

ILX280 Series

LED High Temperature Lighting



Advantages of ILX280

- Compact low profile design, extreme application LED industrial light
- Available in 35 / 55 / 75 Watt configurations
- Ultra-bright industry leading high efficacy up to 165 lm / W
- Proprietary optics enabling glare-free uniform lighting,
- Advanced thermal technology enables low LED junction temperatures (Tj) for maintenance free long life
- Hazardous area and high operational temperature rated luminaire -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 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 ≥ 145,000 hours with an exceptional 10-year limited warranty
- Designed and engineered in the USA

Applications

- Power Generation
- Foundries
- Chemical Plants
- Steel & Aluminum Mills
- Oil & Gas
- Mining
- Paper and Pulp Mills
- Food Processing Plants

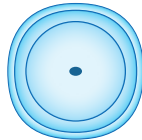
ILX280 Series

LED High Temperature Lighting

Optics Options

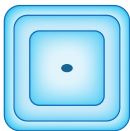
R5 - Type V Round / symmetric for mid-low bay, parking garages and flood applications

M - Medium



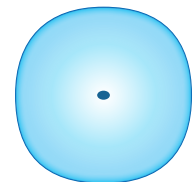
S5 - Type V Square / symmetric for mid-low bay, aisle and flood applications

S - Short



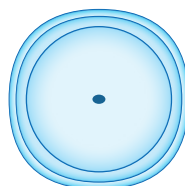
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications

L - Long



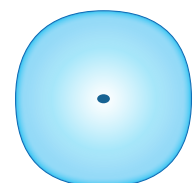
WC - Well Glass - Clear / spherical symmetric for area lighting, parking garages and wide flood applications

M - Medium



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

L - Long



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Mounting Options



Pendant Mounting System

Part Number	Part Description
PDS-IL28	Pendant Mounting Interface / 3/4" Pipe Not Included



Snap & Turn Surface Mounting System

Part Number	Part Description
SST-IL28-B	Snap & Turn Surface Mount Bracket / Steel Black



Chain Chandelier Mounting System

Part Number	Part Description
CH4-IL28-45C	4 Link Chain Chandelier System / 18" (45cm) / Chrome Steel
CH4-IL28-90C	4 Link Chain Chandelier System / 36" (90cm) / Chrome Steel



Swivel Mounting System

Part Number	Part Description
SWL-IL45-SS	Variable Angle Swivel Mounting Bracket / Stainless Steel

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Mounting Options



90° Stanchion Mounting System

Part Number	Part Description
S90-ILX280	90° Stanchion Mounting System / Die-Cast Aluminum



25° Stanchion Mounting System

Part Number	Part Description
S25-ILX28-B	25° Stanchion Mounting System / Die-Cast Aluminum



90° Stanchion Wall Mounting System

Part Number	Part Description
WS9-ILX280	90° Stanchion Wall Mounting System / Die-Cast Aluminum



25° Stanchion Wall Mounting System

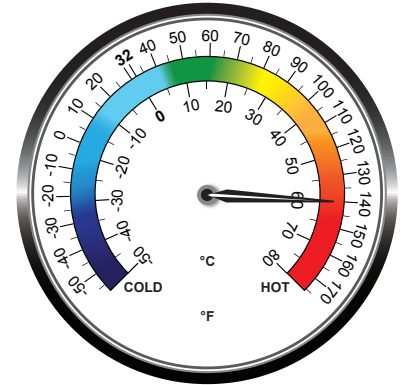
Part Number	Part Description
WS2-ILX280	25° Stanchion Wall Mounting System / Die-Cast Aluminum

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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 Temperature Code Ambient Temperature Range		T5 Temperature Code Ambient Temperature 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



Years Warranty



Smart Control



Wet Location



Pressure Washable



Impact Resistance



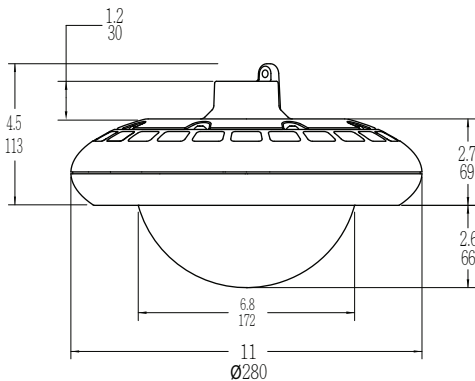
Hazardous Area



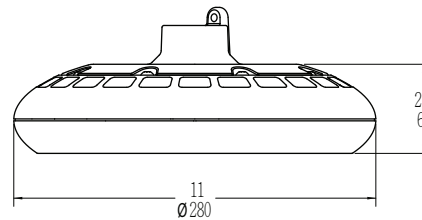
High Temperature



External Dimensions



ILX280 Well Glass



ILX280

ILX280 Series

LED High Temperature Lighting - 75Watt

Ordering Information

ILX28	Wattage	Voltage	Optics	Pitch	CCT	Driver & Control *	Mounting **
	035 = 35Watt 055 = 55Watt 075 = 75Watt	UV = 100-277VAC HV = 200-480VAC DV = 127-390VDC	R5 = Type V Round S5 = Type V Square F5 = Type V Frosted WC = Well Glass Clear WF = Well Glass Frosted	S = Short M = Medium L = Long	30 = 3000K 40 = 4000K 50 = 5000K	ND = Non-Dimmable DM = Dimmable SC = Smart Control	PDS = Pendant Mount SST = Snap & Turn Mount CH4 = 4 Chain Mount SWL = Swivel Mount 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
ILX28075UV-R5M-50DM-PDS	LED High Temperature Light / 75 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



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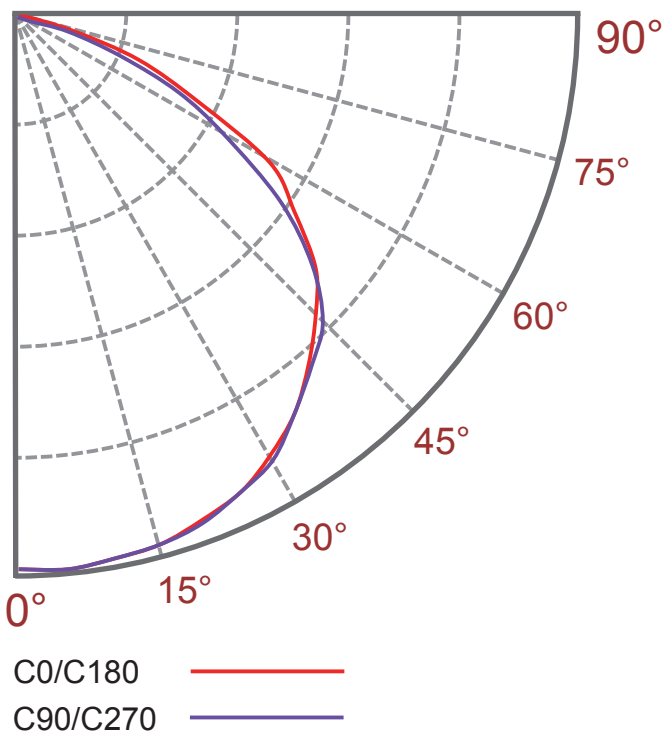
LED High Temperature Lighting - 75Watt

Specification - Type V Round Medium / Well Glass Clear Medium

Fixture Watts	75 W
Lumens (Total) *	13,050 lm
Efficacy *	174 lm / W
Number of LEDs & Driving Current	64@385mA
Ts - Solder Point Temp*	62°C / 144°F
L70 Rating @ T _a 25°C	>145K Hours
Operational Temperature (T _a)	-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
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) Optional 10kV / 5kA

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

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	3576	27.4%
0-40	6016	46.1%
0-60	11171	85.6%
0-90	13050	100.0%
0-180	13050	100.0%

ILX280 Series

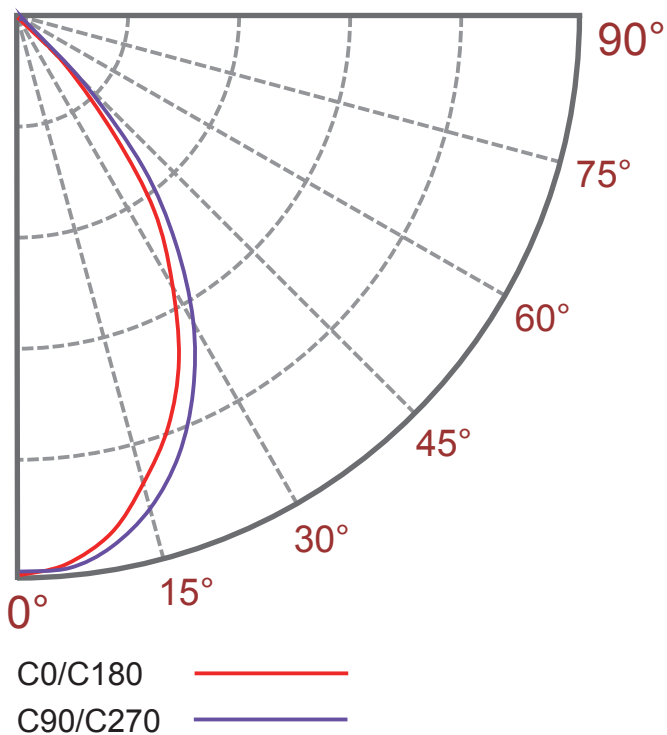
LED High Temperature Lighting - 75Watt

Specification - Type V Square Short

Fixture Watts	75 W
Lumens (Total) *	12,450 lm
Efficacy *	166 lm / W
Number of LEDs & Driving Current	64@385mA
Ts - Solder Point Temp*	62°C / 144°F
L70 Rating @ Ta 25°C	>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
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) Optional 10kV / 5kA

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

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	7445	59.8%
0-40	10645	85.5%
0-60	12438	99.9%
0-90	12450	100.0%
0-180	12450	100.0%

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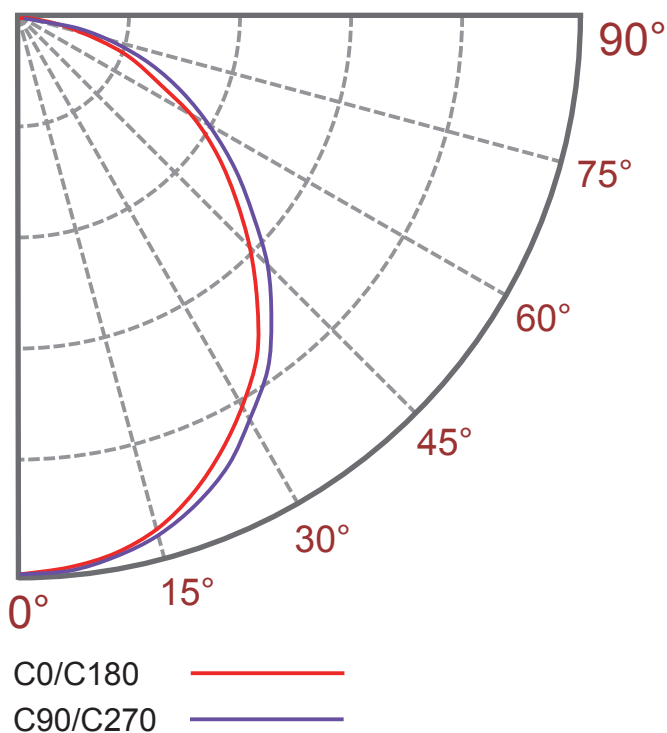
LED High Temperature Lighting - 75Watt

Specification - Type V Frosted Long / Well Glass Frosted Long

Fixture Watts	75 W
Lumens (Total) *	11,475 lm
Efficacy *	153 lm / W
Number of LEDs & Driving Current	64@385mA
Ts - Solder Point Temp*	64°C / 147°F
L70 Rating @ T _a 25°C	>145K Hours
Operational Temperature (T _a)	-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
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) Optional 10kV / 5kA

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

Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	3374	29.4%
0-40	5439	47.4%
0-60	9272	80.8%
0-90	11441	99.7%
0-180	11475	100.0%