

MODULAR MAX SERIES

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS
FLOOD & HIGHBAY



Reliable. Durable. Efficient.
15,000 to 70,000 lumen models

RED SKY
SERIOUSLY SAFE LIGHTS™

ABOUT RED SKY LIGHTING

PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards



WHY CHOOSE RED SKY

❧ SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

❧ TOP-NOTCH SERVICES

- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

❧ FAST DELIVERY

- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

❧ SUSTAINABLE SOLUTIONS

- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



MODULAR MAX SERIES



The Modular Max Series packs powerful performance with a high lumen output of up to 70,000 lumens and excellent luminous efficacy of up to 180lm/W. This is achieved while maintaining a lightweight and compact design, making it over 25% lighter than comparable C1D2/C2D1 floodlights.

Certified for C1D2/C2D1 hazardous locations, the Modular Max Series withstands even the harshest environments. Its craftsmanship and rigorous testing ensure optimal performance under extreme conditions, maintaining high output from -49°F to +149°F (-45°C to +65°C). An outstanding thermal design and robust quality provide durable operation.

Versatile, intelligent design allows equal use as a floodlight or high bay solution. Unique product structure design simplifies installation and manufacturing. The light housing utilizes recyclable metal alloys, supporting sustainability. Additional accessories reduce light pollution, Red Sky Lighting is committed to responsible, efficient, and eco-friendly solutions. The Modular Max Series delivers unprecedented performance for demanding industrial applications.



FEATURES



- ❧ **Compact and Light-Weight Design**
- ❧ **Offering 15,000-70,000 Lm Wide Range Selection**
- ❧ **Safe and Reliable Heat Transfer, Can Be Performed in High/Low Ambient Temperatures**
 -49°F to +149°F for 15,000 - 40,000 Lm
 -49°F to +131°F for 50,000 - 70,000 Lm
- ❧ **Easy Installation**
 Easy Wiring, More Room for Wiring
- ❧ **10-Years Warranty**

RATINGS

Class I Division 2, Groups A, B, C, D	UL 1598 Wet Locations
Class II Division 1 Group E, F, G	UL 1598A Marine Outside Type (Salt Water)
Class II Division 2, Groups F, G	IP66/67, NEMA 4X
Class III	IK08 (glass lens cover)
Simultaneous Presence	3G Vibration (ANSI C136.31)
Class I, Zone 2, Group IIC	
Zone 20, 21 & 22	

CERTIFICATIONS

UL844
 UL1598
 UL1598A
 CSA C22.2 NO. 250.0
 CSA C22.2 No. 137
 DLC (Pending)
 Dark sky compliance (Pending)

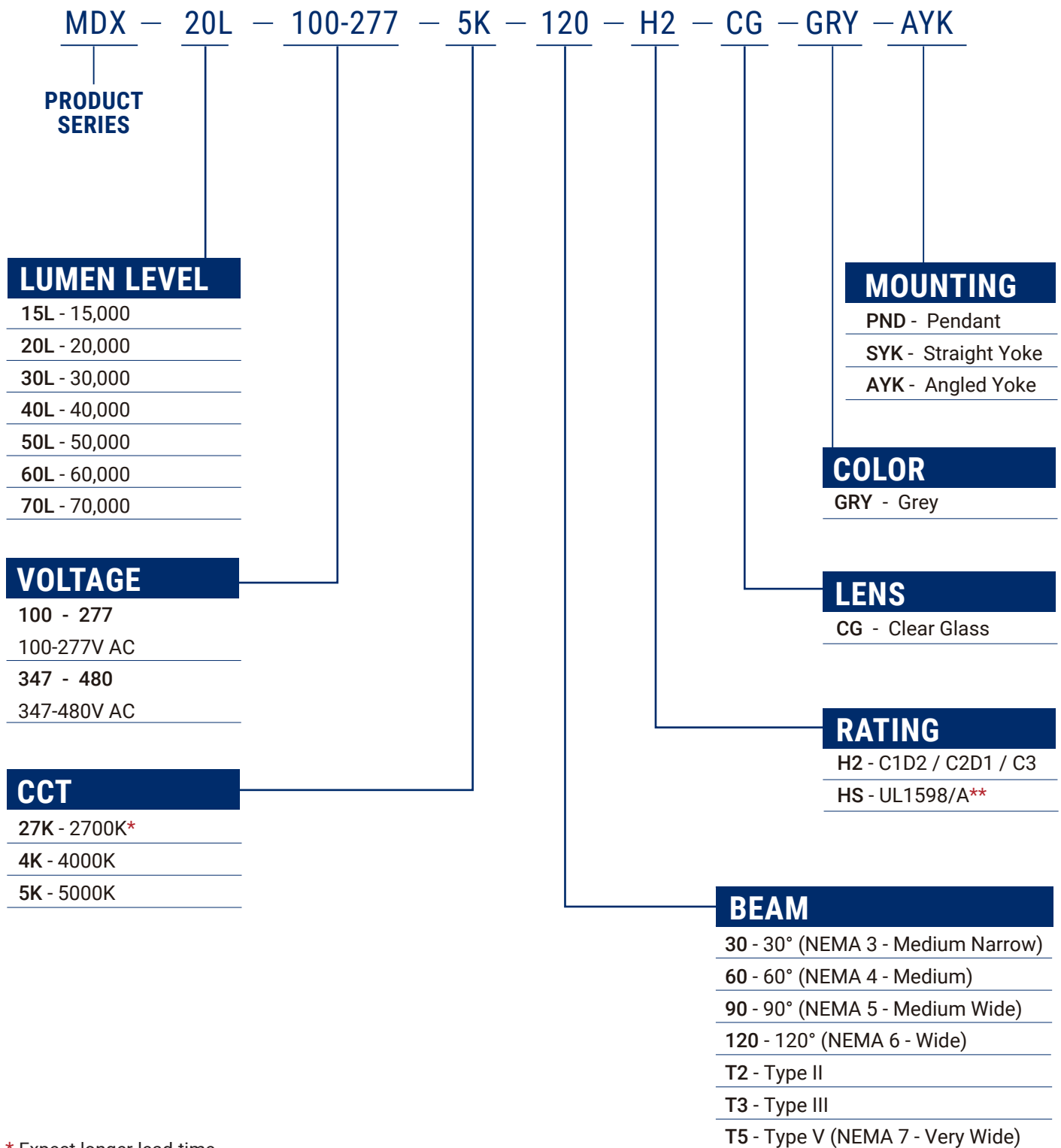
TECHNICAL PARAMETERS

Specification	MDX-15L	MDX-20L	MDX-30L	MDX-40L	MDX-50L	MDX-60L	MDX-70L
Electrical Parameters							
Power	90W	120W	190W	260W	310W	380W	440W
Voltage/Frequency	100-277V AC, 347-480V AC 50/60Hz						
Power Factor	>90%						
THD	<20%						
L70	230,000 Hours@149°F						
Dimming	0-10V						
Surge Protection	10KA						
Warranty	10 years						
Optical Parameters							
Lumen Output*	15,965Lm	20,460Lm	31,305Lm	39,864Lm	49,486Lm	60,933Lm	69,987Lm
Lumen Efficacy*	180Lm/W						
Available Beam Angle	30° / 60° / 90° / 120° / T2 / T3 / T5						
Correlated Color Temperature (CCT)	2700K / 4000K / 5000K						
Color Rendering Index (CRI)	Ra>70						
Mechanical Parameters							
Finish	Thermoset Powdercoat						
Hardware	Stainless steel 316						
Lens Material	Clear Glass						
Mounting Options	Pendant, Straight Yoke, Angled Yoke, Chain, Stanchion						
Product Weight	21.8lbs/9.9kg				36.3lbs/16.5kg		
Cable Entry	(5) 3/4" NPT						
Product Dimensions(L×W×H)	14.1×9.8×7.4in (357×250×189 mm)				19.9×14.1×7.4in (505×357×189 mm)		
Environmental Parameters							
Ambient Operating Temperature	-49°F ~ +149°F (-45°C ~ 65°C)			-49°F ~ +131°F (-45°C ~ 55°C)			
T-Code Rating	CID2 – T3C, C2D1 – T4						
EPA wind rating (FT2)	1.753 (Yoke), 1.888 (Stanchion)				2.864 (Yoke), 2.999 (Stanchion)		

* Value calculated based on 5000K and Clear Glass, varies to different spec.

ORDERING INFORMATION

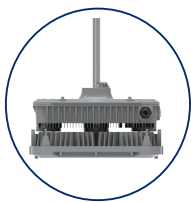
EXAMPLE: MDX-20L-100-277-5K-120-H2-CG-GRY-AYK



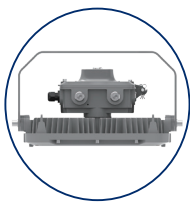
* Expect longer lead-time.

** Harsh ver. only: Pre-installed 5 Pin NEMA Socket Receptacle allows for easy attachment of photocell (purchase separately) or other smart lighting device. Dimming capable at 120-480Vac. Ships with shorting cap.

MOUNTING ACCESSORIES



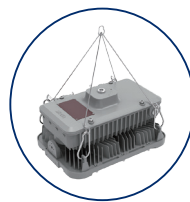
Pendant



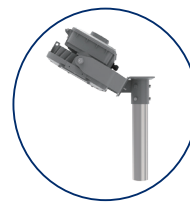
Straight Yoke



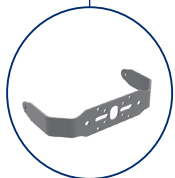
Angled Yoke



Chain



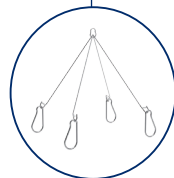
Stanchion



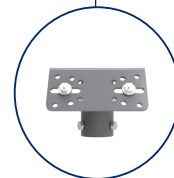
MDX-S YOKE S
MDX-S YOKE D



MDX-A YOKE S
MDX-A YOKE D



CHAIN02



STAN01

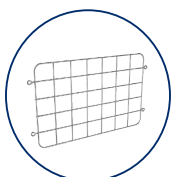
Mounting Method	PN	Description	MPN Code
Straight Yoke	MDX-S YOKE S	Straight YOKE Mount, Stainless Steel, for Single Module	310010114
	MDX-S YOKE D	Straight YOKE Mount, Stainless Steel, for Double Module	310010116
Angled Yoke	MDX-A YOKE S	Angled YOKE Mount, Stainless Steel, for Single Module	310010115
	MDX-A YOKE D	Angled YOKE Mount, Stainless Steel, for Double Module	310010117
Chain	CHAIN02	CHAIN HANG KIT, Stainless Steel	309050358
Stanchion	STAN01*	Slip-Fit Stanchion Mount Kit, M25, SS304, Power Coated Grey RAL7037	309050300

* Requires A Straight Yoke

OTHER ACCESSORIES



HOOK02



MDX-WG



SFCB05



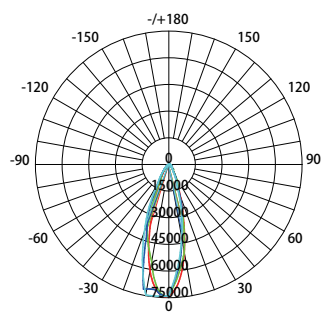
MDX-VISO

PN	Description	MPN Code
HOOK02	M10 Hook with 3/4" NPT (SUS316)	309050331
MDX-WG	Wire Guard for glass lens, for Single Module	309050360
MDX-WG	Wire Guard for glass lens, for Double Module	309050361
SFCB01	3ft Safety Cable Kit, BLK & RDX SERIES, SS304	106060018
MDX-VISO	VISOR MOD SERIES	309050359
GLCO-03	Cord 3ft with gland for C1D2 only	204020003
GLCO-10	Cord 10ft with gland for C1D2 only	204020004

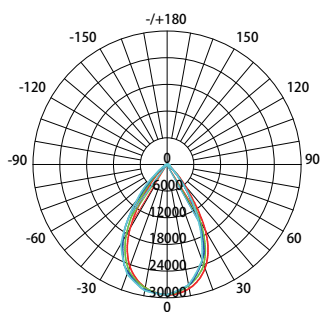
LUMEN TABLE

Part Number	Power (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277V AC						
MDX-15L-100-277-5K-30-H2-CG-GRY-PND	90	5000K	30	Clear Glass	16,079	176
MDX-15L-100-277-5K-60-H2-CG-GRY-PND	90	5000K	60	Clear Glass	16,124	177
MDX-15L-100-277-5K-90-H2-CG-GRY-PND	90	5000K	90	Clear Glass	16,467	180
MDX-15L-100-277-5K-120-H2-CG-GRY-PND	90	5000K	120	Clear Glass	15,965	175
MDX-15L-100-277-5K-T2-H2-CG-GRY-PND	90	5000K	T2	Clear Glass	15,000	165
MDX-15L-100-277-5K-T3-H2-CG-GRY-PND	90	5000K	T3	Clear Glass	15,707	172
MDX-15L-100-277-5K-T5-H2-CG-GRY-PND	90	5000K	T5	Clear Glass	14,384	157
MDX-20L-100-277-5K-30-H2-CG-GRY-PND	120	5000K	30	Clear Glass	20,632	174
MDX-20L-100-277-5K-60-H2-CG-GRY-PND	120	5000K	60	Clear Glass	20,585	174
MDX-20L-100-277-5K-90-H2-CG-GRY-PND	120	5000K	90	Clear Glass	21,037	177
MDX-20L-100-277-5K-120-H2-CG-GRY-PND	120	5000K	120	Clear Glass	20,460	173
MDX-20L-100-277-5K-T2-H2-CG-GRY-PND	120	5000K	T2	Clear Glass	19,149	161
MDX-20L-100-277-5K-T3-H2-CG-GRY-PND	120	5000K	T3	Clear Glass	20,021	169
MDX-20L-100-277-5K-T5-H2-CG-GRY-PND	120	5000K	T5	Clear Glass	18,244	154
MDX-30L-100-277-5K-30-H2-CG-GRY-PND	190	5000K	30	Clear Glass	31,463	166
MDX-30L-100-277-5K-60-H2-CG-GRY-PND	190	5000K	60	Clear Glass	31,586	166
MDX-30L-100-277-5K-90-H2-CG-GRY-PND	190	5000K	90	Clear Glass	32,082	169
MDX-30L-100-277-5K-120-H2-CG-GRY-PND	190	5000K	120	Clear Glass	31,305	165
MDX-30L-100-277-5K-T2-H2-CG-GRY-PND	190	5000K	T2	Clear Glass	29,275	154
MDX-30L-100-277-5K-T3-H2-CG-GRY-PND	190	5000K	T3	Clear Glass	30,617	161
MDX-30L-100-277-5K-T5-H2-CG-GRY-PND	190	5000K	T5	Clear Glass	27,970	147
MDX-40L-100-277-5K-30-H2-CG-GRY-PND	260	5000K	30	Clear Glass	39,904	159
MDX-40L-100-277-5K-60-H2-CG-GRY-PND	260	5000K	60	Clear Glass	40,085	160
MDX-40L-100-277-5K-90-H2-CG-GRY-PND	260	5000K	90	Clear Glass	40,632	162
MDX-40L-100-277-5K-120-H2-CG-GRY-PND	260	5000K	120	Clear Glass	39,864	159
MDX-40L-100-277-5K-T2-H2-CG-GRY-PND	260	5000K	T2	Clear Glass	38,008	147
MDX-40L-100-277-5K-T3-H2-CG-GRY-PND	260	5000K	T3	Clear Glass	39,521	153
MDX-40L-100-277-5K-T5-H2-CG-GRY-PND	260	5000K	T5	Clear Glass	36,295	141
MDX-50L-100-277-5K-30-H2-CG-GRY-PND	310	5000K	30	Clear Glass	50,142	176
MDX-50L-100-277-5K-60-H2-CG-GRY-PND	310	5000K	60	Clear Glass	49,712	174
MDX-50L-100-277-5K-90-H2-CG-GRY-PND	310	5000K	90	Clear Glass	50,554	177
MDX-50L-100-277-5K-120-H2-CG-GRY-PND	310	5000K	120	Clear Glass	49,486	173
MDX-50L-100-277-5K-T2-H2-CG-GRY-PND	310	5000K	T2	Clear Glass	46,072	162
MDX-50L-100-277-5K-T3-H2-CG-GRY-PND	310	5000K	T3	Clear Glass	48,348	170
MDX-50L-100-277-5K-T5-H2-CG-GRY-PND	310	5000K	T5	Clear Glass	44,020	154
MDX-60L-100-277-5K-30-H2-CG-GRY-PND	380	5000K	30	Clear Glass	62,368	176
MDX-60L-100-277-5K-60-H2-CG-GRY-PND	380	5000K	60	Clear Glass	61,877	176
MDX-60L-100-277-5K-90-H2-CG-GRY-PND	380	5000K	90	Clear Glass	62,902	179
MDX-60L-100-277-5K-120-H2-CG-GRY-PND	380	5000K	120	Clear Glass	60,933	172
MDX-60L-100-277-5K-T2-H2-CG-GRY-PND	380	5000K	T2	Clear Glass	56,637	161
MDX-60L-100-277-5K-T3-H2-CG-GRY-PND	380	5000K	T3	Clear Glass	59,504	169
MDX-60L-100-277-5K-T5-H2-CG-GRY-PND	380	5000K	T5	Clear Glass	54,596	155
MDX-70L-100-277-5K-30-H2-CG-GRY-PND	440	5000K	30	Clear Glass	71,035	172
MDX-70L-100-277-5K-60-H2-CG-GRY-PND	440	5000K	60	Clear Glass	70,889	172
MDX-70L-100-277-5K-90-H2-CG-GRY-PND	440	5000K	90	Clear Glass	72,190	175
MDX-70L-100-277-5K-120-H2-CG-GRY-PND	440	5000K	120	Clear Glass	69,987	170
MDX-70L-100-277-5K-T2-H2-CG-GRY-PND	440	5000K	T2	Clear Glass	65,473	159
MDX-70L-100-277-5K-T3-H2-CG-GRY-PND	440	5000K	T3	Clear Glass	68,076	165
MDX-70L-100-277-5K-T5-H2-CG-GRY-PND	440	5000K	T5	Clear Glass	62,659	152

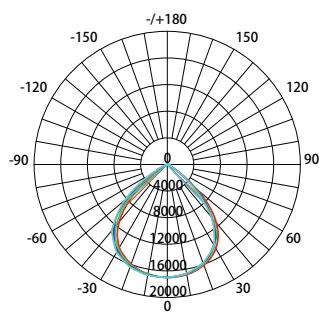
PHOTOMETRIC



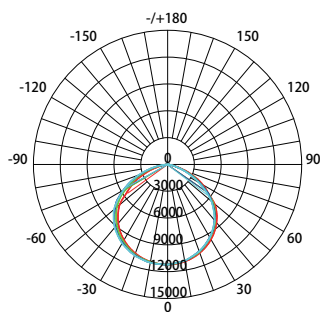
30°
NEMA 3 - Medium Narrow



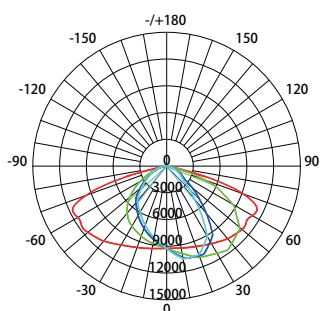
60°
NEMA 4 - Medium



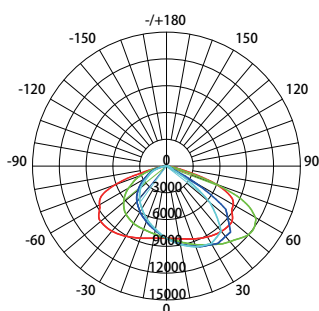
90°
NEMA 5 - Medium Wide



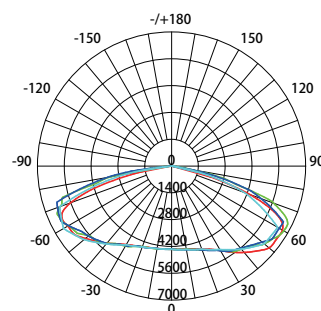
120°
NEMA 6 - Wide



Type II



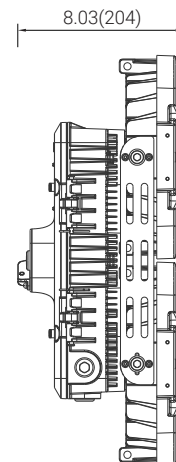
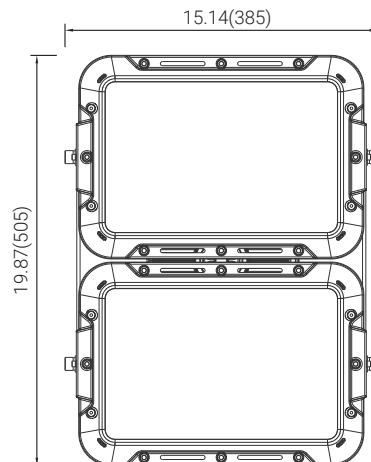
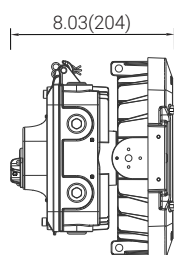
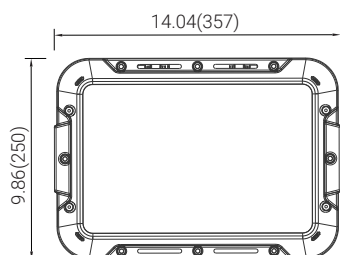
Type III



Type V
NEMA 7 - Very Wide

DIMENSIONS

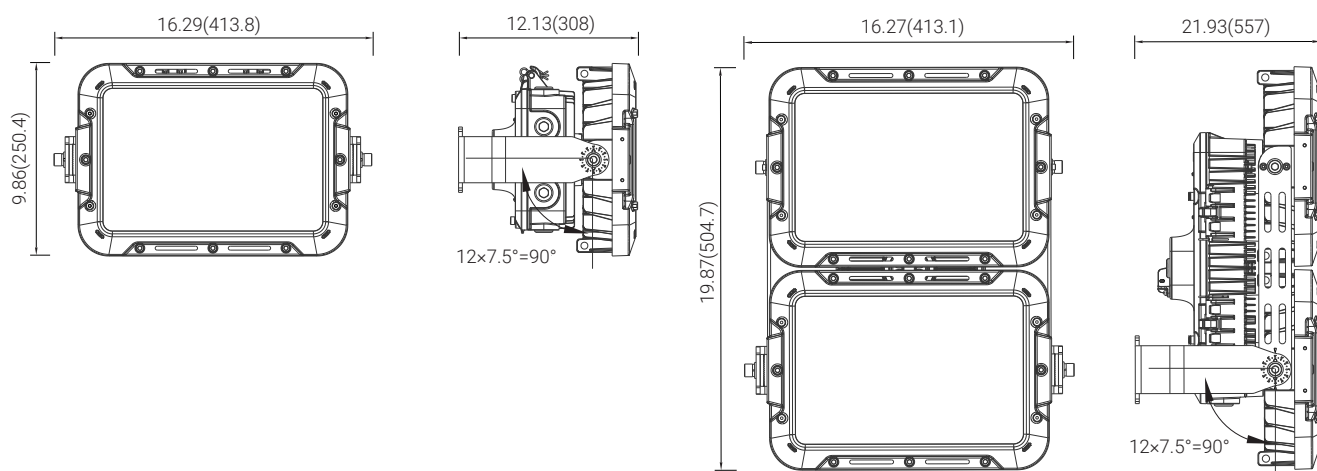
unit: in(mm)



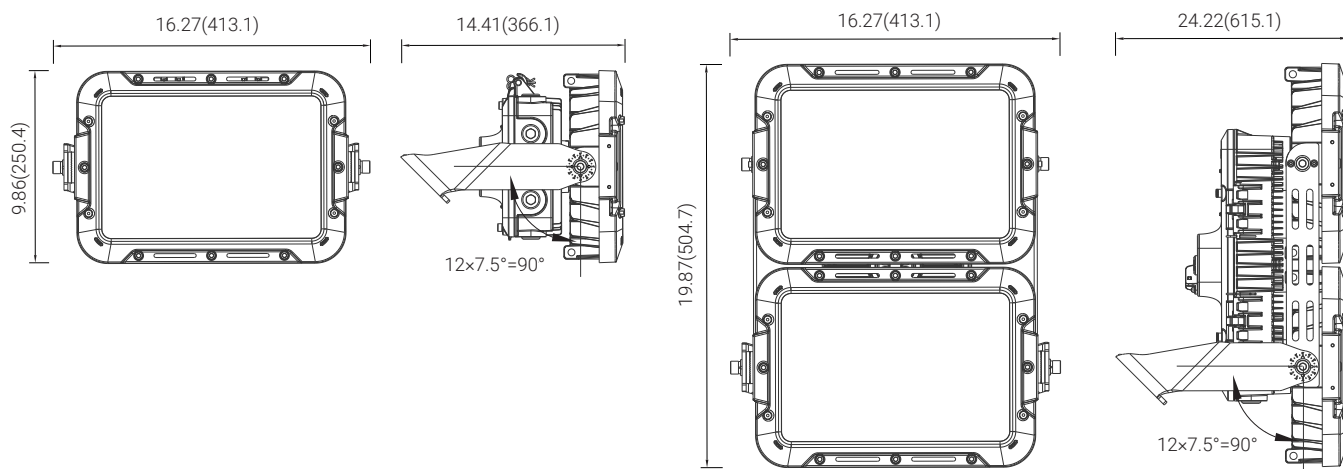
Pendant

DIMENSIONS

unit: in(mm)

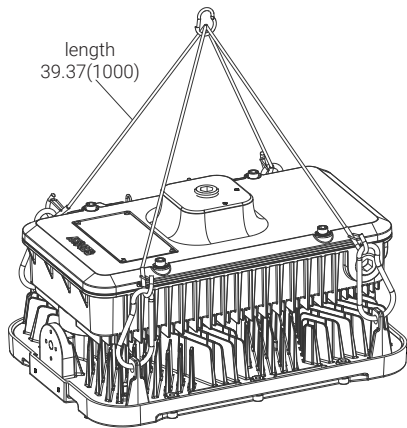


Straight Yoke

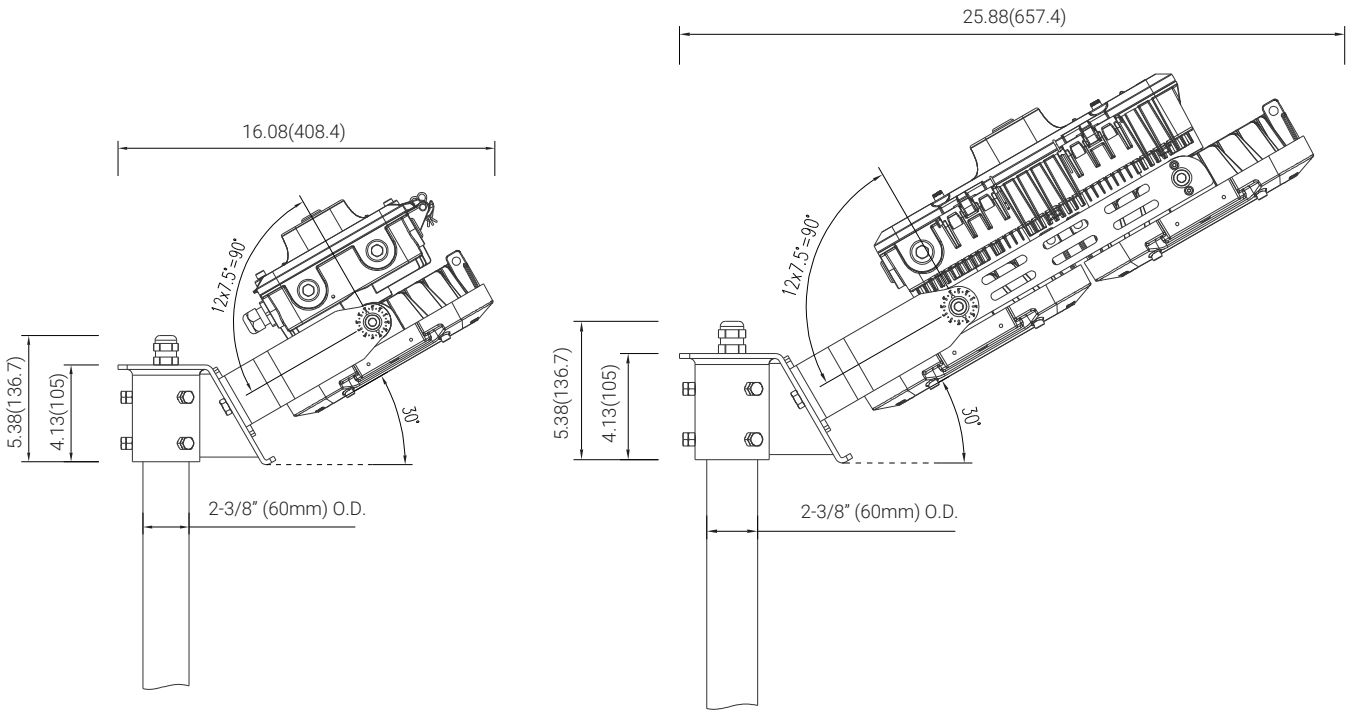


Angled Yoke

unit: in(mm)



Chain



Stanchion

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA ²
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³
Combustible Carbonaceous Dust		Group F	IIIB ³
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA ³

Note 1: Group E is applicable to Class II, Division 1 only.
 Note 2: Methane is a Group IIA Gas for non-mining applications.
 Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Temperature Classification

Max. Surface Temperatures	NEC® 500 CEC®	NEC® 500/IEC-Group II
450(842)	T1	T1
300(572)	T2	
280(536)	T2A	T2
260(500)	T2B	
230(446)	T2C	
215(419)	T2D	
200(392)	T3	
180(256)	T3A	T3
165(329)	T3B	
160(320)	T3C	
135(275)	T4	T4
120(248)	T4A	
100(212)	T5	T5
85(185)	T6	T6

Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof
2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact



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Disclaimer

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