

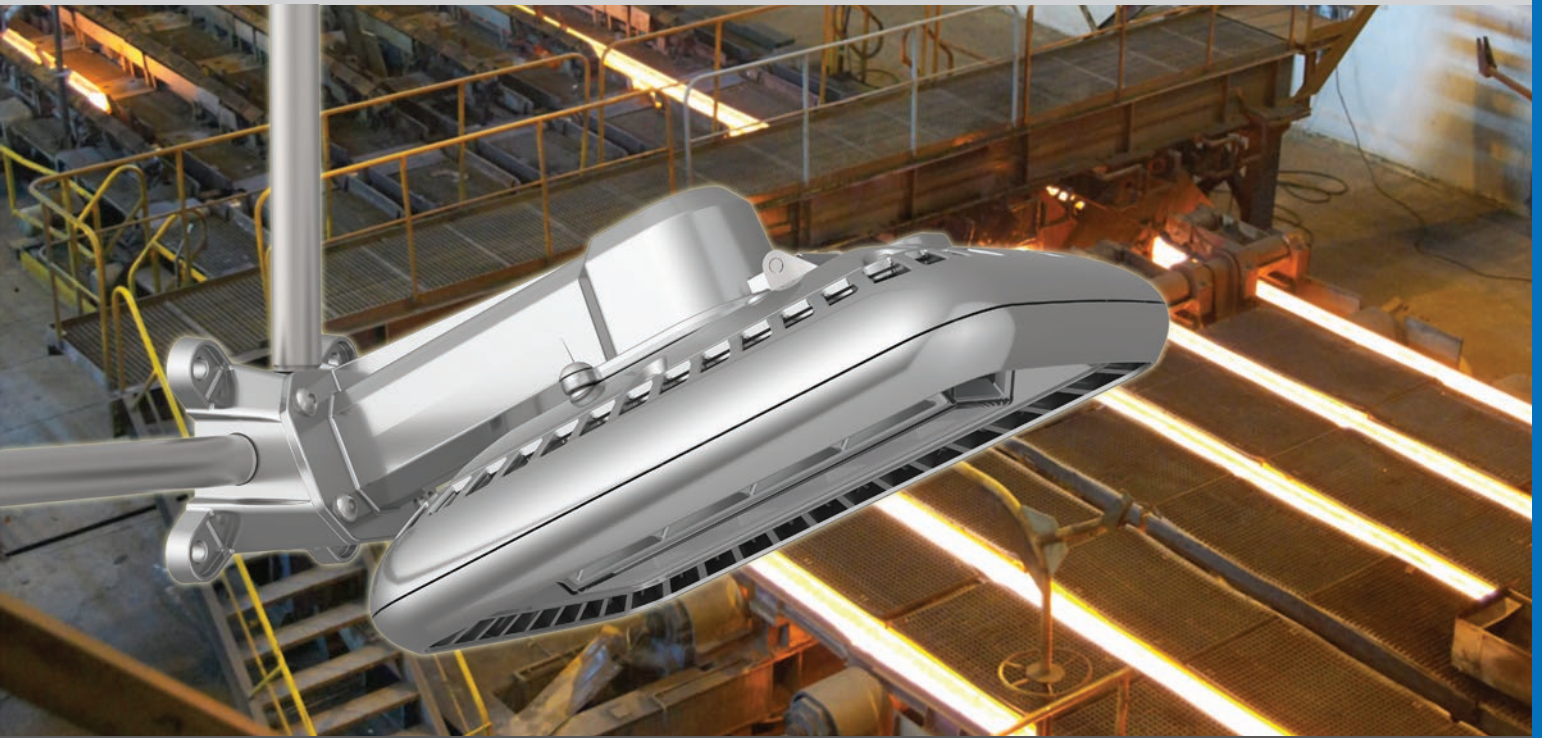
ILX3525 Series

HIGH TEMPERATURE LED LUMINARE



ILX3525 Series

LED High Temperature Lighting



Product Information

The ILX3525 Series heavy industrial luminaire is designed for extreme applications in high temperature zones. Technologically advanced thermal management and its high efficiency LED driver enables long lifespan with virtually zero maintenance in high ambient temperature environments found in steel mills, paper and pulp mills and power plants. Its advanced thermal technology enables low LED junction temperatures (T_j) for maintenance free long lifespan.

The ILX3525 incorporates a high tech industrial grade LED driver delivering an outstanding 95% efficiency and is designed to last over 60,000 hours in harsh environments with high operating ambient temperatures.

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

Applications

- Oil & Gas
- Mining
- Power Generation
- Foundries
- Paper and Pulp Mills
- Steel & Aluminum Mills

ILX3525 Series

LED High Temperature Lighting



Years Warranty



Smart Control



Wet Location



Pressure Washable



Impact Resistance



Hazardous Area



High Temperature



Advantages of ILX3525

- Ultra-reliable, high temperature rated LED industrial light
- Available in 35 ~ 100 Watt configurations with various optics
- Ultra-bright industry leading high efficacy up to 150 lm / W
- Proprietary wide-angle optics enabling glare-free, uniform lighting for horizontal and vertical surfaces
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long lifespan
- Ultra-wide angle butterfly optics reducing required fixtures by up to 25%
- Hazardous area 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 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 enabling greater savings and flexibility
- Available with versatile mounting options for various high temperature environments
- 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

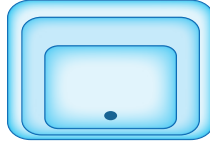
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LED High Temperature Lighting

Optic Options

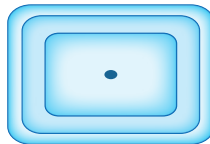
02 - Type II / wall mount & perimeter lighting applications

M - Medium



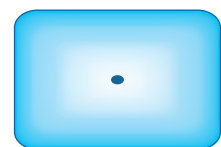
S5 - Type V Rectangular / symmetric for canopies, tunnels, parking garages and wide flood applications

M - Medium



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

L - Long



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LED High Temperature Lighting

Mounting Options

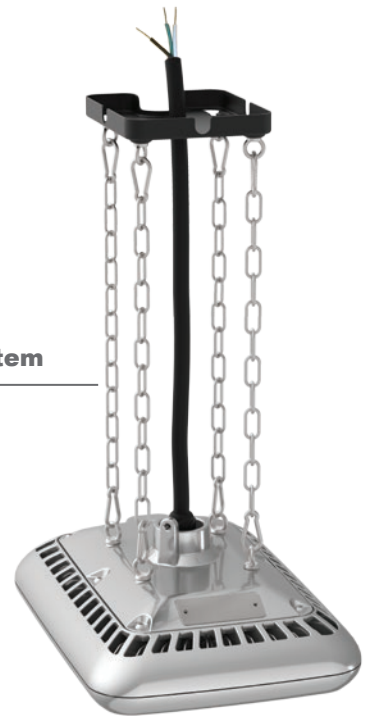
SSL - Snap & Slide Surface
Mounting System



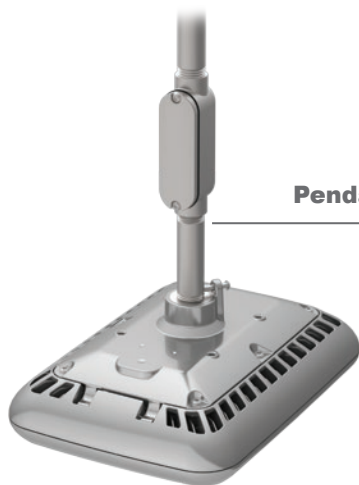
Swivel Mounting System - SWL



CH4 - Chain Mounting System



Pendant Mounting System - PDS

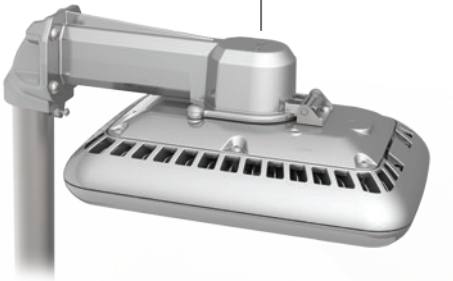


ILX3525 Series

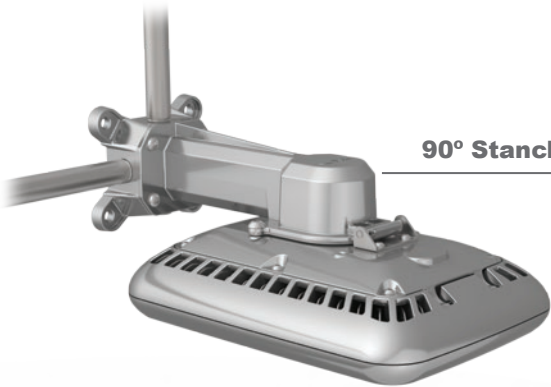
LED High Temperature Lighting

Mounting Options

90° Stanchion Mounting System - S90

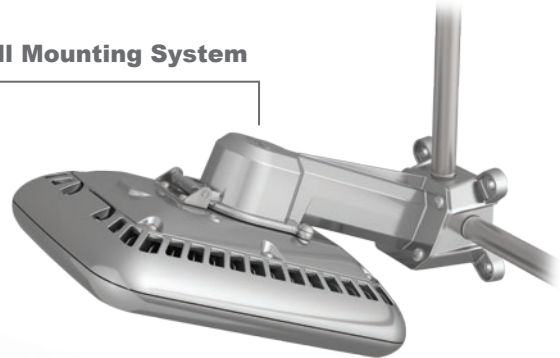


S25 - 25° Stanchion Mounting System



90° Stanchion Wall Mounting System - WS9

WS2 - 25° Stanchion Wall Mounting System

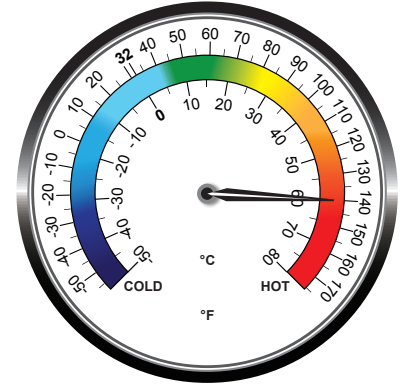


ILX3525 Series

LED High Temperature 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 Temperature Code Ambient Temperature Range		T5 Temperature Code Ambient Temperature Range		T4a Temperature Code Ambient Temperature Range	
	°F	°C	°F	°C	°F	°C
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

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LED High Temperature Lighting

Ordering Information

ILX3525 -	Wattage	Voltage	Optics	Pitch	CCT	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	30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control	PDS = Pendant Mount SSL = Snap & Slide Mount SWL = Swivel Mount CH4 = 4 Chain Mount S90 = 90° Stanchion Mount S25 = 25° Stanchion Mount WS9 = 90° Stanchion Wall Mount WS2 = 25° Stanchion Wall Mount

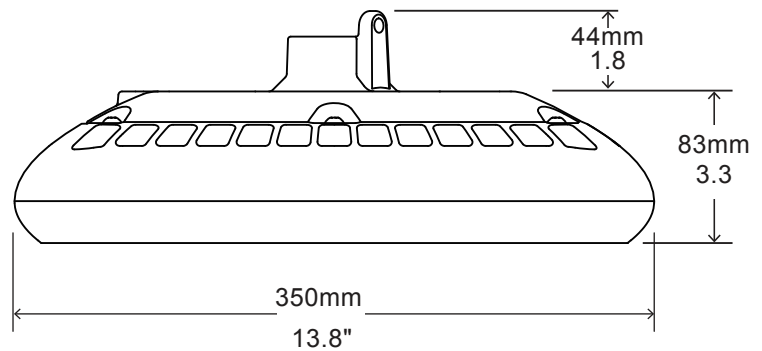
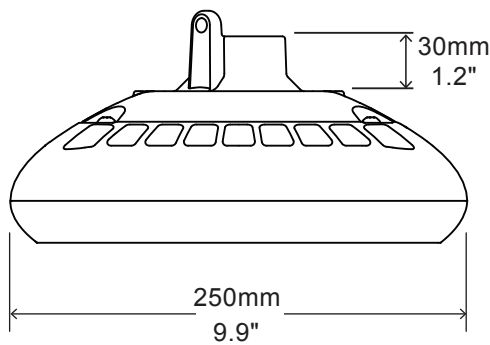
NOTE: Gray is the standard exterior color.

* Smart control available with ZHAGA standard receptacle module.

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

Example

Part Number	Part Description
ILX3525-100UV-S5M-50ND-SSL	LED High Temperature Light / 100 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



ILX3525 Series

LED High Temperature Lighting

Specification - Type II Medium

Fixture Watts	35 W	55 W	75 W	100 W
Lumens (Total) *	5,215 lm	7,865 lm	10,500 lm	13,000 lm
Efficacy *	149 lm / W	143 lm / W	140 lm / W	130 lm / W
Number of LEDs & Driving Current	48@240mA	48@370mA	48@505mA	48@670mA
T _s - Solder Point Temp *	52°C / 126°F	56°C / 133°F	60°C / 140°F	63°C / 145°F
L70 Rating @ T _a 25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours
Operational Temperature (T _a)	-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, PWM) / Smart Control			
Warranty	10-Year Limited			
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture			
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA			

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

Specification - Type V Rectangular

Fixture Watts	35 W	55 W	75 W	100 W
Lumens (Total) *	5,320 lm	8,030 lm	10,725 lm	13,300 lm
Efficacy *	152 lm / W	146 lm / W	143 lm / W	133 lm / W
Number of LEDs & Driving Current	48@240mA	48@370mA	48@505mA	48@670mA
T _s - Solder Point Temp *	50°C / 122°F	54°C / 131°F	58°C / 136°F	62°C / 144°F
L70 Rating @ T _a 25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours
Operational Temperature (T _a)	-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, PWM) / Smart Control			
Warranty	10-Year Limited			
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture			
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA			

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

ILX3525 Series

LED High Temperature Lighting

Specification - Type V Frosted

Fixture Watts	35 W	55 W	75 W	100 W
Lumens (Total) *	4,830 lm	7,315 lm	9,750 lm	12,000 lm
Efficacy *	138 lm / W	133 lm / W	130 lm / W	120 lm / W
Number of LEDs & Driving Current	48@240mA	48@370mA	48@505mA	48@670mA
T _s - Solder Point Temp *	51°C / 124°F	55°C / 131°F	59°C / 138°F	64°C / 147°F
L70 Rating @ T _a 25°C	> 175K hours	> 160K hours	> 150K hours	> 135K hours
Operational Temperature (T _a)	-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, PWM) / Smart Control			
Warranty	10-Year Limited			
Storage Temperature / Humidity	-50° ~ 80°C / -58° ~ 176°F / IP69K Rated Fixture			
Transient Surge Protection	10kV / 5kA (L-L, L-G) Optional 20kV / 10kA			

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