ILX280 Series

LED Hazardous Area Lighting

Advantages of ILX280

- Ultra-compact LED hazardous area location industrial / well glass light
- Available in 35 / 55 / 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
- Versatile mounting options for various hazardous area 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

Applications

- Offshore Oil Platforms
- Refineries
- Gas-to-Liquid (GTL) Plants
- Terminals & Tank Farms
- Sub-Surface Mineshafts
- Conveyor Belts
- Ball / Tube Mill Facilities
- Tunnel Boring

LED® Light Emitting Designs

www.lightemittingdesigns.com
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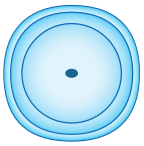
Optics Options

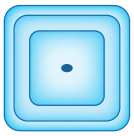
R5 - Type V Round / symmetric for mid-low bay, parking garages and flood applications

M - Medium



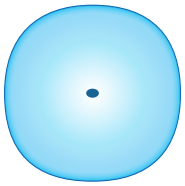
S5 - Type V Square / symmetric for mid-low bay, aisle and flood applications

S - Short



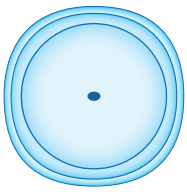
F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare applications

L - Long



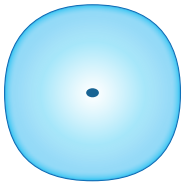
WC - Well Glass - Clear / spherical symmetric for area lighting, parking garages and wide flood applications

M - Medium



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

L - Long



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

Mounting Options

25° Stanchion Wall Mounting System

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

Swivel Mounting System

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

Pendant Mounting System

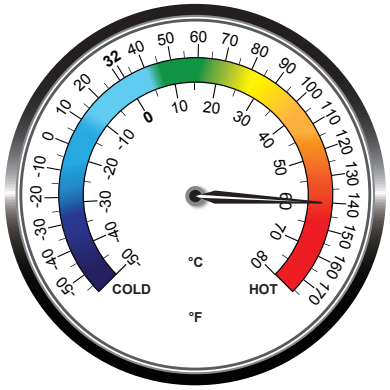
Part Number	Part Description
PDS-IL28	Pendant Mounting Interface / 3/4” Pipe Not Included

ILX280 Series

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 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

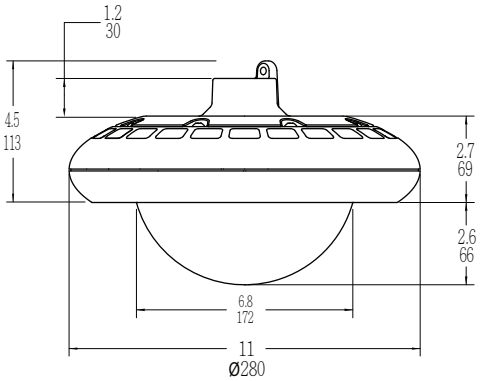
Pressure Washable

Impact Resistance

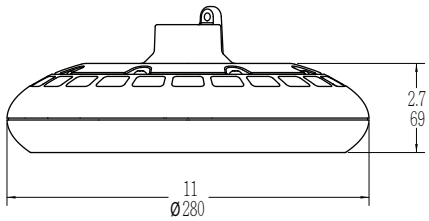
High Temperature

Hazardous Area

External Dimensions



ILX280 Well Glass



ILX280

ILX280 Series

LED Hazardous Area Lighting - 35Watt

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 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 Mount WS2 = 25° Stanchion Wall Mount

NOTE: Gray is the standard exterior color.
* Smart control & daylight sensor available with ZHAGA standard receptacle module.
** PDS is the standard mounting system, with 1" NPT threaded hole.

Example

Part Number	Part Description
ILX28035UV-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

ILX280 Series

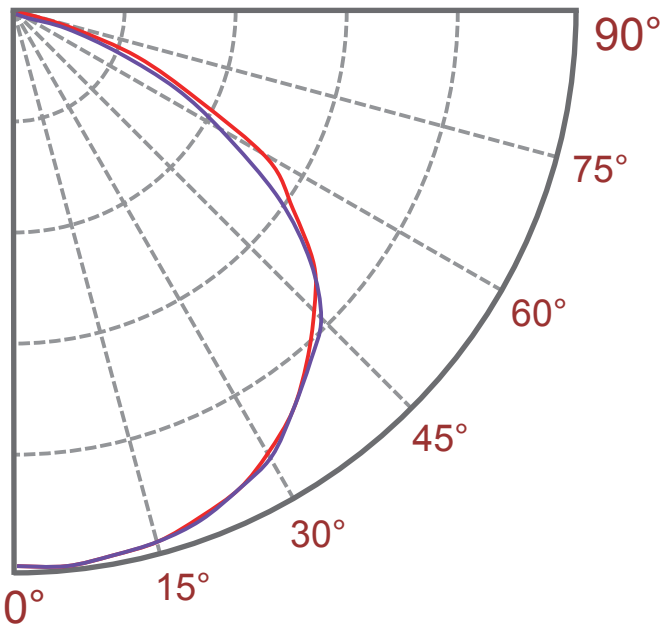
LED Hazardous Area Lighting - 35Watt

Specification - Type V Round Medium / Well Glass Clear Medium

Fixture Watts	35 W
Lumens (Total) *	6,545 lm
Efficacy *	187 lm / W
Number of LEDs & Driving Current	64@255mA
Ts - Solder Point Temp*	53°C / 127°F
L70 Rating @ T_a 25°C	>175K 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 / 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) 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	1793	27.4%
0-40	3017	46.1%
0-60	5603	85.6%
0-90	6545	100.0%
0-180	6545	100.0%

ILX280 Series

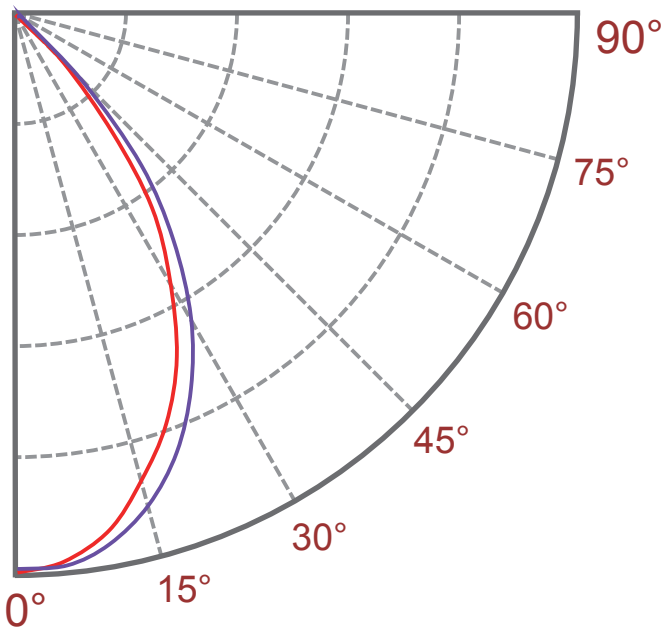
LED Hazardous Area Lighting - 35Watt

Specification - Type V Square Short

Fixture Watts	35 W
Lumens (Total) *	6,335 lm
Efficacy *	181 lm / W
Number of LEDs & Driving Current	64@280mA
Ts - Solder Point Temp*	53°C / 127°F
L70 Rating @ T_a 25°C	>175K 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 / 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) 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	3788	59.8%
0-40	5420	85.5%
0-60	6329	99.9%
0-90	6335	100.0%
0-180	6335	100.0%

ILX280 Series

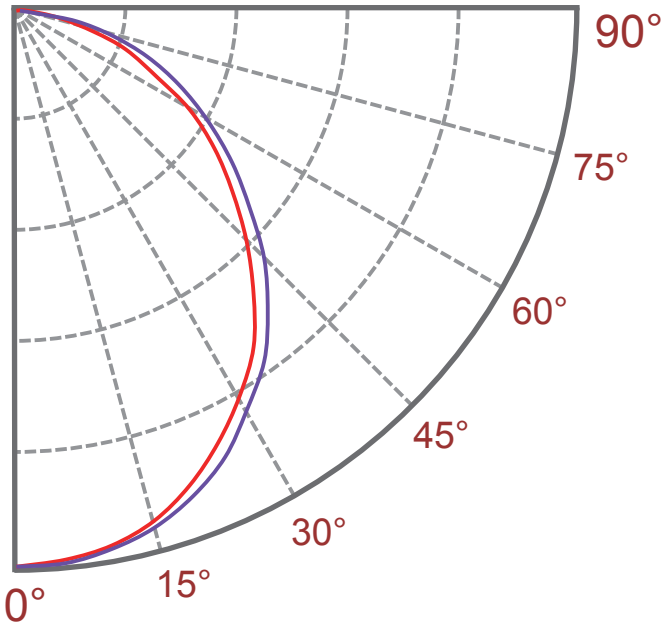
LED Hazardous Area Lighting - 35Watt

Specification - Type V Frosted Long / Well Glass Frosted Long

Fixture Watts	35 W
Lumens (Total) *	5,845 lm
Efficacy *	167 lm / W
Number of LEDs & Driving Current	64@385mA
Ts - Solder Point Temp*	54°C / 129°F
L70 Rating @ T_a 25°C	>175K 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 / 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) 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	1718	29.4%
0-40	2771	47.4%
0-60	4723	80.8%
0-90	5827	99.7%
0-180	5845	100.0%

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