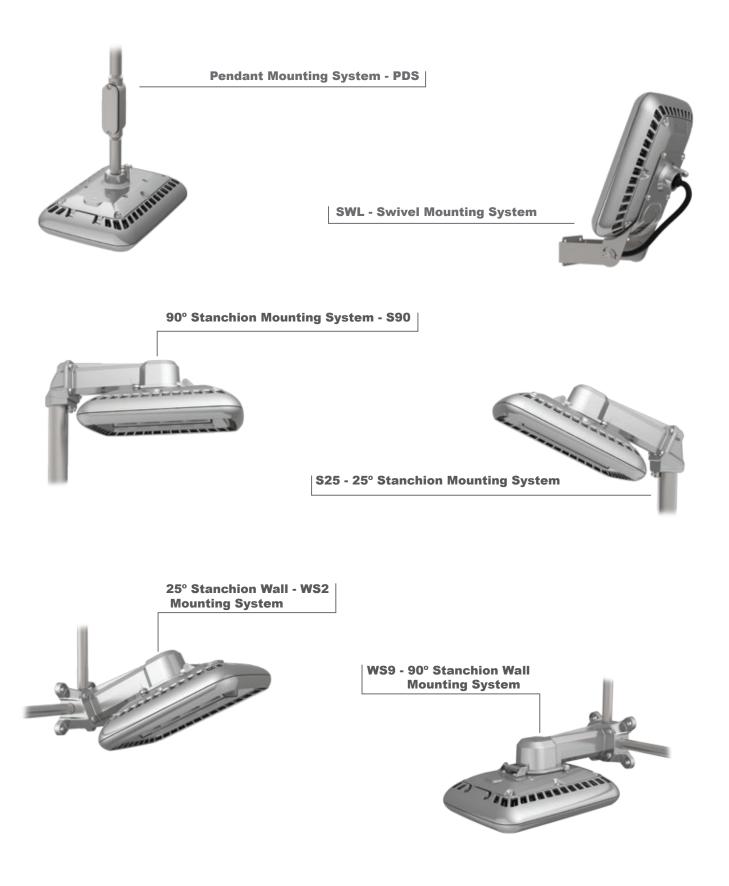
# **Mounting Options**





LED Hazardous Area Lighting

# **Standard Mounting Options**

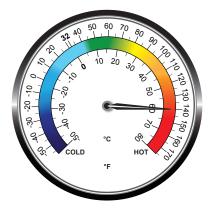




LED Hazardous Area Lighting

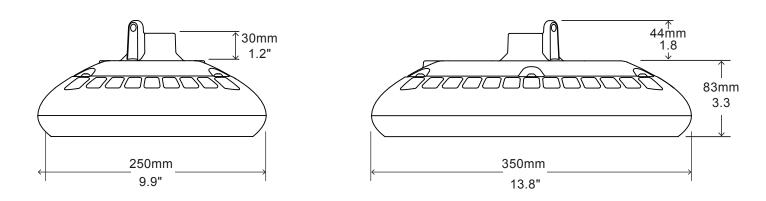
### **Thermal Management**

The new ILX3525 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 ILX3525 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 Tempera Ambient Temp	ture Code erature Range	T5 Tempera Ambient Temp	ature Code erature Range	T4a Temperature Code Ambient Temperature Range		
35 W	-40°F ~ 140°F	-40°C ~ 60°C	-40°F ~ 140°F	-40°C ~ 60°C			
55 W	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 140°F	-40°C ~ 60°C			
75 W	-40°F ~ 122°F	-40°C ~ 50°C	-40°F ~ 140°F	-40°C ~ 60°C			
100 W	-40°F ~ 113°F	-40°C ~ 45°C	-40°F ~ 131°F	-40°C ~ 55°C	-40°F ~ 140°F	-40°C ~ 60°C	

#### **External Dimensions**





LED Hazardous Area Lighting

### **Ordering Information**

ILX3525	Wattage	Voltage	-	Optics	Pitch	-	ССТ	Driver & Control	-	Mounting *
	035 = 35Watt 055 = 55Watt 075 = 75Watt 100 = 100Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC		02 = Type II S5 = Type V Rectangular F5 = Type V Frosted	M = Medium L = Long		40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor MS = Motion Sensor SC = Smart Control		PDS = Pendant Mount SWL = Swivel Mount S90 = 90° Stanchion Mount S25 = 25° Stanchion Mount WS9 = 90° Stanchion Wall WS2 = 25° Stanchion Wall

\* PDS is the standard mounting system, please specify conduit diameter of NPT % or 1". NOTE: Gray is the standard exterior color.

### Example

Part Number	Part Description
ILX3525-075UV-S5M-50DM-PDS	LED Hazardous Area Light / 75 Watt / 100-277VAC / Type V Rectangular / Medium Pitch / 5000K Cool White / Dimmable / Pendant Mount

# **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	38.5 x 28.5 x 16.5 cm 15.2 x 11.25 x 6.5 in	5.7 kg 12.5 lbs

# **Specification**

Fixture Watts	35 W	55 W	75 W	100 W					
Ts - Solder Point Temp *	52°C / 126°F	56°C / 133°F	60°C / 140°F	63°C / 145°F					
L70 Rating @ T₄25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours					
Operational Temperature (Ta)		-40° ~ 60°C .	∕ -40° ~ 140°F						
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC								
LED Model	Lumileds / Nichia / Cree								
CRI		>	75						
Lighting Control	Dimmable (0	0-10V, PWM) / Smar	rt Control / Daylight &	& Motion Sensor					
Warranty		10-Yea	r Limited						
Storage Temperature / Humidity	-50	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture							
Transient Surge Protection		10kV / 5kA (L-L, L-G) Optional 20kV / 10kA							

 $^{\ast}$  Test data @ Ta: 25°C. All values have ±7% tolerance







# HAZARDOUS AREA APPLICATION LED LUMINARE



#### LED Hazardous Area Lighting



### **Product Information**

The ILX450 Series is the first true IP69K marine rated LED luminaire designed specifically to withstand the harsh conditions of extreme environments found in hazardous area locations such as offshore oil & gas platforms and mining operations. This robust fixture is available in numerous lumen packages, optical configurations, and versatile mounting options to cover all stages of hazardous area operations found in:

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms

- Sub-Surface Mineshafts
- Chemical Plants
- Ball / Tube Mill Facilities
- Tunnel Boring

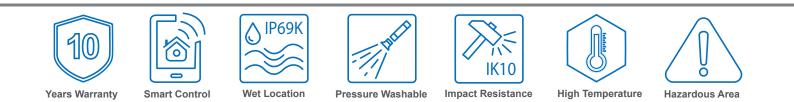
Its patented air bi-pass convection system enables excellent thermal management to ensure long LED life with extended lumen maintenance and virtually zero fixture maintenance. The ILX450 is available with an optional smart wireless control system for maximum efficiency and flexibility. Its proprietary optical system delivers ultra-bright industry leading high efficacy light output, resulting in cost effective solutions with a short ROI period.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending



#### LED Hazardous Area Lighting





# **Advantages of ILX450**

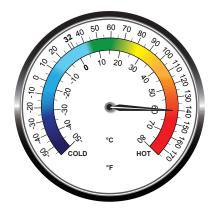
- Technologically advanced LED hazardous area light fixture
- Available in 100 ~ 220 watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 170 Im / W
- Proprietary optics enabling glare-free, uniform lighting for most applications
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Hazardous location and high temperature rated with an operational temperature of -40  $\sim$  +65°C (-40  $\sim$  +149°F)
- IP69K-rated tri-proof (dust, vapor & water-proof) & high pressure washable luminaire
- Industrial grade three layer powder coating on copper-free aluminium housing build for complete corrosion resistance
- Marine-rated stainless steel fasteners and trimmings
- Optional wireless smart control system with motion & daylight sensor enabling greater savings
  and flexibility
- Available with versatile mounting options for various hazardous area locations
- 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



# ILX450 Series LED Hazardous Area Lighting

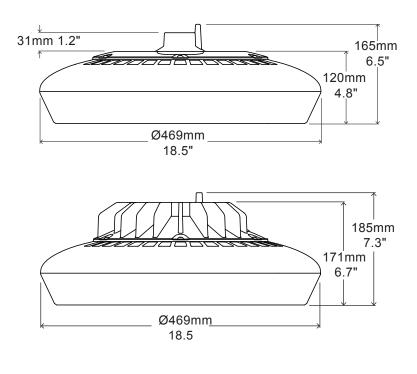
### **Thermal Management**

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 Tempera Ambient Temp	ture Code erature Range	T5 Tempera Ambient Temp	ature Code erature 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	

#### **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

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 25.0 cm 19.7 x 19.7 x 9.8 in	15.0 kg 33.0 lbs



LED Hazardous Area Lighting

### **Optics Options**

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



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



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



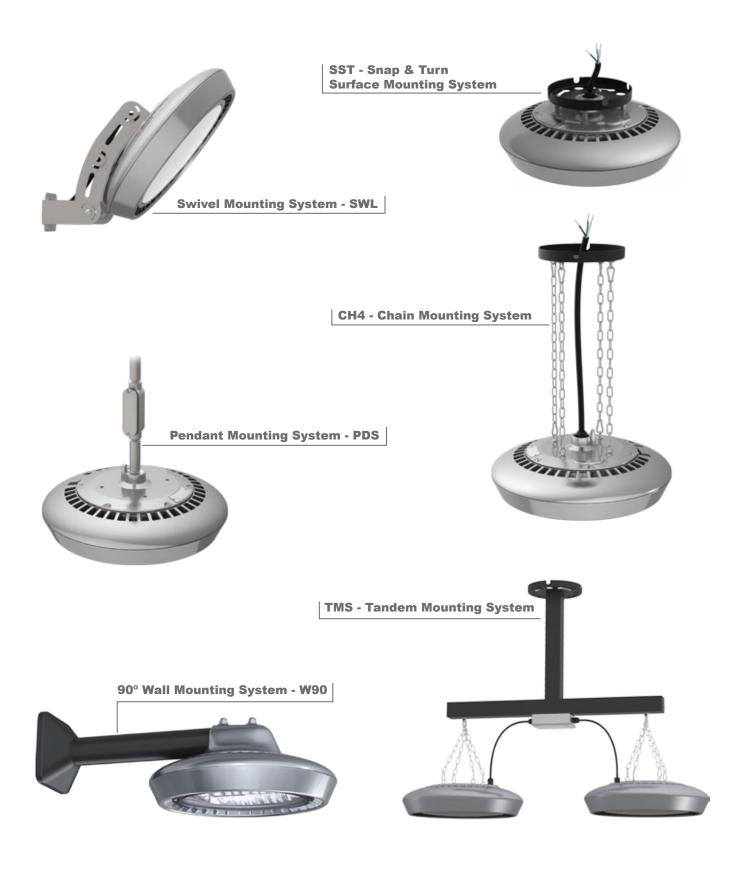
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications





LED Hazardous Area Lighting

# **Mounting Options**





LED Hazardous Area Lighting

# **Mounting Options**

90° Stanchion Mounting System - S90





90° Stanchion Wall Mounting System - WS9



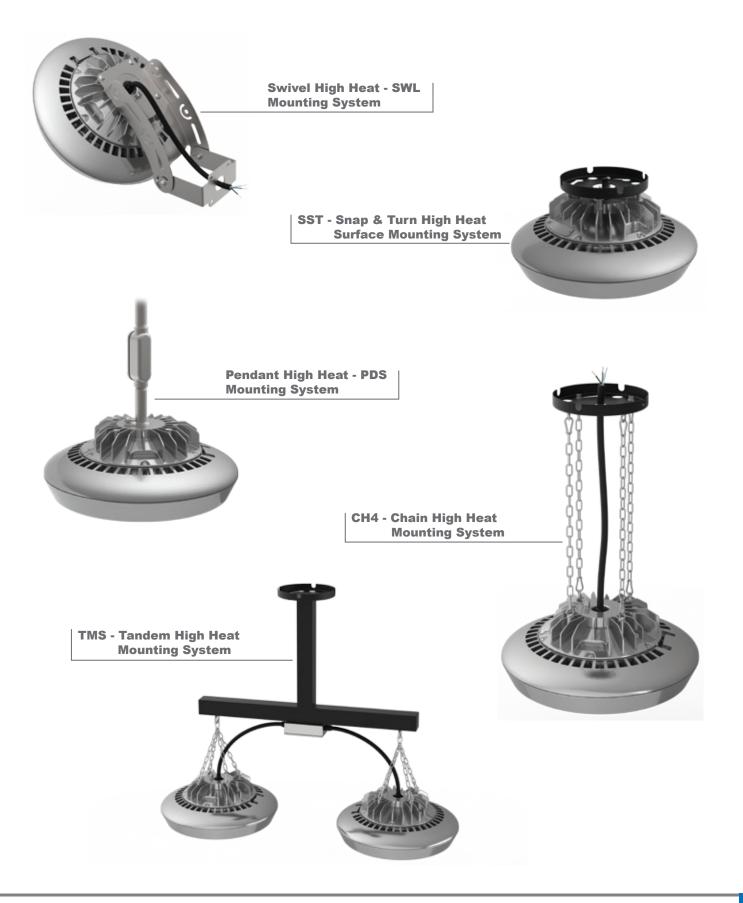






LED Hazardous Area Lighting

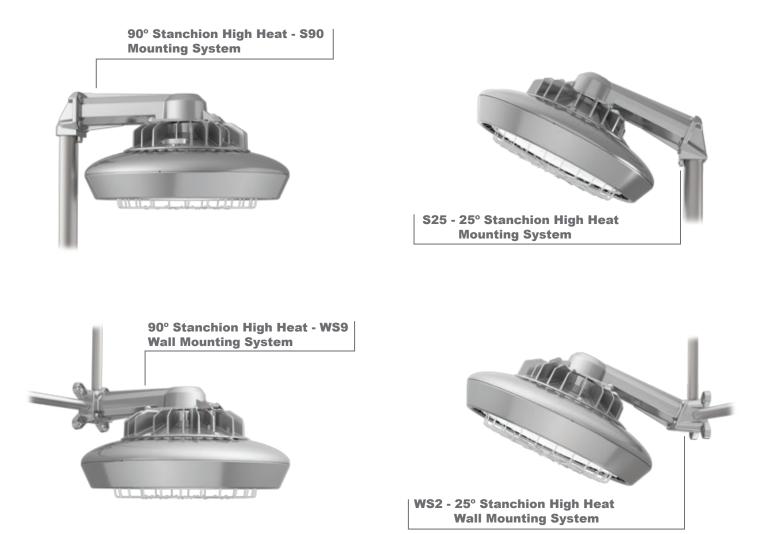
# **High Temperature Mounting Options**





LED Hazardous Area Lighting

# **High Temperature Mounting Options**







LED Hazardous Area Lighting

### **Ordering Information**

ILX45 Wattage Voltage	Optics	Pitch –	CCT	Driver & Control	Mounting *
100 = 100W      UV = 100-277VAC        125 = 125W      HV = 200-480VAC        150 = 150W      DV = 127-390VDC        185 = 185W      220 = 220W		M = Medium	40 = 4000K		PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount W90 = 90° Wall Mount SWL = Swivel Mount TMS = Tandem Mount S90 = 90° Stanchion Mount S25 = 25° Stanchion Mount WS9 = 90° Stan Wall Mount WS2 = 25° Stan Wall Mount CMS - Ceiling Mount

NOTE: Gray is the standard exterior color.

\* PDS is the standard mounting system, please specify conduit diameter of NPT ¾" or 1".

#### Example

Part Number	Part Description			
ILX45150UV-R5M-50HD-PDS	LED High Temperature Light / 150Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / High Temperature Dimmable / Pendant Mount			

# **Specification**

Fixture Watts	100 W	125 W	150 W	185 W	220 W
Ts - Solder Point Temp *	50°C / 122°F	53°C / 127°F	56°C / 133°F	61°C / 142°F	66°C / 151°F
L70 Rating @ T₄ 25°C	>185K hours	>180K hours	>175K hours	>160K hours	>150K hours
Operational Temperature (Ta)	-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 / Daylight & Motion Sensor				
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 values have ±7% tolerance







# LX Series

# FOOD PROCESSING LINEAR LED LUMINARE



LX Series LED Food Processing Linear Lighting



## **Product Information**

The LX Series is NSF certified and IP69K-rated LED linear light designed to withstand the demanding environments of modern food processing industry. This corrosion resistant fixture is available in multiple lengths and is ideal for applications that require daily cleaning with high pressure wash downs.

It is available in numerous high efficacy lumen packages and delivers ultra-wide 155° glare free, uniform lighting for outstanding horizontal and vertical surface coverage. Excellent thermal management ensures long LED life with extended lumen maintenance and virtually zero fixture maintenance. The LX Series has an IK10-impact rating and incorporates an all-inclusive junction box for simple installation with end to end connections.

Patent No.US 10,222,052 B1 Other US and international patents pending

## Applications

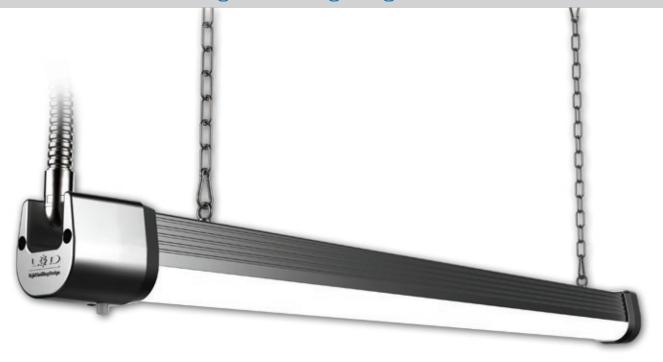
- Canneries
- Meat Packing Plants
- Slaughterhouses
- Rendering Plants

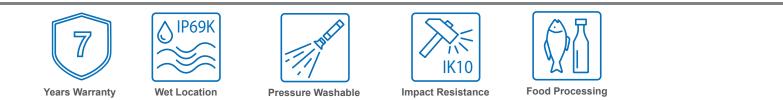
- Sugar Mills
- Dairy Processing
- Bottling Plants
- Chicken Farms



# LX Series

#### LED Food Processing Linear Lighting

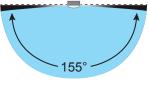




## **Advantages of LX Series**

- NSF certified LED food & beverage processing linear light
  - High efficacy fixture up to 170 lm / W
  - Flexible wattages and lengths ranging from 20 ~ 120 Watt
  - IP69K rated tri-proof (dust, vapor & water-proof) luminaire
  - Deep anodized aircraft grade billet aluminum extruded housing
  - Hard UV coated, chemical resistant polycarbonate lens cover
  - Nylon 66 junction box enabling IK10 extreme impact rating
  - Glare free 155° wide angle optics reducing fixture count by up to 25%
  - Lightweight design with accessible junction box for simplified installation
  - 80CRI for exceptional color rendition
  - Optional smart motion sensing with soft dimming function
  - Optional all-inclusive emergency battery backup system 10 Watt / 90 minutes
  - Versatile mounting options for all types of hazardous area locations
  - L70 ≥ 100,000 hours with 7-year limited warranty
  - Designed and engineered in the USA

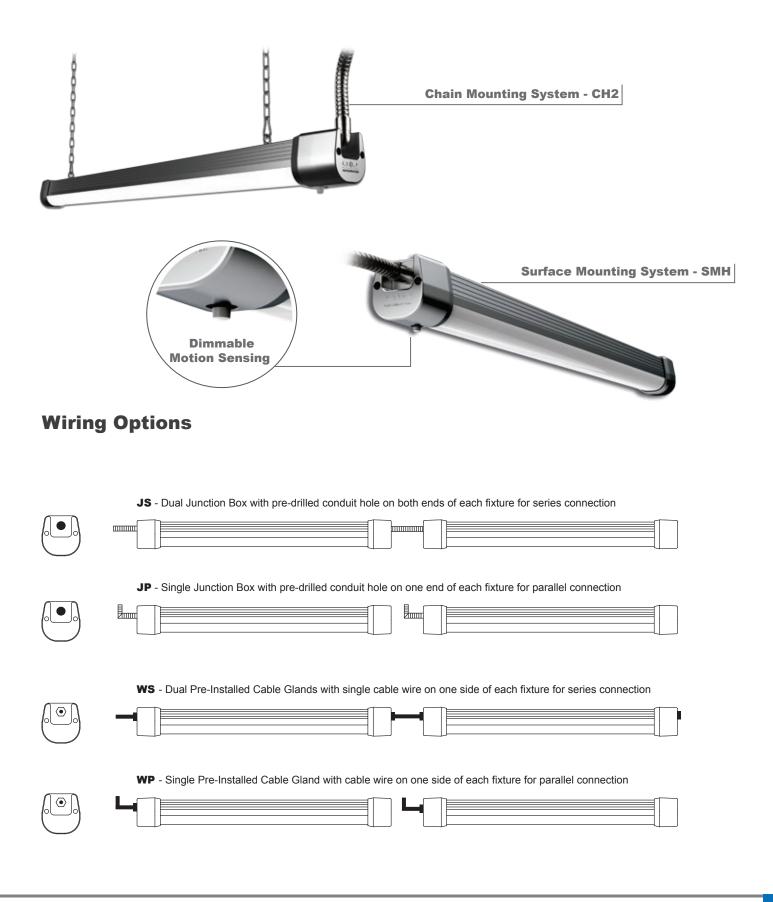




Wide Angle Optics

# LX Series LED Food Processing Linear Lighting

## **Mounting Options**

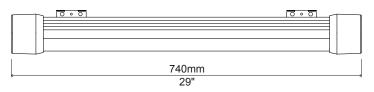


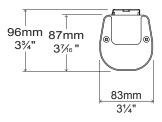


LX Series LED Food Processing Linear Lighting

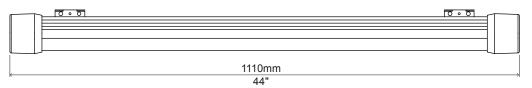
#### **External Dimensions**

#### LX0720

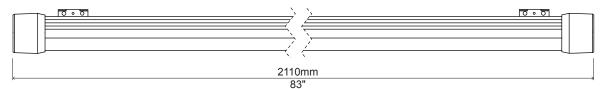




# LX1040 / LX1E40 / LX1060 / LX1E60



#### LX2080 / LX2120



## **Packaging Information**

Model	Case Quantity	Dimensions (L x W x H)	Weight
LX0720	6	83 x 36 x 21 cm 32.7 x 14 x 8.3 in	13 kg 28.6 lbs
LX1040	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1E40/1E60	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1060	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX2080	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs
LX2120	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs



#### **Ordering Information**

LX	Length & Wattage*	-	Wiring**	Optics	-	ССТ	Driver & Control	-	Mounting***
	0720 = 74cm / 29" / 20Watt 1040 = 111cm / 44" / 40Watt 1E40 = 111cm / 44" / 40/10Watt 1060 = 111cm / 44" / 60Watt 1E60 = 111cm / 44" / 60/10Watt 2080 = 211cm / 83" / 80Watt 2120 = 211cm / 83" / 120watt		JS = J-Box in Series JP = J-Box in Parallel WS = Cable in Series WP = Cable in Parallel	FL = Frosted Long CM = Clear Medium		40 = 4000K	ND = Non-Dimmable DM = Dimmable MS = Motion Sensor		SMH = Surface Mount CH2 = 2 Chain Mount

\* LX1E emergency battery back up series is available in standard 40 and 60 Watt configurations with an all-inclusive charger, battery , indicator and test switch.

\*\*When ordering JS or JP Wiring options, please specify required conduit hole diameter.

\*\*\*Multi Mount system comes standard enabling surface, threaded rod and chain mounting.

#### **Example**

Part Number	Part Description
LX1040-JSFL-50DM-SMH	LED Food Processing Linear Light / 111cm - 44" / 40Watt / 100-277VAC / J-Box in Series / Frosted Long / 5000K Cool White / Dimmable / Surface Mount

## **Specification**

Model	LX0720 LX1040 LX1E40/60** LX1060 LX2080 LX21					LX2120		
Fixture Watts *	20 W 40 W 10 W 60 W 80 W 120							
Ts - Solder Point Temp *	47°C/117°F 52°C/126°F 39°C/102°F 58°C/136°F 55°C/131°F 60°C/140							
L70 Rating @ T₄25°C	>110K hours >100K hours >140K hours >90K hours >100K hours >90K ho							
Light Beam Angle	155° @ 80% Flux							
Operational Temperature (Ta)	-40° ~ 55°C / -40° ~ 131°F							
Input Voltage	100-277VAC 50~60Hz							
LED Model	Lumileds / Nichia / Cree							
CRI	>80							
Lighting Control	Dimmable (0-10V, PWM) / Motion Sensor							
Warranty	7-Year Limited							
Storage Temperature / Humidity	-40° ~ 80°C / -40° ~ 176°F / IP69K Rated Fixture							
Transient Surge Protection			6kV / 3kA	(L-L, L-G)				

\* Test data @ Ta 25°C. All values have  $\pm$ 7% tolerance \*\*LX1E emergency battery back up series is available in standard 40 and 60

Watt configurations with an all-inclusive inverter, indicator, and test switch.







FOOD PROCESSING LED LUMINARE



# ILX340 Series LED Food Processing Lighting



## **Product Information**

The ILX340 Series is the first true corrosion resistant, NSF certified and P69K hermetically sealed LED industrial luminaire specifically designed to withstand the extreme corrosive environments within the food processing industry. This high efficacy fixture is constructed from specially treated marine rated SUS316 stainless steel with a sloped surface design enabling easy clean-up during high pressure chemical wash-downs and reducing residue and bacteria build up.

The proprietary polymer lens incorporates space age technology for unmatched corrosive resistance in acidic and caustic environments. The ILX340 Series is available in various optics enabling, glare-free high CRI uniform lighting for all stages of food processing operations.

US & International patents pending

## **Applications**

- Canneries
- Meat Packing Plants
- Slaughterhouses
- Rendering Plants

- Sugar Mills
- Dairy Processing Facilities
- Bottling Plants & Breweries
- Livestock Farms



LED Food Processing Lighting



#### **Advantages of ILX340**

- NSF certified industries first true corrosion resistant LED fixture
- Available in 100 ~ 175 Watt configurations
- Ultra-bright, industry leading high efficacy up to 175 lm / W
- IP69K-rated tri-proof (dust, vapor & water-proof) light fixture, high pressure washable up to 1800PSI
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Sloped curvature & smooth surface design prevents food residue and bacteria build up
- Dual layer space age coating for unmatched corrosive resistance in acidic environments
- Corrosion resistant stainless steel SUS316 power connection portal for total protection
- Titanium rated high efficiency LED driver for unmatched reliability
- L70 ≥ 135,000 hours with an exceptional 7-year limited warranty
- Designed and engineered in the USA



LED Food Processing Lighting

# **Optic Options**

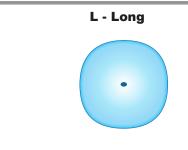
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

S - Short	M - Medium	

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



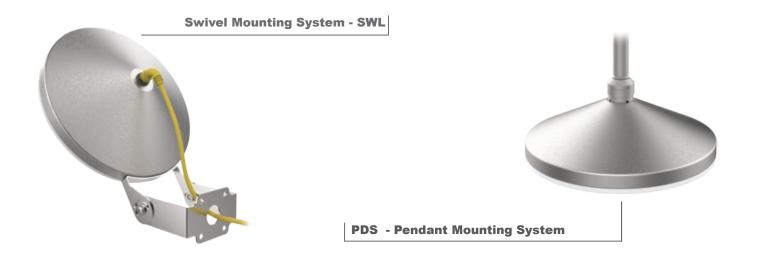
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications



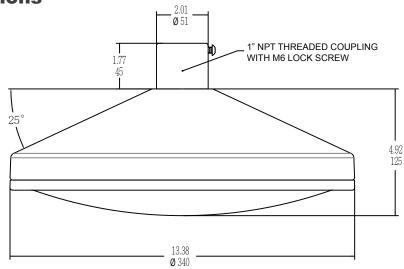


# ILX340 Series LED Food Processing Lighting

# **Mounting Options**



**External Dimensions** 



# **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	36.5 x 36.5 x 20 cm 14.4 x 14.4 x 7.9 in	8.5 kg 18.70 lbs



LED Food Processing Lighting

## **Ordering Information**

ILX34	Wattage	Voltage	- Optics	Pitch	-	ССТ	Driver & Control	-	Mounting*
	100 = 100W 125 = 125W 150 = 150W 175 = 175W	UV = 100-277VAC HV = 200-480VAC	R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	M = Medium			ND = Non-Dimmable DM = Dimmable		PDS = Pendant Mount SWL = Swivel Mount

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

#### Example

Part Number	Part Description				
ILX34175UV-R5M-50DM-PDS	LED Food Processing Light / 175 Watt / 100-277VAC / Type V Round Medium / 5000K Cool White / Dimmable / Pandant Mount				

# **Specification**

Fixture Watts	100 W	125 W	150 W	175 W			
Ts - Solder Point Temp *	52°C / 126°F	56°C / 133°F	61°C / 142°F	67°C / 153°F			
L70 Rating @ T₄25°C	> 150K hours	> 140K hours	> 125K hours	> 110K hours			
Operational Temperature (Ta)	-40° ~ 60°C / -40° ~ 140°F						
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC						
LED Model	Nichia / Lumileds / Cree						
CRI	> 75						
Lighting Control	Dimmable (0-10V, PWM)						
Storage Temp. / Humidity	-40° ~ 80°C / -40° ~ 176°F / IP69K Rated Fixture						
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA						
Warranty	7-Year Limited						

\* Test data @ Ta: 25°C. All values have ±7% tolerance







# CORROSIVE AREA APPLICATION LED LUMINARE



LED Corrosive Area Lighting



#### **Product Information**

The RWX600 Series is a true corrosion resistant, pole mounted area / site luminaire designed specifically to withstand the extreme corrosive environments found in offshore oil & gas and mining operations.

This IP66 rated luminaire is ideal for offshore oil platforms, terminals & tank farms to sub-surface mineshafts. Field serviceable cost effective modularized light engine and LED driver prolongs fixture usage far beyond its warranty period. The RWX600 is available with an optional dusk-to-dawn built in daylight sensor designed to work year-round.

US & International patents pending

#### **Applications**

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms

- Desalination Plants
- Wastewater Treatment Plants
- Cement & Chemical Plants
- Conveyor Belts



#### LED Corrosive Area Lighting



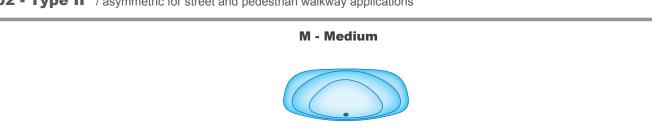
## **Advantages of RWX600**

- Pole mounted corrosive area / site LED luminaire
- Available in 30 / 50 / 70Watt configurations
- Direct replacement of up to 250W HID street light
- Ultra-bright industry leading high efficacy up to 180 lm /W
- Field serviceable cost effective modularized light engine and LED driver
- Wide angle optics with built in 10° vertical tilt for more uniform lighting distribution
- Advanced thermal technology for maintenance free long life
- Optional smart control, daylight sensor and surge & lightning protection with externally mounted ZHAGA standard receptacle
- IP66 rated tri-proof (dust, vapor & water-proof) light fixture
- Titanium rated high efficiency LED driver with smart circuitry
- Ideal for budgetary lighting projects
- Marine rated SUS316 stainless steel housing for superior corrosion protection
- 15-year limited warranty on housing & structure
- 5 year limited warranty on light engine and LED driver
- Designed and engineered in the USA



LED Corrosive Area Lighting

# **Optics Options**



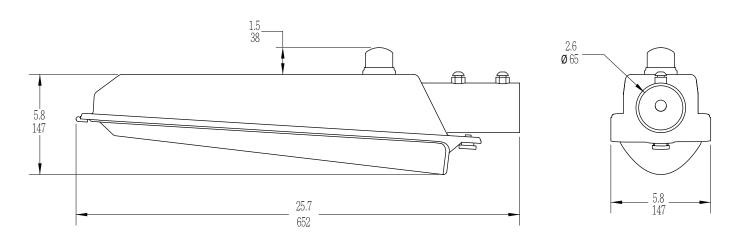
**02 - Type II** / asymmetric for street and pedestrian walkway applications

#### F2 - Type II Opaque - Frosted / asymmetric for ultra uniform & low glare applications

L-Long



#### **External Dimensions**



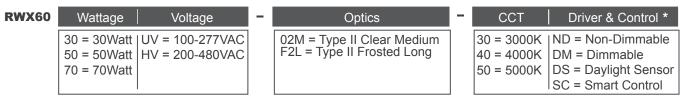
## **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight
RWX600	1	67 x 7 x 10 cm 26.4 x 2.8 x 4 inch	2.7 kg 6 lbs



LED Corrosive Area Lighting

# **Ordering Information**



\* Smart control & daylight sensor available with externally mounted ZHAGA standard receptacle module.

#### Example

Part Number	Part Description
RWX6030UV-02M-50ND	LED Corrosive Area Light / 30 Watt / 100-277VAC / Type II Clear Lens Medium / 5000K Cool White / Non-Dimmable

## **Specification**

Fixture Watts	30 W 50 W 70 W						
Ts - Solder Point Temp *	56°C / 133°F 62°C / 144°F 69°C / 15						
L70 Rating @ T₂25°C	> 65K hours	> 55K hours	> 50K hours				
Operational Temperature (Ta)	-40° ~ 50°C / -40° ~ 122°F						
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC						
LED Model	Nichia 3030						
CRI	85						
Lighting Control	Dimmable (0-10V, PWM) / Smart Control / Daylight Sensor						
Warranty	5-Year Limited						
Storage Temp.	-40° ~ 80°C / -40° ~ 176°F / IP66 Rated Fixture						
Transient Surge Protection	10kV / 5kA (L-L, L-G)						

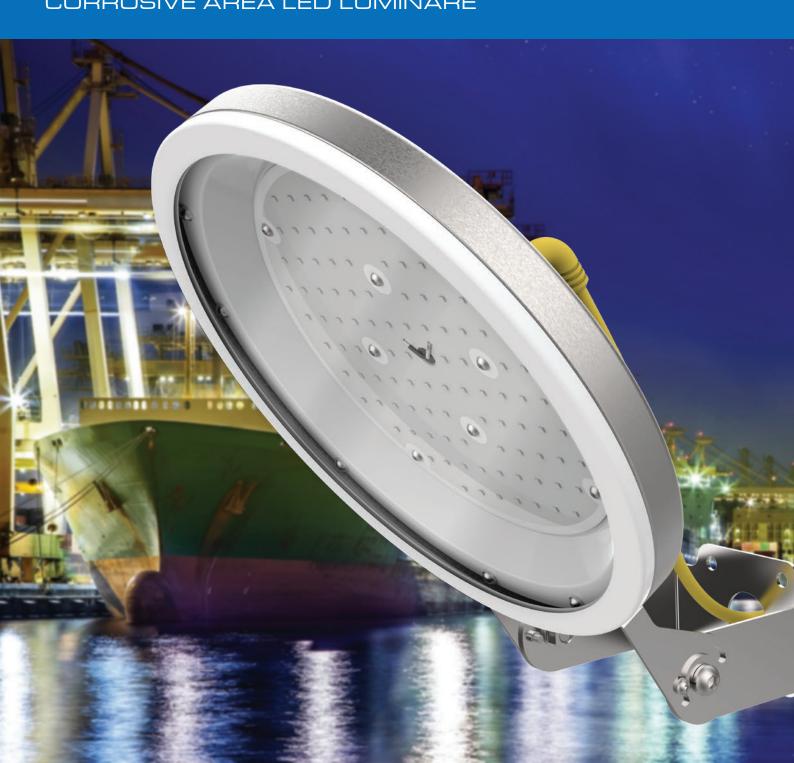
\* Test data @ Ta: 25°C. All values have ±7% tolerance







# ILX340 Series Corrosive area led luminare



LED Corrosive Area Lighting



### **Product Information**

The ILX340 Series is the first true corrosion resistant, NSF certified and P69K hermetically sealed LED industrial luminaire specifically designed to withstand the extreme corrosive environments. This high efficacy fixture is constructed from a specially treated marine rated SUS316 stainless steel with a sloped surface design enabling easy clean-up during high pressure chemical wash-downs and reducing residue and bacteria build up.

The proprietary polymer lens incorporates space age technology for unmatched corrosive resistance in acidic and caustic environments. The ILX5530 Series is available in various optics enabling, glare-free high CRI uniform lighting for all stages of hazardous corrosive area operations.

US & International patents pending

## **Applications**

- Marine & Ship Yards
- Desalination Plants
- Wastewater Treatment Plants
- Cement & Chemical Plants

- Offshore Oil & Gas
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms



LED Corrosive Area Lighting



## **Advantages of ILX5530**

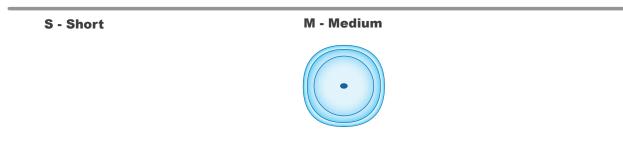
- Industries first true corrosion resistant LED fixture
- Available in 100 ~ 175 Watt configurations
- Ultra-bright, industry leading high efficacy up to 165 lm / W
- IP69K-rated tri-proof (dust, vapor & water-proof) light fixture, high pressure washable up to 1800PSI
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Sloped curvature & smooth surface design prevents residue and bacteria build up
- Dual layer space age coating for unmatched corrosive resistance in acidic environments
- Corrosion resistant stainless steel SUS316 power connection portal for total protection
- Optional wireless smart control system enables greater savings and flexibility
- Titanium rated high efficiency LED driver for unmatched reliability
- L70 ≥ 135,000 hours with an exceptional 7-year limited warranty
- Designed and engineered in the USA



LED Corrosive Area Lighting

# **Optic Options**

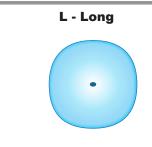
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications



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



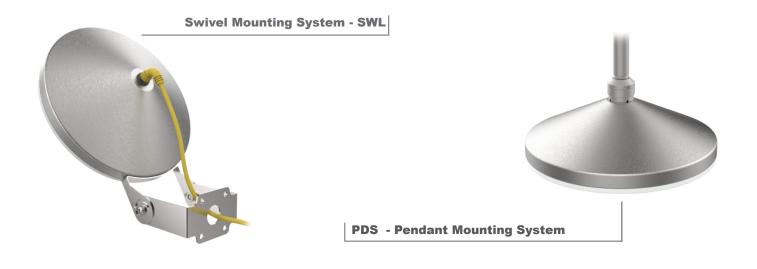
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications



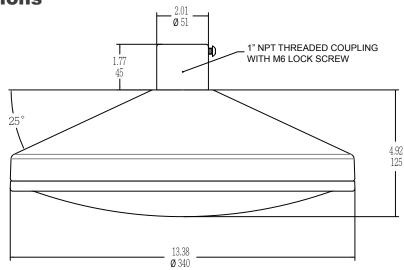


LED Corrosive Area Lighting

# **Mounting Options**



**External Dimensions** 



# **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	36.5 x 36.5 x 20 cm 14.4 x 14.4 x 7.9 in	8.5 kg 18.70 lbs



LED Corrosive Area Lighting

## **Ordering Information**

ILX34	Wattage	Voltage	-	Optics	Pitch	-	ССТ	Driver & Control	-	Mounting*
	100 = 100W 125 = 125W 150 = 150W 175 = 175W	UV = 100-277VAC HV = 200-480VAC		R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	M = Medium			ND = Non-Dimmable DM = Dimmable		PDS = Pendant Mount SWL = Swivel Mount

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

#### Example

Part Number	Part Description
ILX34175UV-R5M-50DM-PDS	LED Corrosive Area Light / 175 Watt / 100-277VAC / Type V Round Medium / 5000K Cool White / Dimmable / Pandant Mount

## **Specification**

Fixture Watts	100 W	125 W	150 W	175 W			
Ts - Solder Point Temp *	52°C / 126°F	56°C / 133°F	61°C / 142°F	67°C / 153°F			
L70 Rating @ T₂25°C	> 150K hours	> 140K hours	> 125K hours	> 110K hours			
Operational Temperature (Ta)		-40° ~ 60°C /	′ -40° ~ 140°F				
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC						
LED Model	Nichia / Lumileds / Cree						
CRI	> 75						
Lighting Control	Dimmable (0-10V, PWM)						
Storage Temp. / Humidity	-40° ~ 80°C / -40° ~ 176°F / IP69K Rated Fixture						
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA						
Warranty	7-Year Limited						

\* Test data @ Ta: 25°C. All values have ±7% tolerance







# LX Series

# TUNNEL LINEAR LED LUMINARE





#### **Product Information**

The LX Series is an IP69K-rated tri-proof, corrosion resistant linear LED tunnel luminaire designed to withstand the demanding environments of subterranean tunnels. It is available in  $20 \sim 120$ Watt configurations and provides wide angle glare free, uniform lighting improving visibility and safety for all motorists.

The high efficacy LX Series incorporates an optional emergency battery backup system, motion sensor with soft dimming function and versatile mounting systems for all types of tunnel applications. This robust linear light has an IK10-impact rating and an all-inclusive dual sided junction box for easy to install end to end connectivity.

Patent No.US 10,222,052 B1 Other US and international patents pending

#### **Applications**

- Road Tunnels
- Utility Tunnels
- Underpasses

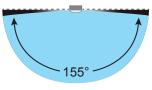


- Undersea Tunnels
- Metro Line Tunnels
- Tunnel Boring



# **Advantages of LX Series**

- IP69K rated tri-proof (dust, vapor & water-proof) LED tunnel light
- High efficacy fixture up to 170 Im / W
- Flexible wattages and lengths ranging from 20 ~ 120 Watt
- Corrosion resistant robust design with IK10-rated fixture housing
- Lightweight design with accessible junction box for simplified installation
- 80 CRI for exceptional color rendition
- 155° Butterfly wide angle optics enabling glare free uniform lighting
- Optional smart motion sensing with soft dimming function
- Optional all-inclusive emergency battery backup system 10 Watt / 90 minutes
- Versatile mounting options for all types of tunnel applications
- L70 ≥ 100,000 hours with 7-year limited warranty
- Designed and engineered in the USA



Wide Angle Optics



# **Mounting Options**



# **Wiring Options**

JS - Dual Junction Box with pre-drilled conduit hole on both ends of each fixture for series connection
JP - Single Junction Box with pre-drilled conduit hole on one end of each fixture for parallel connection
WS - Dual Pre-Installed Cable Glands with single cable wire on one side of each fixture for series connection
WP - Single Pre-Installed Cable Gland with cable wire on one side of each fixture for parallel connection

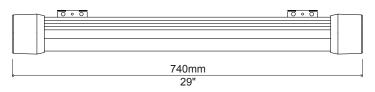


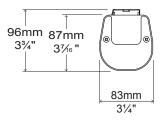
LED Tunnel Linear Lighting

#### **External Dimensions**

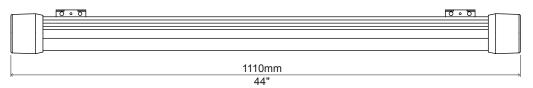
**LX** Series

#### LX0720

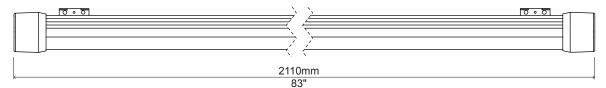




## LX1040 / LX1E40 / LX1060 / LX1E60



#### LX2080 / LX2120



## **Packaging Information**

Model	Case Quantity	Dimensions (L x W x H)	Weight
LX0720	6	83 x 36 x 21 cm 32.7 x 14 x 8.3 in	13 kg 28.6 lbs
LX1040	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1E40/1E60	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX1060	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LX2080	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs
LX2120	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs



## **Ordering Information**

LX	Length & Wattage*	-	Wiring**	Optics	-	ССТ	Driver & Control	-	Mounting
	0720 = 74cm / 29" / 20Watt 1040 = 111cm / 44" / 40Watt 1E40 = 111cm / 44" / 40/10Watt 1060 = 111cm / 44" / 60Watt 1E60 = 111cm / 44" / 60/10Watt 2080 = 211cm / 83" / 80Watt 2120 = 211cm / 83" / 120watt		JS = J-Box in Series JP = J-Box in Parallel WS = Cable in Series WP = Cable in Parallel	FL = Frosted Long CM = Clear Medium		40 = 4000K	ND = Non-Dimmable DM = Dimmable MS = Motion Sensor		SMH = Surface Mount

\* LX1E emergency battery back up series is available in standard 40 and 60 Watt configurations with an all-inclusive charger, battery , indicator and test switch.

\*\*When ordering JS or JP Wiring options, please specify required conduit hole diameter.

## Example

Part Number	Part Description
LX1040-JSFL-50DM-SMH	LED Tunnel Light / 111cm - 44" / 40Watt / 100-277VAC / J-Box in Series / Frosted Long / 5000K Cool White / Dimmable / Surface Mount

## **Specification**

Model	LX0720	LX1040	LX1E40/60**	LX1060	LX2080	LX2120		
Fixture Watts *	20 W	40 W	10 W	60 W	80 W	120 W		
Ts - Solder Point Temp *	47°C/117°F	52°C/126°F	39°C/102°F	58°C/136°F	55°C/131°F	60°C/140°F		
L70 Rating @ T₄25°C	>110K hours	>100K hours	>140K hours	>90K hours	>100K hours	>90K hours		
Light Beam Angle	155° @ 80% Flux							
Operational Temperature (Ta)	-40° ~ 55°C / -40° ~ 131°F							
Input Voltage	100-277VAC 50~60Hz							
LED Model	Lumileds / Nichia / Cree							
CRI	>80							
Lighting Control	Dimmable (0-10V, PWM) / Motion Sensor							
Warranty	7-Year Limited							
Storage Temperature / Humidity		-40° ~ 8	0°C / -40° ~ 176	6°F / IP69K Ra	ted Fixture			
Transient Surge Protection			6kV / 3kA	( L-L, L-G )				

\* Test data @ Ta 25°C. All values have ±7% tolerance

\*\*LX1E emergency battery back up series is available in standard 40 and 60  $\,$ 

Watt configurations with an all-inclusive inverter, indicator, and test switch.







# ILX3525 Series

TUNNEL APPLICATION LED LUMINARE



# ILX3525 Series

LED Tunnel Lighting



# **Product Information**

The ILX3525 Series is an IP69K-rated compact, high efficacy LED tunnel light designed to prevent moisture, brake dust, exhaust chemicals, and other corrosive content from entering the light fixture. This vibration resistant luminaire incorporates a wide angle butterfly optical system that enables glare free, uniform lighting and ensures safety, security and visual comfort for all motorists.

Advanced thermal technology enables low LED junction temperatures (Tj) with extended lumen maintenance and virtually zero fixture maintenance. The ILX3525 is available with wireless smart technology for greater flexibility and maximizing energy savings.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending

## **Applications**

- Road Tunnels
- Utility Tunnels
- Underpasses

- Undersea Tunnels
- Metro Line Tunnels
- Tunnel Boring



# ILX3525 Series

LED Tunnel Lighting

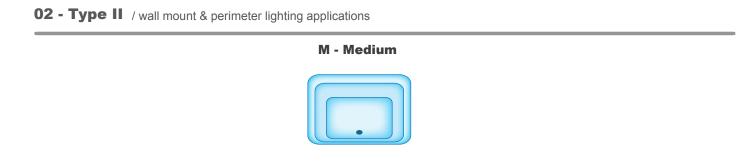


#### **Advantages of ILX3525**

- IP69K rated tri-proof (dust, vapor & water-proof) tunnel light
- Available in 35 ~ 100 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 150 Im / W
- Proprietary wide-angle optics enabling glare-free, uniform lighting for all tunnel applications
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Ultra-wide angle butterfly optics reducing required fixtures by up to 20%
- 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 with enabling greater savings and flexibility
- Available with versatile mounting options for various tunnel applications
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 135,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



# **Optic Options**



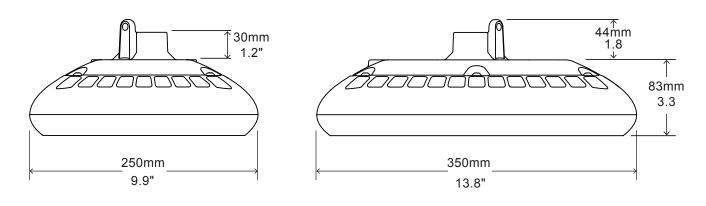
S5 - Type V Rectangular / symmetric for canopies, tunnels, parking garages and wide flood applications



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

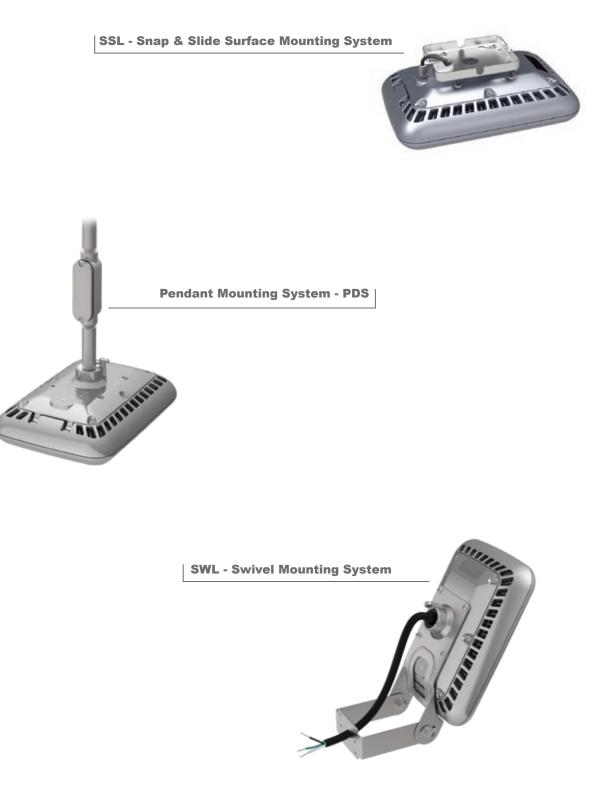


#### **External Dimensions**





# **Mounting Options**





LED Tunnel Lighting

# **Ordering Information**

ILX3525 Wattage	Voltage	Optics	Pitch	-	ССТ	Driver & Control	-	Mounting *
055 = 55Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC	02 = Type II S5 = Type V Rectangular F5 = Type V Frosted	M = Medium L = Long		40 = 4000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control		PDS = Pendant Mount SSL = Snap & Slide Mount SWL = Swivel Mount

NOTE: Gray is the standard exterior color.

\* PDS is the standard mounting system, please specify conduit diameter of NPT 3/4" or 1".

## Example

Part Number	Part Description
ILX3525-075UV-S5M-50ND-SSL	LED Tunnel Light / 75 Watt / 100-277VAC / Type V Rectangular / Medium Pitch /5000K Cool White / Non-Dimmable / Snap & Slide Mount

# **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	38.5 x 28.5 x 16.5 cm 15.2 x 11.25 x 6.5 in	5.7 kg 12.5 lbs

# **Specification**

Fixture Watts	35 W	55 W	75 W	100 W
Ts - Solder Point Temp *	52°C / 126°F	56°C / 133°F	60°C / 140°F	63°C / 145°F
L70 Rating @ T₂25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours
Operational Temperature (Ta)	-40° ~ 50°C / -40° ~ 122°F			
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC / Solar 12-32VDC			
LED Model	Lumileds / Nichia / Cree			
CRI	>75			
Lighting Control	Dimmable (0-10V, PWM) / Smart Control			
Warranty	10-Year Limited			
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture			
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA			

\* Test data @ Ta: 25°C. All values have ±7% tolerance







# RVVB E40 Series

LED STREET LIGHT BULB



# **RWB E40** Series



## **Product Information**

The RWB E40 is a technologically advanced E40 standard LED street light bulb designed specifically for the bulb retrofit market. Constructed from high grade raw materials, its compact IP66 rugged design incorporates the industry's highest power density. Advanced Thermal Technology enables low LED junction temperatures (Tj) to ensure long LED life with extended lumen maintenance.

The RWB E40 is an ultra-bright industry leading high efficacy street light bulb that provides a cost-effective retrofit solution with a short ROI period for budgetary street lighting projects. It's backed by an exceptional 5-year limited warranty.

US and international patents pending.





Wet Location

# **Advantages of RWB E40**

- Technologically advanced LED E40 standard street light bulbs
- Energy efficient high efficacy (180lm/W) E40 LED street light bulb
- Direct replacement of up to 250W E40 standard street light bulbs
- Small footprint design available in 20 / 40 / 60 watt configurations
- Rotatable light engine enables field adjustable light direction after installation
- Wide angle optics with built in 15° vertical tilt for better uniformity
- L70 ≥ 30,000 hours with an operational temperature of -20°C ~ 50°C
- Advanced thermal technology enables low LED junction temperatures (Tj) for longer lifespan
- High efficiency LED driver enables ballast free direct AC operation for maintenance free lifespan
- Cost effective retrofit solution with a short ROI period for budgetary street lighting projects
- IP66 rated with a 5-year limited warranty
- Designed and engineered in the USA

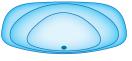


#### E40 LED Street Light Bulb

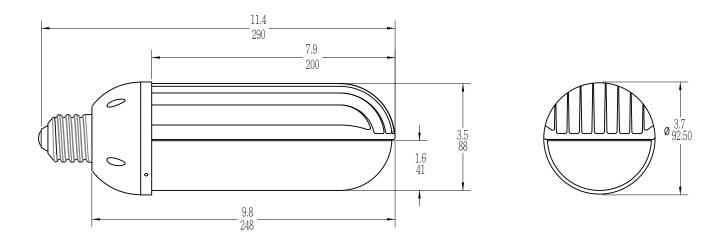
## **Optics Options**



# M - Medium



## **External Dimensions**



## **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight
RWB-E40	9	35.5 x 33.5 x 33.5 cm 14 x 13 x 13 in	16.6 kg 36.5 lbs

### **Applications**

- Residential Streets
- Urban Roads

- Boulevards
- Perimeters

- Parking Lots
- Walkways



## **RWB E40** Series

E40 LED Street Light Bulb

## **Ordering Information**

RWB – Wattage	Voltage	-	Optics	-	ССТ	Driver & Control*
	/att   UV = 100-277VAC /att   HV = 200-480VAC /att		02M = Type II Clear Medium 2FL = Type II Frosted Long		30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable NS = Daylight Sensor

NOTE: Daylight sensing is available with externally mounted NEMA / ZHAGA standard receptacle module.

### Example

Part Number	Part Description
RWB-E44UV-02M-50ND	LED E40 Standard Street Light Bulb / 40 Watt / 100-277VAC / Type II Clear Medium / 5000K Cool White / Non-Dimmable

### **Specification**

Fixture Watts	20 W	40 W	60 W				
Ts - Solder Point Temp*	62°C / 144°F	68°C / 154°F	76°C / 169°F				
L70 Rating @ Ta 25°C	>75K Hours	>65K Hours	>50K Hours				
Operational Temperature (Ta)	-25° ~ 50°C / -13° ~ 122°F						
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC						
LED Model	Nichia 3030						
CRI	>85						
Lighting Control	Daylight Sensor						
Warranty	5-Year Limited						
Storage Temp. / Humidity	-25° ~ 80°C / -13° ~ 176°F						
Transient Surge Protection	6kV / 3kA ( L-L, L-G )						

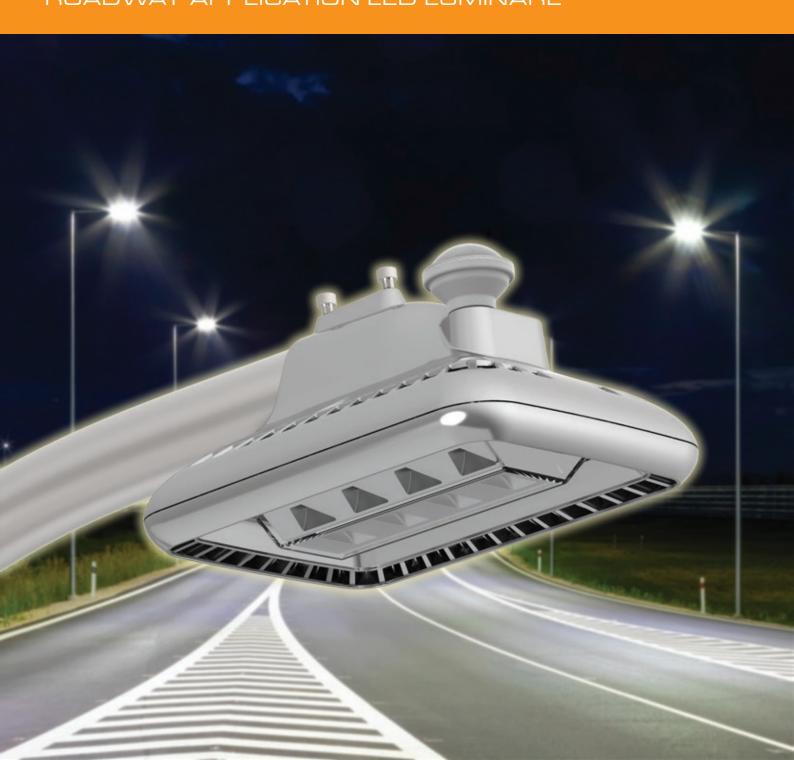
\* Test data @ Ta: 25°C. All values have ±7% tolerance







# RVL3525 Series ROADWAY APPLICATION LED LUMINARE







## **Product Information**

The RWL3525 is an innovative smart roadway light fixture with wide angle butterfly optical system delivering high efficacy, glare-free uniform lighting for residential and urban roads. Its technologically advanced design is available with interactive wireless technology offering smart cities future-proof solutions for maximizing energy savings and lowering overall maintenance costs.

Patented thermal management system enables low LED junction temperatures (Tj), extended lumen maintenance and virtually zero fixture maintenance. The durable RWL3525 Series has an IP68-rating for complete weather protection and a best in class 10-year limited warranty.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending.

## **Applications**

- Residential Streets
- Urban Roads
- Parking Lots

- Perimeters
- Parks and Playgrounds
- Walkways



## LED Roadway Lighting



#### **Advantages of RWL3525**

- Future-proof LED roadway / street light
- Available in 35 ~ 100 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 150 lm / W
- 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
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Ultra-wide angle butterfly optics enabling longer pole spacing
- Optional wireless smart control system with daylight sensor enabling greater savings and flexibility
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 135,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



LED Roadway Lighting

## **Optic Options**

02 - Type II Roadway Lighting / asymmetric for street and pedestrian walkway applications



S5 - Type V Rectangular / symmetric for street, parking lot and pedestrian walkway applications

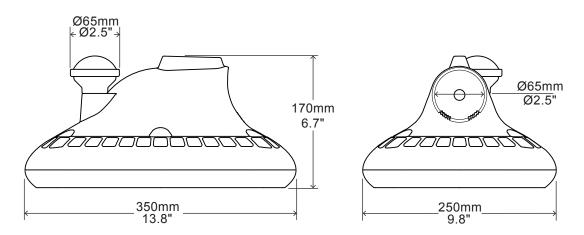


F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications

L - Long



#### **External Dimensions**





## LED Roadway Lighting

#### **Ordering Information**

RWL3525 - Wattage	Voltage *	Optics	Pitch -	CCT   Driver & Control **
055 = 55Watt 075 = 75Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC SP = 12-32VDC	02 = Type II S5 = Type V Rectangular F5 = Type V Frosted	M = Medium L = Long	30 = 3000K ND = Non-Dimmable 40 = 4000K DM = Dimmable 50 = 5000K DS = Daylight Sensor SC = Smart Control

NOTE: Gray is the standard exterior color.

\* Input voltage 12-32VDC available only for solar powered models with DC driver ranging from 35 - 65 Watts. \*\* Smart control & daylight sensor available with ZHAGA standard receptacle module for AC powered models only.

#### **Example**

Part Number	Part Description
RWL3525-075UV-S5M-50ND	LED Roadway & Area Light / 75 Watt / 100-277VAC / Type V Rectangular / Medium Pitch / 5000K Cool White / Non-Dimmable

### **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	38.5 x 28.5 x 21.5 cm 15.2 x 11.2 x 8.5 in	6.2 kg 13.6 lbs

## **Specification**

Fixture Watts	35 W	55 W	75 W	100 W				
Ts - Solder Point Temp *	52°C / 126°F	63°C / 145°F						
L70 Rating @ T₄25°C	> 175K hours > 160K hours > 150K hours > 135K hours							
Operational Temperature (Ta)	-40° ~ 50°C / -40° ~ 122°F							
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC / Solar 12-32VDC							
LED Model	Lumileds / Nichia / Cree							
CRI	>75							
Lighting Control	Dimmable (0-10V, PWM) / Smart Control / Daylight Sensor							
Warranty	10-Year Limited							
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture							
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA							

\* Test data @ Ta: 25°C. All values have ±7% tolerance







## ROADWAY & AREA-SITE APPLICATION LED LUMINARE



LED Roadway & Area-Site Lighting



#### **Product Information**

The RWLII series is a classic round shaped roadway luminaire with the latest technologies to offer great flexibility for all basic street lighting projects. Its proprietary optical system enables high efficacy, glare-free uniform lighting creating a safe and attractive environment while reducing the carbon footprint for municipalities.

RWLII provides a higher value to cities by maximizing energy savings and lowering maintenance costs. This IP68-rated street light is designed to withstand the most challenging outdoor weather conditions and comes with an industry leading 10-year limited warranty.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending

### **Applications**

- Residential Streets
- Urban Roads
- Motorways

- Boulevards
- Perimeters
- Parking Lots



LED Roadway & Area-Site Lighting



#### **Advantages of RWLII**

Years Warranty

• Available in 100 ~ 220 Watt configurations with various optics

Impact Resistance

• Ultra-bright high efficacy up to 170 lm / W

Wet Location

- Proprietary reflector optics enabling glare-free uniform lighting, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Dark Sky compliant / full cut-off optics
- Ideal for area walkway, street and parking lots
- 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



LED Roadway & Area-Site Lighting

## **Optic Options**



02 - Type II / asymmetric for street and pedestrian walkway applications

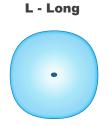
#### **R5 - Type V Round** / symmetric for street, parking lot and pedestrian walkway applications



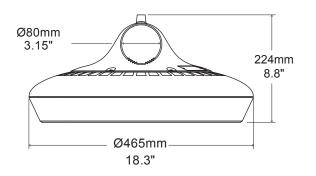
S5 - Type V Square / symmetric for street, parking lot and pedestrian walkway applications



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



#### **External Dimensions**





## **Packaging Information**

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 31 cm 19.7 x 19.7 x 12.2 in	13 kg 28.6 lbs

LED Roadway & Area-Site Lighting

## **Ordering Information**

RWLII	Wattage	Voltage	-	Optics	Pitch	-	ССТ	Driver & Control
	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			ND = Non-Dimmable DM = Dimmable

NOTE: Gray is the standard exterior color.

### Example

Part Number	Part Description
RWLII150UV-R5M-50DM	LED Roadway & Area Light / 150 Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable

## **Specification**

Fixture Watts	100 W	125 W	150 W	185 W	220 W			
Ts - Solder Point Temp *	52°C / 125°F	55°C / 131°F	59°C / 138°F	64°C / 147°F	68°C / 154°F			
L70 Rating @ T₄ 25°C	>185K hours	>180K hours	>175K hours	>160K hours	>150K hours			
Operational Temperature (Ta)	-40° ~ 55°C / -40° ~ 131°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)							
Warranty	10-Year Limited							
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture							
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA							

 $^{\ast}$  Test data @ Ta: 25°C. All values have ±7% tolerance







# RWL600 Series

## ROADWAY & AREA-SITE APPLICATION LED LUMINAIRE



## **RWL600** Series

LED Roadway & Area-Site Lighting



## **Product Information**

The RWL600 series is a corrosion resistant, low profile and energy efficient roadway & area site luminaire offering a cost effective solution for urban roads, walkways, parking lots and construction sites. It is available with an optional dusk to dawn built-in daylight sensor with a field serviceable modularized light engine and LED driver, prolonging fixture usage far beyond its warranty period.

The RWL600 incorporates the industry's highest efficacy light output and ultra-wide angle optics delivering outstanding visibility while improving the safety and security for area lighting applications. Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life.

US & International patents pending

#### **Applications**

- Residential Streets
- Urban Roads

- Parks & Playgrounds
- Campuses

- Parking Lots
- Walkways



www.lightemittingdesigns.com e-mail: info@lightemittingdesigns.com

# RWL600 Series

#### LED Roadway & Area-Site Lighting



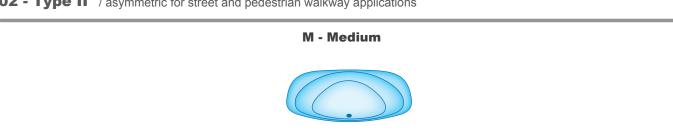


### **Advantages of RWL600**

- Energy efficient and a cost effective LED roadway & area site luminaire
- Available in 30 / 50 / 70Watt configurations
- Optional solar powered DC input voltage available for 25 ~ 70 Watt systems
- Ultra-bright industry leading high efficacy up to 180 lm /W
- Field serviceable cost effective modularized light engine and LED driver
- Wide angle optics with built in 10° vertical tilt for more uniform lighting distribution
- Advanced thermal technology for maintenance free long life
- Optional smart control, daylight sensor and surge & lightning protection with externally mounted ZHAGA standard receptacle
- L70  $\ge$  50,000 hours with an operating temperature of -40°C ~ 50°C
- Titanium rated high efficiency LED driver with smart circuitry
- Ideal for budgetary street lighting projects
- SUS 316 marine rated stainless steel housing for superior weather and corrosion protection
- 15-year limited warranty on housing & structure
- 5 year limited warranty on light engine and LED driver
- Designed and Engineered in the USA



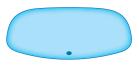
## **Optics Options**



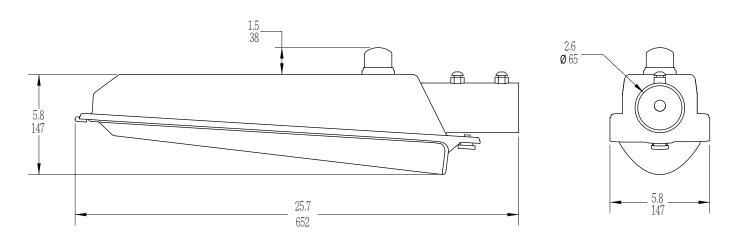
**02 - Type II** / asymmetric for street and pedestrian walkway applications

F2 - Type II Opaque - Frosted / asymmetric for ultra uniform & low glare applications

L-Long



### **External Dimensions**



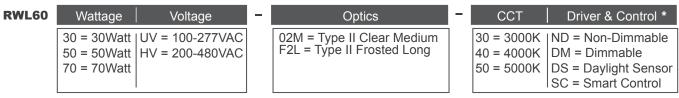
## **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight
RWL600	1	67 x 7 x 10 cm 26.4 x 2.8 x 4 inch	2.7 kg 6 lbs



LED Roadway & Area-Site Lighting

## **Ordering Information**



\* Smart control & daylight sensor available with externally mounted ZHAGA standard receptacle module.

## Example

Part Number	Part Description
RWL6030UV-02M-50ND	LED Roadway & Area Light / 30 Watt / 100-277VAC / Type II Clear Lens Medium / 5000K Cool White / Non-Dimmable

## **Specification**

Fixture Watts	30 W 50 W 70 W							
Ts - Solder Point Temp *	56°C / 133°F 62°C / 144°F 69°C / 15							
L70 Rating @ T₂25°C	> 65K hours	> 55K hours	> 50K hours					
Operational Temperature (Ta)	-40° ~ 50°C / -40° ~ 122°F							
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC							
LED Model	Nichia 3030							
CRI	85							
Lighting Control	Dimmable (0-1	0V, PWM) / Smart Control /	Daylight Sensor					
Warranty	5-Year Limited							
Storage Temp.	-40° ~ 80°C / -40° ~ 176°F / IP66 Rated Fixture							
Transient Surge Protection	10kV / 5kA (L-L, L-G)							

\* Test data @ Ta: 25°C. All values have ±7% tolerance







# INDUSTRIAL LINEAR LED LUMINARE



LED Industrial Linear Lighting



## **Product Information**

The LU Series is an IP67-rated LED linear industrial utility light providing reliability and visual clarity for a variety of low to mid-bay lighting applications such as parking structures, manufacturing facilities and warehouses.

This tri-proof fixture delivers ultra-wide glare free, 155° uniform lighting with an optional all-inclusive emergency battery backup system and motion sensor with soft-dimming function.

A light-weight, robust structural design with IK10 impact-rating ensures a long-lifespan for all industrial applications. The LU Series incorporates versatile mounting systems and has an accessible junction box for easy wiring and end-to-end installation.

Patent No.US 10,222,052 B1 Other US and international patents pending



Wide Angle Optics

### **Applications**

- Manufacturing Plants
- Warehouses
- Cold-Storage Facilities
- Parking structures
- Telecom Centers
- Clean Rooms
- Supermarkets



#### LED Industrial Linear Lighting









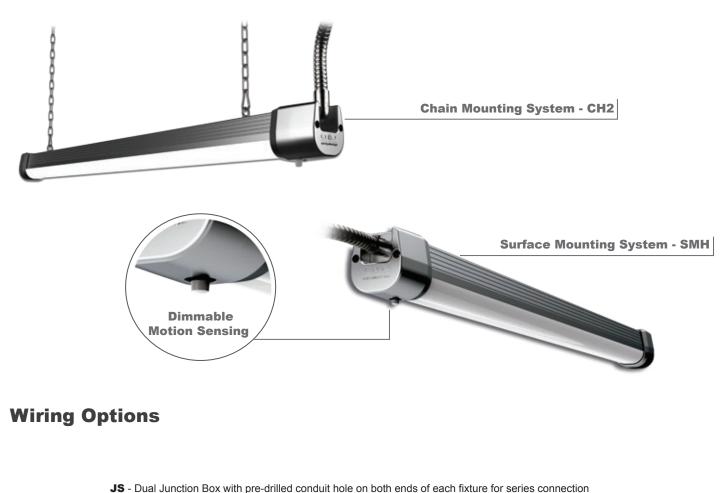
## **Advantages of LU Series**

- IP67 rated tri-proof (dust, vapor & water-proof) LED linear industrial utility light
- High-efficacy fixture with up to 170 lm/W
- Flexible wattages and lengths ranging from 20~120 Watt
- Robust design with IK10-rated fixture housing
- Glare free 155° wide angle optics reducing fixture count by up to 25%
- Lightweight design with an accessible junction box for simplified installation
- 80 CRI for exceptional color rendition
- Optional smart motion sensing with a soft-dimming function
- Optional all-inclusive emergency battery backup system of 10 Watt for 90 minutes
- · Versatile mounting options for all types of applications
- L70 ≥ 100,000 hours with 7-year limited warranty
- Designed and engineered in the USA



LED Industrial Linear Lighting

## **Mounting Options**

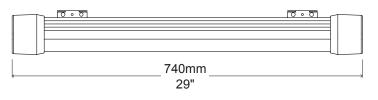


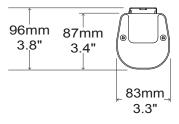
JP - Single Junction Box with pre-drilled conduit hole on one end of each fixture for parallel connection
WS - Dual Pre-Installed Cable Glands with single cable wire on one side of each fixture for series connection
WP - Single Pre-Installed Cable Gland with cable wire on one side of each fixture for parallel connection



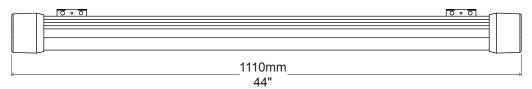
#### **External Dimensions**

#### LU0720

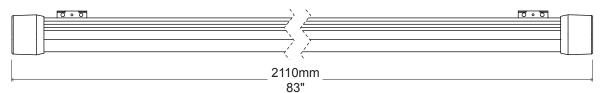




## LU1040 / LU1E40 / LU1060 / LU1E60



## LU2080 / LU2120



## **Packaging Information**

Model	Case Quantity	Dimensions (L x W x H)	Weight
LU0720	6	83 x 36 x 21 cm 32.7 x 14 x 8.3 in	13 kg 28.6 lbs
LU1040	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LU1E40/1E60	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LU1060	6	117 x 36 x 21 cm 46 x 14 x 8.3 in	18 kg 40 lbs
LU2080	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs
LU2120	4	217 x 24 x 21 cm 85.5 x 9.5 x 8.3 in	26.5 kg 58.4 lbs



### **Ordering Information**

LU	Length & Wattage*	-	Wiring**	Optics	-	CCT	Driver & Control	-	Mounting***
	0720 = 74cm / 29" / 20Watt 1040 = 111cm / 44" / 40Watt 1E40 = 111cm / 44" / 40/10Watt 1060 = 111cm / 44" / 60Watt 1E60 = 111cm / 44" / 60/10Watt 2080 = 211cm / 83" / 80Watt 2120 = 211cm / 83" / 120watt		JS = J-Box in Series JP = J-Box in Parallel WS = Cable in Series WP = Cable in Parallel	FL = Frosted Long CM = Clear Medium		40 = 4000K	ND = Non-Dimmable DM = Dimmable MS = Motion Sensor		SMH = Surface Mount CH2 = 2 Chain Mount

\* LU1E emergency battery back up series is available in standard 40 and 60 Watt configurations with an all-inclusive charger, battery , indicator and test switch.

\*\*When ordering JS or JP Wiring options, please specify required conduit hole diameter.

\*\*\*Multi Mount system comes standard enabling surface, threaded rod and chain mounting.

#### Example

Part Number	Part Description
LU1040-JSFL-50DM-SMH	LED Industrial Linear Light / 111cm - 44" / 40 Watt / 100-277VAC / J-Box in-Series / Frosted Long / 5000K Cool White / Dimmable / Surface Mount

### **Specification**

Model	LU0720 LU1040 LU1E40/60** LU1060 LU2080 LU2120								
Fixture Watts *	20 W 40 W 10 W 60 W 80 W 12								
Ts - Solder Point Temp *	47°C/117°F 52°C/126°F 39°C/102°F 58°C/136°F 55°C/131°F 60°C								
L70 Rating @ T₄25°C	>110K hours >100K hours >140K hours >90K hours >100K hours >90								
Light Beam Angle	155° @ 80% Flux								
Operational Temperature (Ta)	-40° ~ 55°C / -40° ~ 131°F								
Input Voltage	100-277VAC 50~60Hz								
LED Model	Lumileds / Nichia / Cree								
CRI			>	80					
Lighting Control		Dimma	ble (0-10V, PW	'M) / Motion Se	ensor				
Warranty	7-Year Limited								
Storage Temperature / Humidity	-40° ~ 80°C / -40° ~ 176°F / IP67 Rated Fixture								
Transient Surge Protection			6kV / 3kA (	( L-L, L-G )					

\* Test data @ Ta 25°C. All lumen values have ±7% tolerance

\*\*LU1E emergency battery back up series is available in standard 40 and 60

Watt configurations with an all-inclusive inverter, indicator, and test switch.







## INDUSTRIAL GRADE LED LUMINARE



LED Industrial Mid-Low Bay Lighting



#### **Product Information**

The IL280 series is a compact, low profile LED industrial light designed to replace traditional HID fixtures up to 250 Watt. Its patented thermal management system ensures low operating temperatures and an industry leading life expectancy of over 145,000 hours, with virtually zero fixture maintenance.

Proprietary optical system enables glare-free uniform lighting to ensure improved productivity and safety for all industrial applications. This IP68-rated robust fixture is available with optional daylight & motion sensing for maximum energy savings and greater flexibility, all with an exceptional 10-year limited warranty.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending



LED Industrial Mid-Low Bay Lighting





### **Advantages of IL280**

- Compact low profile design, LED industrial light
- Available in 35 / 55 / 75 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 165 lm / W
- Proprietary optical system enabling glare-free uniform lighting, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Optional wireless smart control system with motion & daylight sensor enabling greater savings
  and flexibility
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Available with versatile mounting options for various industrial applications
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 145,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



## LED Canopy Lighting



#### **Applications**

- Manufacturing Plants
- Cold Storage Facilities
- Warehouses
- Airports

- Multi-level Parking Garages
- Underground Parking Garage
- Carports & Garages

- Gas Stations
- Building Overhangs
- Entry Canopy
- Walkway Canopy

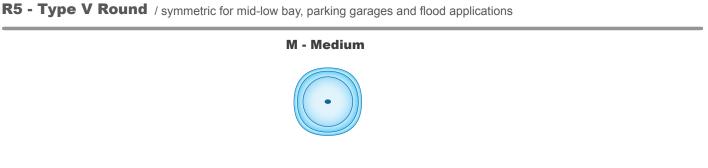
#### LED Parking Garage Lighting





LED Industrial Mid-Low Bay Lighting

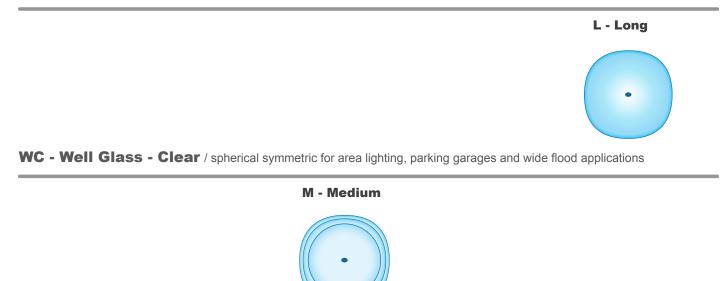
## **Optics Options**

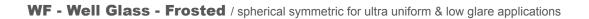


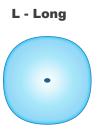
**S5 - Type V Square** / symmetric for mid-low bay, aisle and flood applications







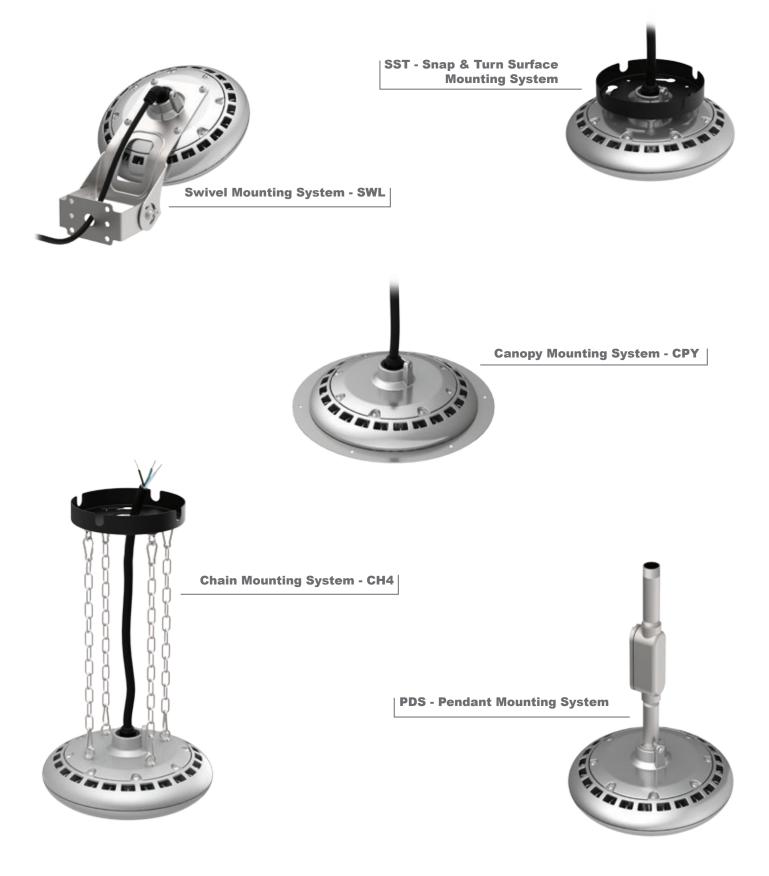






LED Industrial Mid-Low Bay Lighting

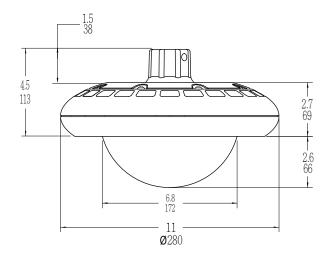
## **Mounting Options**

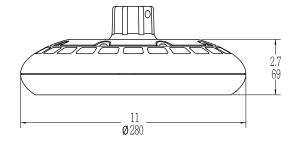




LED Industrial Mid-Low Bay Lighting

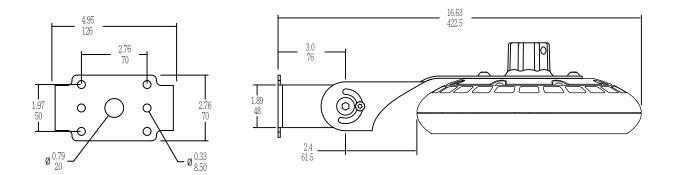
#### **External Dimensions**





**IL280 Well Glass** 

IL280



## **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight
IL280	1	30 x 30 x 13.3 cm 11.2 x 11.2 x 5.3 in	3.9 kg 8.6 lbs
IL280 Well Glass	1	30 x 30 x 20 cm 11.2 x 11.2 x 7.8 in	4 kg 8.8 lbs



LED Industrial Mid-Low Bay Lighting

## **Ordering Information**

IL28	Wattage	Voltage	-	Optics	Pitch	-	ССТ	Driver & Control	-	Mounting *
	55 = 55Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC		S5 = Type V Square	S = Short M = Medium L = Long		40 = 4000K	ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor MS = Motion Sensor SC = Smart Control		PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount SWL = Swivel Mount CPY = Canopy Mount

\*PDS is the standard mounting system, Please specify conduit diameter of NPT  $\frac{3}{4}$ " or 1". NOTE: Gray is the standard exterior color.

#### Example

Part Number	Part Description
IL2835UV-R5M-50DM-SWL	IL280 LED Industrial Light / 35 Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable / Swivel Mount

## **Specification**

Fixture Watts	35 W 55 W 75 W						
Ts - Solder Point Temp*	53°C / 127°F 57°C / 134°F 62°C / 144						
L70 Rating @ T₄25°C	>175K Hours	>160K Hours	>145K Hours				
Operational Temperature (Ta)	-40° ~ 50°C / -40° ~ 122°F						
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC / 127~390VDC						
LED Model	Nichia / Lumileds / Cree						
CRI	>75						
Lighting Control	Dimmable (0-10V, PWM) / Smart Control / Daylight & Motion Sensor						
Warranty	10-Year Limited						
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture						
Transient Surge Protection	6kV / 3kA ( L-L, L-G )						

\* Test data @ Ta: 25°C. All lumen values have ±7% tolerance







INDUSTRIAL GRADE LED LUMINARE



\_ED Industrial Mid-Low Bay Lighting



## **Product Information**

The IL3525 Series is the next generation of IP68-rated LED industrial lighting for mid-low–bay applications. Its compact design incorporates the industry's highest power density and is available in numerous choices of mounting systems and optics for a wide range of light distribution patterns.

The butterfly optical design delivers wide angle ultra-bright uniform light output, and its patented thermal technology ensures low LED junction temperatures (Tj) with extended lumen maintenance and virtually zero fixture maintenance. The IL3525 is available with optional wireless technology and has an industry leading 10-year limited warranty.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending



#### \_ED Industrial Mid-Low Bay Lighting



### **Advantages of IL3525**

- Technologically advanced, low profile LED industrial light
- Available in 35 ~ 100Watt configurations with various optics
- · Flexible design with versatile mounting options for all applications
- Cost effective solution with a short ROI period
- Ultra-bright industry leading high efficacy up to 150 lm / W
- Proprietary reflector optics enabling glare-free uniform lighting for all working environments, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Ultra-wide angle butterfly optics reducing required fixtures by up to 25%
- Optional wireless smart control system with motion & daylight sensor enabling greater savings and flexibility
- Titanium rated high efficiency LED driver with smart circuitry
- L70 ≥ 135,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA



#### LED Billboard Lighting



#### **Applications**

- Outdoor Billboards
- Murals & signage
- Painted Billboards
- Highway Signage

- Manufacturing Plants
- Cold Storage Facilities
- Warehouses
- Airports

- Gas Stations
- Building Overhangs
- Entry Canopies
- Walkway Canopies





LED Industrial Mid-Low Bay Lighting

## **Optic Options**

02 - Type II / wall mount & perimeter lighting applications



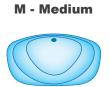
S5 - Type V Rectangular / symmetric for canopies, tunnels, parking garages and wide flood applications



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



B2 - Billboard Lighting / asymmetric for billboards and signage applications





### IL3525 Series

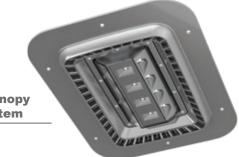
LED Industrial Mid-Low Bay Lighting

#### **Mounting Options**









**CPY** - Petroleum Canopy Mounting System



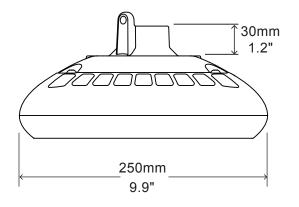


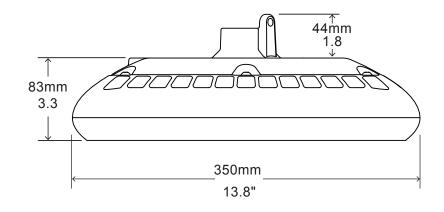


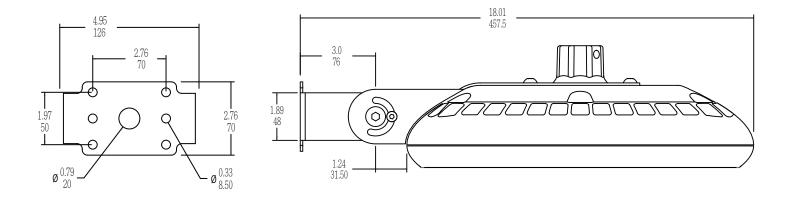
#### IL3525 Series

LED Industrial Mid-Low Bay Lighting

#### **External Dimensions**







#### **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
1	38.5 x 28.5 x 16.5 cm 15.2 x 11.25 x 6.5 in	5.7 kg 12.5 lbs



## IL3525 Series

LED Industrial Mid-Low Bay Lighting

#### **Ordering Information**

IL3525	Wattage	Voltage *	Optics	Pitch	-	ССТ	Driver & Control **	Mounting
	055 = 55Watt 075 = 75Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC SP = 12-32VDC	02 = Type II B2 = Billboard S5 = Type V Rectangular F5 = Type V Frosted	M = Medium L = Long		40 = 4000K	ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor MS = Motion Sensor SC = Smart Control	PDS = Pendant Mount SSL = Snap & Slide Mount CH4 = 4 Chain Mount SWL = Swivel Mount CPY = Canopy Mount

NOTE: Gray is the standard exterior color. Billboard application please specify extension arm pipe diameter and thread size.

PDS is the standard mounting system, please specify conduit diameter of NPT 3/4" or 1".

\* Input voltage 12-32VDC available only for solar powered models with DC driver ranging from 35 - 65 Watts.

\*\* Smart control & daylight sensor available with ZHAGA standard receptacle module for AC powered models only.

#### Example

Part Number	Part Description			
IL3525-075UV-S5M-50ND-SSL	LED Industrial Light / 75 Watt / 100-277VAC / Type V Rectangular / Medium Pitch / 5000K Cool White / Non-Dimmable / Snap & Slide Mount			

#### **Specification**

Fixture Watts	35 W	55 W	75 W	100 W		
Ts - Solder Point Temp *	50°C / 122°F	54°C / 131°F	58°C / 136°F	62°C / 144°F		
L70 Rating @ T₂25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours		
Operational Temperature (Ta)		-40° ~ 50°C /	-40° ~ 122°F			
Input Voltage	100~277\	AC 47~63Hz Option	al 200~480VAC / 127	~390VDC		
LED Model	Lumileds / Nichia / Cree					
CRI	>75					
Lighting Control	Dimmable (0-10V, PWM) / Smart Control / Daylight & Motion Sensor					
Warranty	10-Year Limited					
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture					
Transient Surge Protection	6kV / 3kA (L-L, L-G)					

\* Test data @ Ta: 25°C. All lumen values have ±7% tolerance







INDUSTRIAL GRADE LED LUMINARE



\_ED Industrial High Bay Lighting



#### **Product Information**

The IL450 Series is a technologically advanced LED industrial luminaire available in numerous choices of optics and versatile mounting systems for a variety of mid-high bay industrial applications. Its robust die-cast aluminium housing incorporates a patented air bi-pass convection system ensuring long LED life with extended lumen maintenance and virtually zero fixture maintenance.

The proprietary reflector controlled optical system delivers high efficacy, glare-free uniform lighting for exceptional visibility in all production processes. The IL450 is an IP68 rated robust industrial fixture available with optional wireless smart control.

Patent No.US 8,272,765 B2 - US 8,757,842 B2 - US 9,383,084 B2 Other US and international patents pending.



LED Industrial High Bay Lighting





#### **Advantages of IL450**

- Technologically advanced LED industrial light
- Flexible design with versatile mounting options for all applications
- Optional upward lighting module for retail applications to maximize space and comfort
- Cost effective solution with a short ROI period
- Available in 100 ~ 220 Watt configurations with various optics for different applications
- Ultra-bright industry leading high efficacy up to 170 lm / W
- Proprietary reflector optics enabling glare-free uniform lighting for all working environments, eliminating the need for costly and fragile plastic lenses
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- IP68 rated tri-proof (dust, vapor & water-proof) luminaire
- Optional wireless smart control system with motion & daylight sensor enabling greater savings
  and flexibility
- Versatile mounting options for various industrial 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



LED Industrial High Bay Lighting



#### **Uplight Module Option**

With innovation and flexibility in mind, Light Emitting Designs introduces the first true modularized, dual-sided, light-emitting highbay fixture. The uplight was designed and engineered specifically for applications requiring visual depth and ceiling height perception, such as big-box retail stores, supermarkets, airports, and upscale venues.

The uplight module is designed with a dedicated heatsink and is IP68-rated (water, vapor and dust-proof), providing over 2,500 lumens of upward light. The module is designed to provide discreet upward lighting without diminishing the aesthetics of the IL450.

Uplighting is available in all color temperatures and can be used with PDS or CH4 mounting options only. See the ordering information section for more about uplighting.





#### LED High Mast Lighting



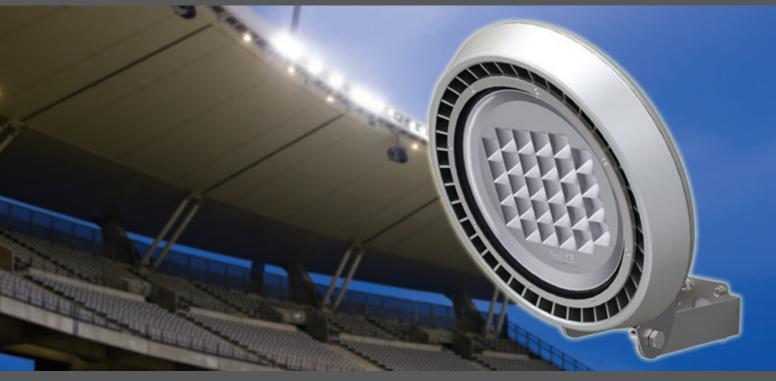
#### **Applications**

- Manufacturing Plants
- Warehouses
- Cold Storage
- Telecom Centers

- Outdoor Billboards
- Murals & Signage
- Pained Billboards
- Highway Signage

- Supermarkets
- Airports
- Retail Stores
- Sports Stadiums

#### Stadium / Sport Arena LED Lighting





LED Industrial High Bay Lighting

#### **Optic Options**

02 - Type II / wall mount & perimeter lighting applications



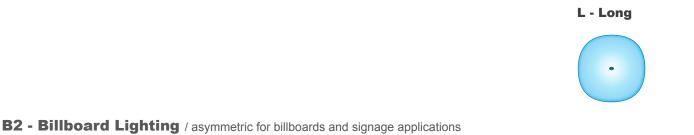
R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood applications

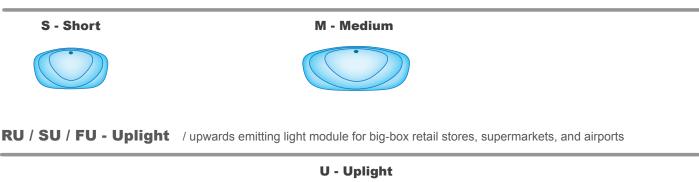


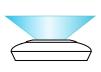
#### S5 - Type V Square / symmetric for high-bay, aisle, high-mast and flood applications



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



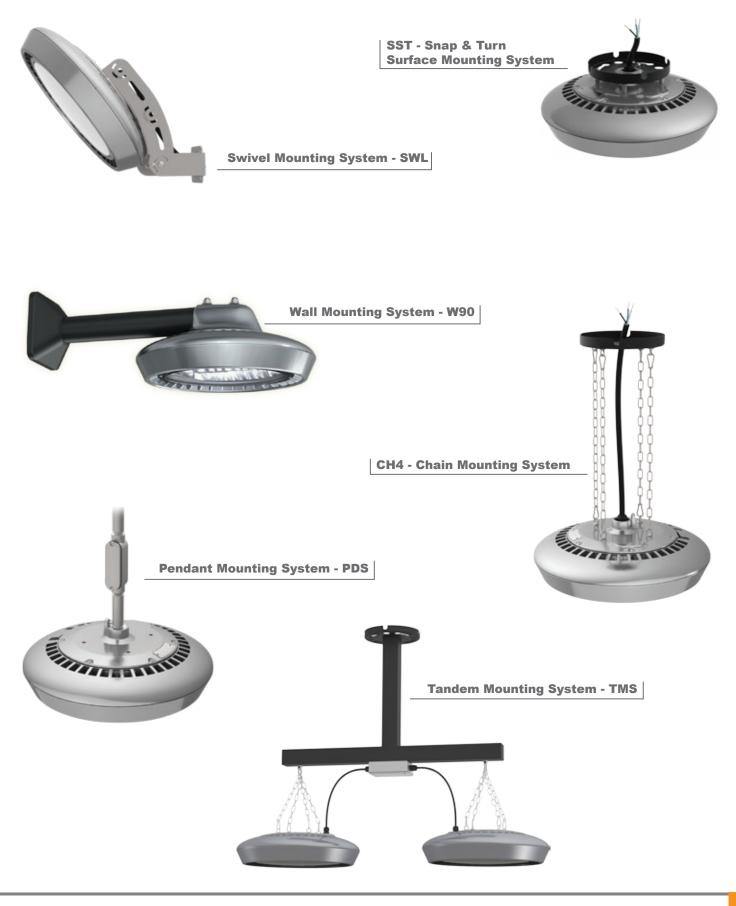






LED Industrial High Bay Lighting

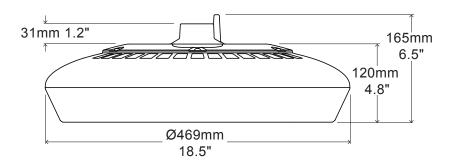
#### **Mounting Options**

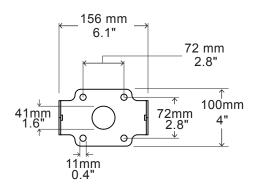


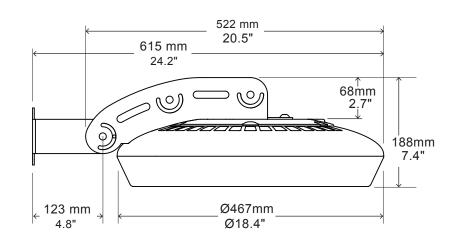


LED Industrial High Bay Lighting

#### **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



LED Industrial High Bay Lighting

#### **Ordering Information**

IL45	Wattage	Voltage	-	Optics *	Pitch	-	CCT	Driver & Control	-	Mounting **
	100 = 100W 125 = 125W 150 = 150W 185 = 185W 220 = 220W	UV = 100-277VAC HV = 305-528VAC DV = 127-380VDC		$\begin{array}{l} 02 = Type \ II \\ R5 = Type \ V \ Round \\ S5 = Type \ V \ Square \\ F5 = Type \ V \ Frosted \\ RU = R5 + Uplight \\ SU = S5 + Uplight \\ FU = F5 + Uplight \\ B2 = Billboard \end{array}$	L = Long		40 = 4000K	ND = Non-Dimmable DM = Dimmable DS = Daylight Sensor MS = Motion Sensor SC = Smart Control		PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount W90 = 90° Wall Mount SWL = Swivel Mount TMS = Tandem Mount

NOTE: Gray is the standard exterior color.

\* Uplight module is only available with CH4 & PDS mounting systems.

\*\* PDS is the standard mounting system, please specify conduit diameter of NPT 3/4" or 1".

#### Example

Part Number	Part Description
IL45150UV-R5M-50DM-PDS	LED Industrial Light / 150Watt / 100-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable / Pendant Mount

#### **Specification**

Fixture Watts	100 W	125 W	150 W	185 W	220 W		
Ts - Solder Point Temp *	50°C / 122°F	53°C / 127°F	56°C / 133°F	61°C / 142°F	66°C / 151°F		
L70 Rating @ T₂ 25°C	>185K hours	>180K hours	>175K hours	>160K hours	>150K hours		
Operational Temperature (Ta)		-40°	~ 55°C / -40° ~ 1	31°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 / Daylight & Motion Sensor						
Warranty	10-Year Limited						
Storage Temp. / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP68 Rated Fixture						
Transient Surge Protection	6kV / 3kA (L-L, L-G)						

\* Test data @ Ta: 25°C. All lumen values have ±7% tolerance







# **CB** Series

# LED LOW BAY RETROFIT LIGHT BULB



#### **CB** Series

#### LED Low Bay Retrofit Light Bulb



#### **Product Information**

The CB Series is a high efficacy LED corn bulb delivering 360° spherical wide angle optics and providing a cost-effective retrofit solution for mainstream HID lamps with standard E26 and E40 bulb sockets. Advanced Thermal Technology enables low LED junction temperatures (Tj) to ensure long LED lifespan. Ideal for budgetary low bay lighting projects, the CB Series provides significant savings with virtually zero costs associated with labor and parts, while driving quality and efficiency.





#### **Advantages of CB E40**

- Standard E26 & E40 corn bulb retrofit solution
- Ultra-bright high efficacy of up to 165lm / W
- Available in 20 & 40Watt configurations
- Direct replacement of traditional HID bulbs
- 360° spherical wide-angle optics with 80CRI
- Low LED junction temperatures (Tj) for maintenance free lifespan
- Ideal for budgetary lighting projects
- Ballast free direct AC operation for low maintenance cost
- L70 Rating ≥ 40,000 hours and 5-year limited warranty
- Designed and engineered in the USA



#### **Applications**

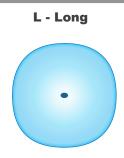
- Manufacturing Plants
- Warehouse
- Public Buildings
- Retail Stores
- Supermarkets
- Basements

#### **Optics Options**

SC - Spherical Round Clear / spherical symmetric for area lighting, parking garages and wide flood applications

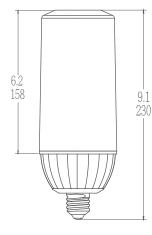
# M - Medium

SF - Spherical Round Frosted / spherical symmetric for ultra uniform & low glare applications

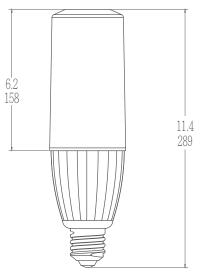


#### **External Dimensions**





**CB E40** 





LED Low Bay Retrofit Light Bulb

#### **Ordering Information**

СВ –	Socket	Wattage	-	Voltage	Optics	-	ССТ
	E2 = E26 - E27 E4 = E40	20 = 20 Watt 40 = 40 Watt		UV = 100-277VAC HV = 200-480VAC	SCM = Spherical Clear Medium SFL= Spherical Frosted Long		30 = 3000K 40 = 4000K 50 = 5000K

NOTE: White is the standard color for socket and housing.

#### Example

Part Number	Part Description			
CB-E220-UVSCM-50	LED Corn Light Bulb / E26 - E27 / 20 Watt / 100-277VAC / Spherical Clear Medium / 5000K Cool White			

#### **Packaging Information**

Model	Case Quantity	Dimensions (LxWxH)	Weight	
CB-E40	9	32 x 32 x 32 cm 12.6 x 12.6 x 12.6 in	7.8 kg 17.2 lbs	

#### **Specification - Spherical Clear Medium**

Fixture Watts	20 W	40 W				
Bulb Socket	E26 - E27	E40				
Ts - Solder Point Temp *	62°C / 144°F	71°C / 160°F				
L70 Rating @ T₂25°C	> 50K hours	> 40K hours				
Operational Temperature (Ta)	-25° ~ 45°C / -13° ~ 113°F					
Input Voltage	100~277VAC 47~63Hz Optional 200~480VAC					
LED Model	Nichia / Lumileds					
	> 8	5				
Lighting Control	Non Di	mmable				
Storage Temperature	-25° ~ 80°C / -13° ~ 176°F					
Transient Surge Protection	6kV / 3kA ( L-L, L-G)					
Warranty	5-Year Limited					

\* Test data @ Ta: 25°C. All lumen values have ±7% tolerance







# **ILB** Series

# LED HIGH-LOW BAY RETROFIT LIGHT BULB



#### **ILB** Series

#### \_ED High-Low Bay Retrofit Light Bulb



#### **Product Information**

The ILB Series is a high efficacy LED industrial light bulb providing a cost-effective retrofit solution with a short ROI period.

It's constructed from quality grade raw materials and incorporates high power density delivering excellent light output for its compact size. The ILB Series is ideal for budgetary lighting projects by providing significant savings with virtually zero costs associated with labor and parts, while driving quality and efficiency.

#### **Advantages of ILB E40**

- E40 industrial light bulb retrofit solution
- Available in 30 / 50 / 70 Watt configurations
- Ultra-bright high efficacy up to 180 lm / W
- Cost-effective solution with a short ROI period
- Ballast free direct AC operation for low maintenance cost
- Direct replacement of up to 250W HID lamps
- Ideal for budgetary lighting projects
- 80CRI for exceptional color rendition
- L70 ≥ 40,000 hours with 5-year limited warranty
- Designed and Engineered in the USA

#### **Applications**

- Manufacturing Plants
- Warehouses
- Supermarkets
- Cold Storage Facilities
- Telecom Centers





#### **ILB** Series

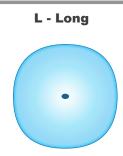
LED High-Low Bay Retrofit Light Bulb

#### **Optics Options**

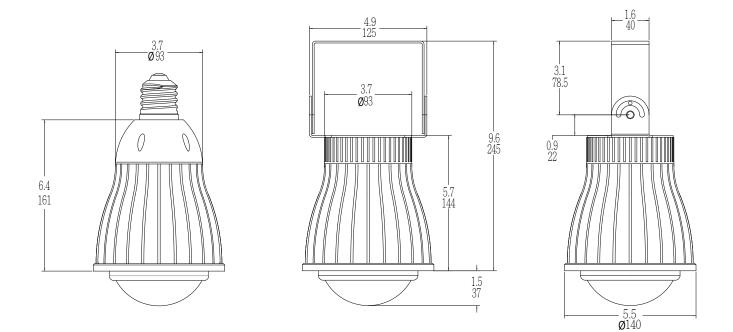
**R5 - Type V Round** / symmetric for low-mid bay, parking garages and flood applications

# M - Medium

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



#### **External Dimensions**





LED High-Low Bay Retrofit Light Bulb

#### **Ordering Information**

ILB –	Wattage	Voltage	-	Optics	-	ССТ	Driver & Control *	-	Mounting
	30 = 30Watt 50 = 50Watt 70 = 70Watt	UV = 100-277VAC HV = 200-480VAC		R5M = Type V Round Medium F5L = Type V Frosted Long		30 = 3000K 40 = 4000K 50 = 5000K	DM = Dimmable		E40 - E40 Socket SWL = Swivel Mount

\* Dimmable option only available with (SWL) swivel mount.

NOTE: White is standard color for E40 socket and housing.

#### Example

Part Number	Part Description		
ILB-70UV-R5M-50ND-SWL	LED Industrial Retrofit Light Bulb / 70 Watt / 100-277VAC / Type V Round Medium / 5000K Cool White / Non-Dimmable / Swivel Mount		

#### **Packaging Information**

Model	Case Quantity	Dimensions (LxW	/xH) Weight
ILB-E40	9	50 x 32 x 50 c 19.7 x 12.6 x 19.	- 9
ILB-SWL	9	50 x 32 x 50 c 19.7 x 12.6 x 19.	9

#### **Specification**

Fixture Watts	30 W	30 W 50 W			
Ts - Solder Point Temp*	60°C / 140°F	64°C / 147°F	70°C / 158°F		
L70 Rating @ T₄25°C	>72K hours	>63K hours	>47K hours		
Operational Temperature (Ta)	-25° ~ 45°C / -13° ~ 113°F				
Input Voltage	100-277VAC 50~60Hz ( 348 & 480VAC Optinal )				
LED Model	Nichia / Lumileds				
CRI	>80				
Lighting Control	Dimmable (0-10V, PWM)				
Storage Temperature	-25° ~ 80°C / -13° ~ 176°F				
Transient Surge Protection	6kV / 3kA (L-L, L-G)				
Warranty	5-Year Limited				

\* Test data @ Ta: 25°C. All values have ±7% tolerance







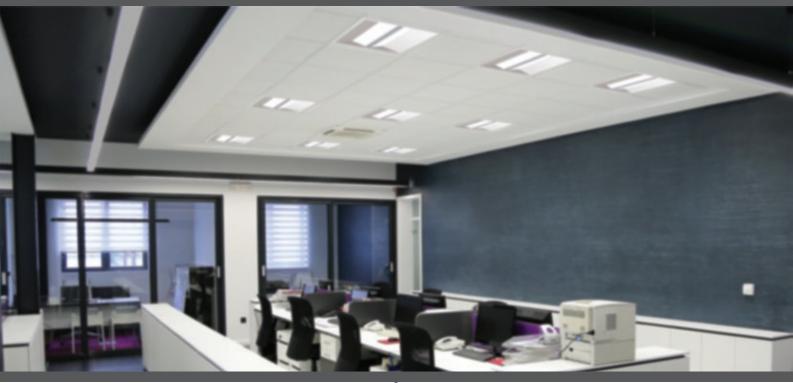
# CLM60 Series

LED CEILING LUMINAIRE MODULE



# CLM60 Series

LED Troffer / Office Lighting



#### **Product Information**

The CLM60 Series Office Luminaire has a high-tech architectural design incorporating indirect lighting with butterfly optics. This low profile patented optical design enables glare-free, uniform lighting with evenly distributed horizontal and vertical lumens.

The CLM60 is available with interactive wireless smart control and PIR motion sensor for greater flexibility and maximum Return on Investment (ROI). A simplified field serviceable modularized light engine and LED driver prolongs fixture usage far beyond its

7-year warranty period.

Patent No.US 8,864,332 B2 Other US and international patents pending

#### **Applications**

- Commercial Office
- Hospitality

- Healthcare
- Schools



#### Advantages of CLM60

- Standard 2' x 2' LED replacement office / troffer luminaire
- Available in 20 & 30 Watt configurations
- Ultra-bright high efficacy up to 160 lm/W
- Indirect butterfly optical design enables glare-free soft comforting light without the uncomfortable "eye piercing" effect
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Optional wireless smart control and motion sensor with soft dimming function
- Light weight (2.5kg / 5.5lbs) eliminates the need for costly ceiling reinforcement
- Field serviceable light engine and driver, ideal for retrofit and new construction
- L70 ≥ 100,000 hour rated life with 7-year limited warranty
- Designed and engineered in the USA

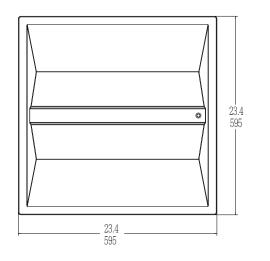
# CLM60 Series

LED Troffer / Office Lighting





#### **External Dimensions**





#### **Packaging Information**

Case Quantity	Dimensions (LxWxH)	Weight
8	62 x 62 x 48.5cm 24.4 x 24.4 x 19.1 in	23.6 kg 52 lbs

2.1 53



LED Troffer / Office Lighting

#### **Ordering Information**

CLM60

)	Wattage	–	ССТ	Driver & Control
	20 = 20Watt 30 = 30Watt		30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable MS = Motion Sensor SC = Smart Control

NOTE: White is the standard housing color.

#### Example

Part Number	Part Description
CLM6020-40ND	Ceiling Luminaire Module 2' x 2' (600 x 600mm) / 100-277VAC / 20Watt / 4000K Neutral White / Non-Dimmable

#### **Specification**

Fixture Watts *	20Watt	30 Watt		
Ts - Solder Point Temp *	52°C / 126°F	55°C / 131°F		
L70 Rating @ T₄25°C	> 100K hours	> 85K hours		
Operational Temperature (Ta)	-25° ~ 50°C / -13° ~ 122°F			
Light Beam Angle	120°			
Input Voltage	100-277VAC 50~60Hz			
LED Model	Nichia / Lumileds			
CRI	>80			
Lighting Control	Dimmable (0-10V) / Motion Sensor / Smart Control			
Storage Temperature	-25° ~ 80°C / -13° ~ 176°F			
Transient Surge Protection	6kV / 3kA ( L-L, L-G )			
Warranty	7-Year	7-Year Limited		

\* Test data @ Ta: 25°C. All values have ±7% tolerance





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