

MODULAR HOT SERIES

70°C HIGHBAY



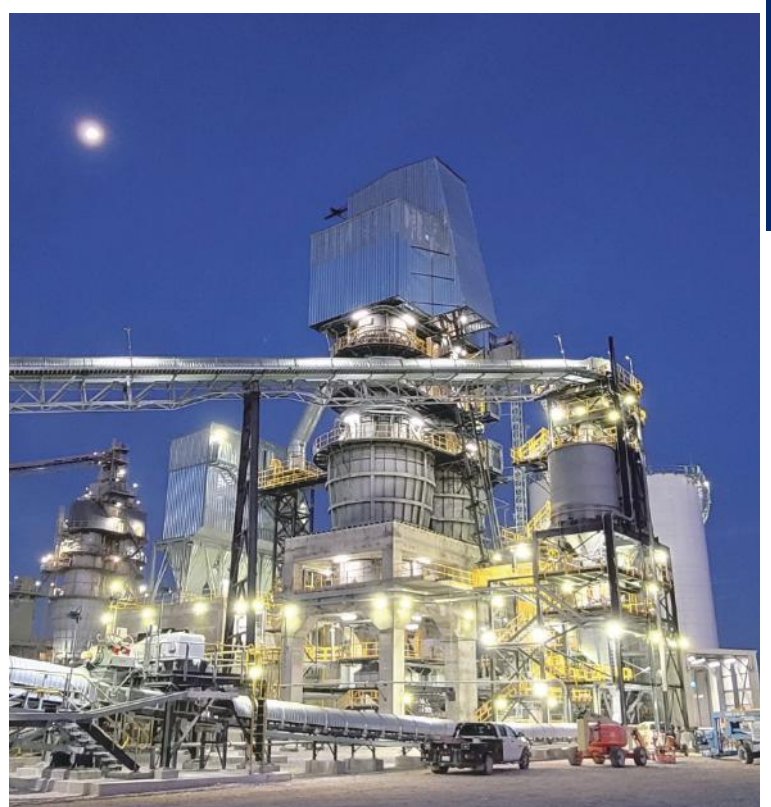
Reliable. Durable. Efficient.
30,000 to 120,000 lumen models

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

🔥 FAST DELIVERY

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

🔥 TOP-NOTCH SERVICES

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

🔥 SUSTAINABLE SOLUTIONS

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

MODULAR HOT SERIES

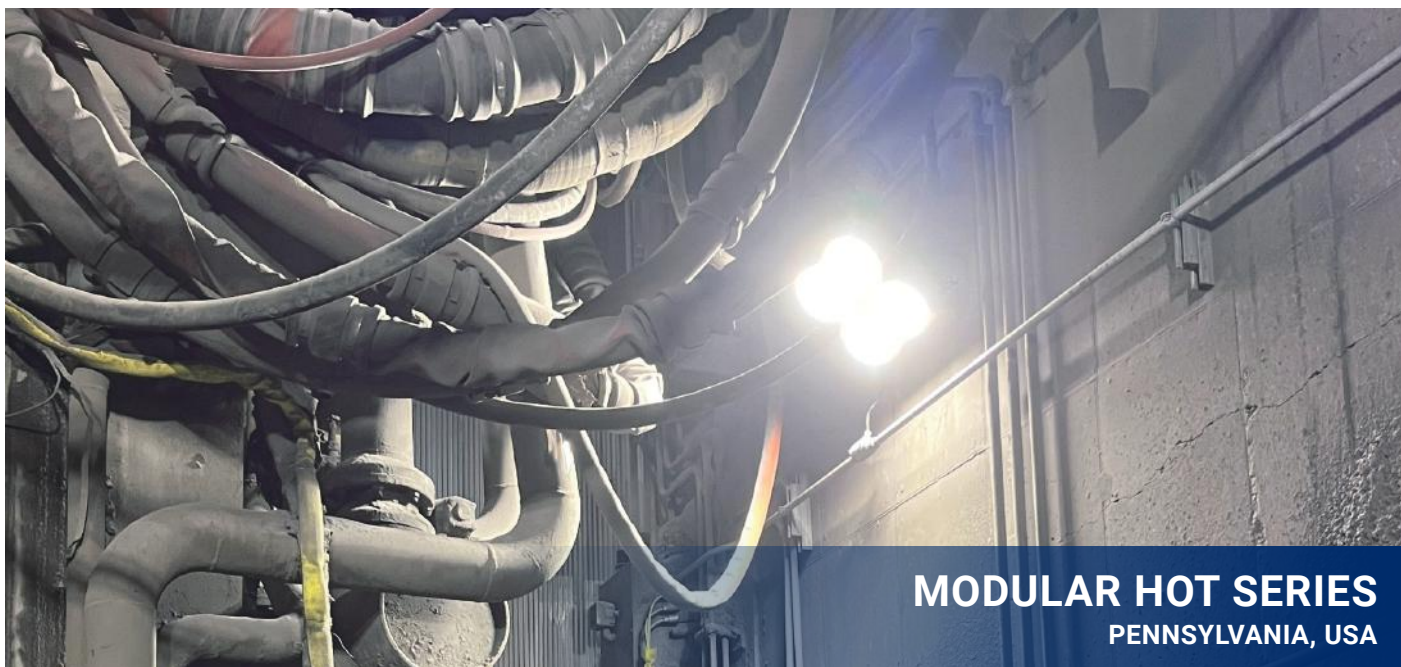


The Modular Hot Series (MDH) by Red Sky Lighting is purpose-engineered to deliver powerful, dependable illumination in the most demanding high-temperature environments. Designed with up to four LED modules, the MDH produces 30,000 to 120,000 lumens — the equivalent of 400–2000W HID/MH fixtures — while reducing energy and maintenance costs by up to 80%.

With seven precision light distribution options, the MDH adapts to a wide range of industrial applications, including die casting, metalworks, ironmaking, steel production, power generation, and chemical facilities. Built for reliability, it withstands extreme conditions with IP67 waterproof and dustproof protection, 3G vibration resistance, and IK08 (glass)/IK10 (PC) impact ratings.

The MDH is not only tough but also efficient and sustainable, achieving up to 150 lm/W luminous efficacy and offering a rated service life of over 110,000 hours at 158°F (70°C). Maintenance-free operation reduces downtime, while durable marine-grade aluminum housing and 316 stainless steel hardware ensure long-lasting performance, even in corrosive environments.

Backed by Red Sky Lighting's standard 5-year warranty, the Modular Hot Series represents more than just a highbay fixture — it's a trusted solution for safety, durability, and sustainable performance in harsh and hazardous industries.



MODULAR HOT SERIES

PENNSYLVANIA, USA

FEATURES



Extreme Temperature Performance

Rated for continuous operation up to 158°F (70°C), built for the harshest industrial environments.

High Output, Low Cost

30,000 to 120,000 lumens, 400–2000W HID/MH, with up to 80% energy and maintenance savings.

Unmatched Longevity

L70 >110,000 hours at high temperatures ensures years of dependable, maintenance-free performance.

Rugged & Reliable Safety

Built with marine-grade aluminum and 316 stainless steel, rated IP66/IP67, IK08/IK10, and certified for proven durability in harsh environments.

RATINGS

UL 1598 Wet Locations
IP66/IP67
IK08 (Glass)/IK10 (PC)
Salt Spray 720 hrs (ASTM B117)
3G vibration

CERTIFICATIONS

UL1598
CSA C22.2 No. 250.0
DLC Standard*
FCC Part 15, Subpart B

* Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification.

TECHNICAL PARAMETERS

Specification	MDH-200	MDH-400	MDH-600	MDH-800
Electrical Parameters				
Power	200W	400W	600W	800W
Rated Input Current(120V AC)	1.852A	3.704A	5.556A	7.408A
Rated Input Current(277V AC)	0.803A	1.605A	2.407A	3.209A
Rated Input Current(347V AC)	0.641A	1.281A	1.922A	2.562A
Rated Input Current(480V AC)	0.463A	0.926A	1.389A	1.852A
Voltage/Frequency	120-277V AC / 347-480V AC, 50/60Hz			
Power Factor	≥0.90			
THD	<20%			
L70	110,000 hrs@158°F			
Dimming	0-10V, Range 0-100%			
Surge Protection	10KV			
Supply Wire	12-18AWG , Rated 90°C			
Warranty	5 Years			
Optical Parameters				
Lumen Output*	29,993Lm	58,653Lm	93,290Lm	120,634Lm
Lumen Efficacy*	150Lm/W			
Available Beam Angle	15°/30°/60°/90°/30*120°/T3 (Polycarbonate)/120°(Glass)			
Correlated Color Temperature (CCT)	5000K			
Color Rendering Index (CRI)	80 CRI			
Mechanical Parameters				
Housing Material	Marine Grade Aluminium			
Hardware	Stainless steel 316			
Lens Material	Tempered Glass or Polycarbonate			
Mounting Options	Yoke			
Product Weight**	21lbs/9.5kg	38.8lbs/17.6kg	62.2lbs/28.2kg	80.6lbs/36.6kg
Package Weight**	23.1lbs/10.5kg	40.9lbs/18.6kg	64.3lbs/29.2kg	82.7lbs/37.6kg
Connection	5ft Power Cord	3ft Power Cord		
Product Dimensions(L×W×H)**	16.5×10.6×10.9in (420x270x277mm)	19.5×16.5×10.9in (495x420x277mm)	29.1×16.5×10.9in (740x420x277mm)	38×16.5×10.9in (964x420x277mm)
Package Dimensions(L×W×H)**	21.8×15×8.9in (554x380x226mm)	23.8×21.8×8.9in (605x554x226mm)	33.8×22.8×9.1in (858x578x231mm)	42.7×22.8×9.1in (1085x578x231mm)
Environmental Parameters				
Maximum Ambient Temperature	Glass:158°F(70°C), PC: 149°F(65°C)			
Installation	MIN 90°C SUPPLY CONDUCTORS			
EPA wind rating (FT2/m2)	1.164/0.136	2.685/0.250	4.015/0.373	5.231/0.486

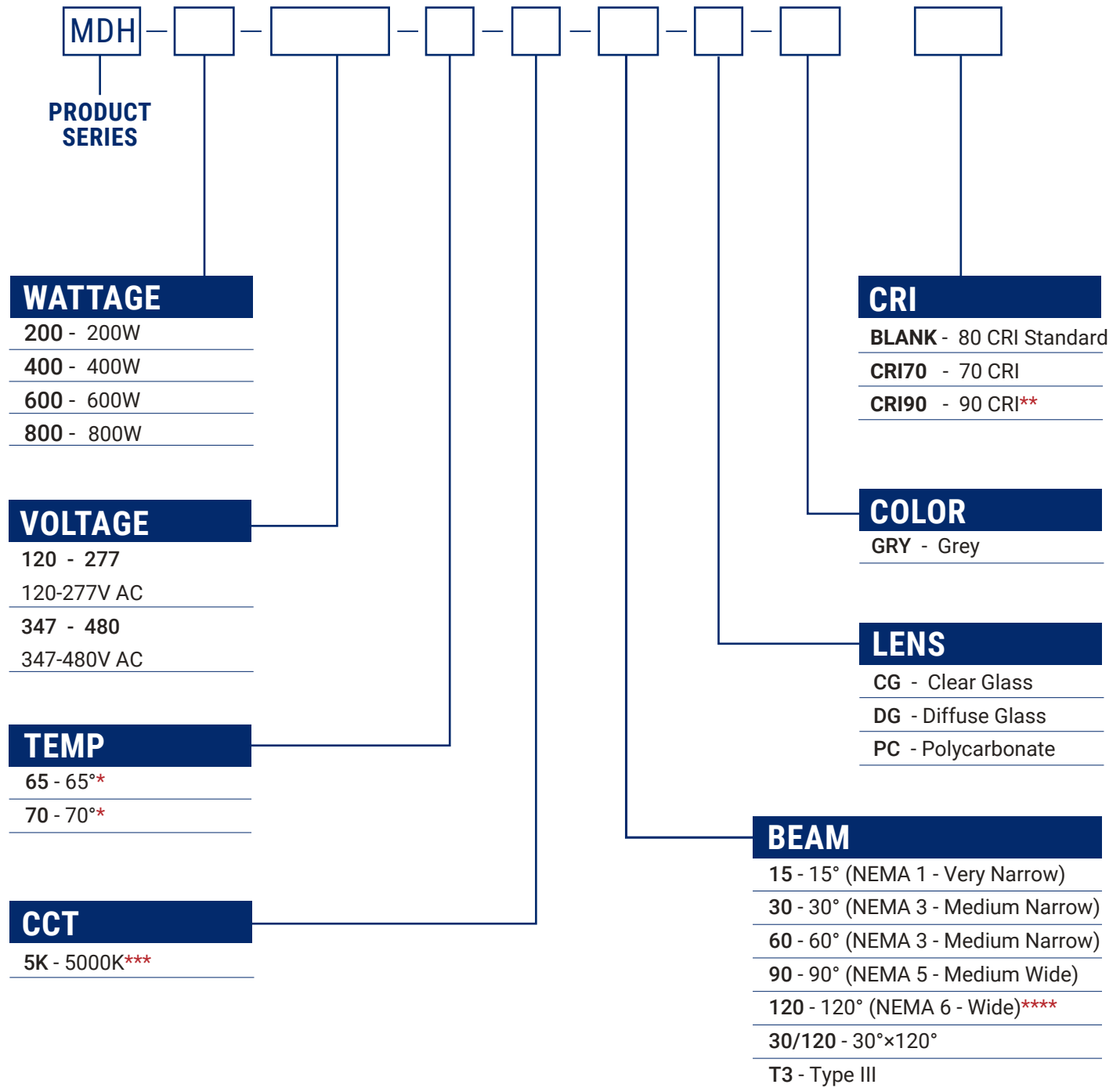
* Value calculated based on 5000K, 80 CRI and Clear glass ,varies to different spec.

70 CRI & 90 CRI optional, DLC available with 70 CRI only.

** Data statistics are based on the Yoke installation method.

ORDERING INFORMATION

EXAMPLE: MDH-400-120-277-70-5K-120-CG-GRY



* 70°C rating for glass lens options only, Polycarbonate lens rated for 65°C

** CRI70 - 70 CRI, CRI90 - 90 CRI, CRI 90 option – expect longer lead time

*** For other CCT options, please contact your sales representative.

**** Glass lens only available with 120° optic

**** PC lens available with all optic options but 120° optic

***** 400W 600W 800W pre-installed with Junction Box and 3ft cord,
custom cord length available upon request

OTHER ACCESSORIES

PN	Description	MPN Code
WG-012-A-01*	Wire Guard for 1 Module, SUS316	106060056
SFCB-012-A-01	Safety Cable Kit, SUS304	310010178
MDH-CAX	Extension Cord, STW-18/3, 600V, 105 degrees Celsius (3 ft)	103040080

* Safety Cable Kit Pre-installed, no need to order Safety Cable Kit.

REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
MDH-200-120-277-Driver (15 degrees, T3)	Replacement Driver Kit for MDH-200-120-277 (15 degrees, T3) Fixtures	303010103
MDH-200-120-277-Driver (30 degrees, 60 degrees, 120 degrees, 30 x 120 degrees)	Replacement Driver Kit for MDH-200-120-277 (30 degrees, 60 degrees, 120 degrees, 30 x 120 degrees) Fixtures	303010104
MDH-200-347-480-Driver (15 degrees, T3)	Replacement Driver Kit for MDH-200-347-480 (15 degrees, T3) Fixtures	303010105
MDH-200-347-480-Driver (30 degrees, 60 degrees, 120 degrees, 30 x 120 degrees)	Replacement Driver Kit for MDH-200-347-480 (30 degrees, 60 degrees, 120 degrees, 30 x 120 degrees) Fixtures	303010106
CG008-A-01	Replacement Clear Glass Lens for CMF 120 Degrees, MDH	303030019
DG008-A-01	Replacement Diffuse Glass Lens for CMF 120 Degrees, MDH	303030029

LUMEN TABLE

Part Number	Wattage (W)	TEMP.	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277VAC 80 CRI • STANDARD								
MDH-200-120-277-70-5K-120-CG-GRY	200	70°	5000K	80	120°	Clear Glass	29,993	151
MDH-200-120-277-65-5K-90-PC-GRY	200	65°	5000K	80	90°	PC	27,630	138
MDH-200-120-277-65-5K-60-PC-GRY	200	65°	5000K	80	60°	PC	27,121	136
MDH-200-120-277-65-5K-30-PC-GRY	200	65°	5000K	80	30°	PC	25,950	130
MDH-200-120-277-65-5K-15-PC-GRY	200	65°	5000K	80	15°	PC	27,834	132
MDH-200-120-277-65-5K-30/120-PC-GRY	200	65°	5000K	80	30°x120°	PC	26,303	136
MDH-200-120-277-65-5K-T3-PC-GRY	200	65°	5000K	80	Type III	PC	28,095	133
MDH-400-120-277-70-5K-120-CG-GRY	400	70°	5000K	80	120°	Clear Glass	58,653	149
MDH-400-120-277-65-5K-90-PC-GRY	400	65°	5000K	80	90°	PC	51,229	136
MDH-400-120-277-65-5K-60-PC-GRY	400	65°	5000K	80	60°	PC	49,660	132
MDH-400-120-277-65-5K-30-PC-GRY	400	65°	5000K	80	30°	PC	47,937	128
MDH-400-120-277-65-5K-15-PC-GRY	400	65°	5000K	80	15°	PC	51,417	130
MDH-400-120-277-65-5K-30/120-PC-GRY	400	65°	5000K	80	30°x120°	PC	49,787	132
MDH-400-120-277-65-5K-T3-PC-GRY	400	65°	5000K	80	Type III	PC	50,350	128
MDH-600-120-277-70-5K-120-CG-GRY	600	70°	5000K	80	120°	Clear Glass	93,290	162
MDH-600-120-277-65-5K-90-PC-GRY	600	65°	5000K	80	90°	PC	77,353	132
MDH-600-120-277-65-5K-60-PC-GRY	600	65°	5000K	80	60°	PC	79,013	135
MDH-600-120-277-65-5K-30-PC-GRY	600	65°	5000K	80	30°	PC	73,620	126
MDH-600-120-277-65-5K-15-PC-GRY	600	65°	5000K	80	15°	PC	76,958	132
MDH-600-120-277-65-5K-30/120-PC-GRY	600	65°	5000K	80	30°x120°	PC	75,387	128
MDH-600-120-277-65-5K-T3-PC-GRY	600	65°	5000K	80	Type III	PC	75,225	129
MDH-800-120-277-70-5K-120-CG-GRY	800	70°	5000K	80	120°	Clear Glass	120,634	152
MDH-800-120-277-65-5K-90-PC-GRY	800	65°	5000K	80	90°	PC	113,526	142
MDH-800-120-277-65-5K-60-PC-GRY	800	65°	5000K	80	60°	PC	112,996	141
MDH-800-120-277-65-5K-30-PC-GRY	800	65°	5000K	80	30°	PC	109,184	137
MDH-800-120-277-65-5K-15-PC-GRY	800	65°	5000K	80	15°	PC	115,614	138
MDH-800-120-277-65-5K-30/120-PC-GRY	800	65°	5000K	80	30°x120°	PC	114,544	143
MDH-800-120-277-65-5K-T3-PC-GRY	800	65°	5000K	80	Type III	PC	114,179	136

347–480Vac models deliver the same lumen output as the 120–277Vac models.

This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales

Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN TABLE

Part Number	Wattage (W)	TEMP.	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277V AC 70 CRI								
MDH-200-120-277-70-5K-120-CG-GRY CRI70	200	70°	5000K	70	120°	Clear Glass	30,521	159
MDH-200-120-277-65-5K-90-PC-GRY CRI70	200	65°	5000K	70	90°	PC	29,642	153
MDH-200-120-277-65-5K-60-PC-GRY CRI70	200	65°	5000K	70	60°	PC	29,730	153
MDH-200-120-277-65-5K-30-PC-GRY CRI70	200	65°	5000K	70	30°	PC	28,084	145
MDH-200-120-277-65-5K-15-PC-GRY CRI70	200	65°	5000K	70	15°	PC	26,297	143
MDH-200-120-277-65-5K-30/120-PC-GRY CRI70	200	65°	5000K	70	30°x120°	PC	28,252	146
MDH-200-120-277-65-5K-T3-PC-GRY CRI70	200	65°	5000K	70	Type III	PC	25,884	140
MDH-400-120-277-70-5K-120-CG-GRY CRI70	400	70°	5000K	70	120°	Clear Glass	57,516	154
MDH-400-120-277-65-5K-90-PC-GRY CRI70	400	65°	5000K	70	90°	PC	55,026	146
MDH-400-120-277-65-5K-60-PC-GRY CRI70	400	65°	5000K	70	60°	PC	53,340	142
MDH-400-120-277-65-5K-30-PC-GRY CRI70	400	65°	5000K	70	30°	PC	51,490	137
MDH-400-120-277-65-5K-15-PC-GRY CRI70	400	65°	5000K	70	15°	PC	55,228	140
MDH-400-120-277-65-5K-30/120-PC-GRY CRI70	400	65°	5000K	70	30°x120°	PC	53,477	142
MDH-400-120-277-65-5K-T3-PC-GRY CRI70	400	65°	5000K	70	Type III	PC	54,082	137
MDH-600-120-277-70-5K-120-CG-GRY CRI70	600	70°	5000K	70	120°	Clear Glass	87,595	151
MDH-600-120-277-65-5K-90-PC-GRY CRI70	600	65°	5000K	70	90°	PC	83,086	142
MDH-600-120-277-65-5K-60-PC-GRY CRI70	600	65°	5000K	70	60°	PC	84,869	145
MDH-600-120-277-65-5K-30-PC-GRY CRI70	600	65°	5000K	70	30°	PC	79,076	135
MDH-600-120-277-65-5K-15-PC-GRY CRI70	600	65°	5000K	70	15°	PC	82,662	142
MDH-600-120-277-65-5K-30/120-PC-GRY CRI70	600	65°	5000K	70	30°x120°	PC	80,974	138
MDH-600-120-277-65-5K-T3-PC-GRY CRI70	600	65°	5000K	70	Type III	PC	80,800	139
MDH-800-120-277-70-5K-120-CG-GRY CRI70	800	70°	5000K	70	120°	Clear Glass	114,598	148
MDH-800-120-277-65-5K-90-PC-GRY CRI70	800	65°	5000K	70	90°	PC	107,917	139
MDH-800-120-277-65-5K-60-PC-GRY CRI70	800	65°	5000K	70	60°	PC	106,745	137
MDH-800-120-277-65-5K-30-PC-GRY CRI70	800	65°	5000K	70	30°	PC	102,824	133
MDH-800-120-277-65-5K-15-PC-GRY CRI70	800	65°	5000K	70	15°	PC	104,590	135
MDH-800-120-277-65-5K-30/120-PC-GRY CRI70	800	65°	5000K	70	30°x120°	PC	103,525	134
MDH-800-120-277-65-5K-T3-PC-GRY CRI70	800	65°	5000K	70	Type III	PC	102,305	132

347–480Vac models deliver the same lumen output as the 120–277Vac models.

This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales

Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN TABLE

Part Number	Wattage (W)	TEMP.	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277V AC 90 CRI								
MDH-200-120-277-70-5K-120-CG-GRY CRI90	200	70°	5000K	90	120°	Clear Glass	24,203	126
MDH-200-120-277-65-5K-90-PC-GRY CRI90	200	65°	5000K	90	90°	PC	23,506	121
MDH-200-120-277-65-5K-60-PC-GRY CRI90	200	65°	5000K	90	60°	PC	23,576	121
MDH-200-120-277-65-5K-30-PC-GRY CRI90	200	65°	5000K	90	30°	PC	22,271	115
MDH-200-120-277-65-5K-15-PC-GRY CRI90	200	65°	5000K	90	15°	PC	20,854	113
MDH-200-120-277-65-5K-30/120-PC-GRY CRI90	200	65°	5000K	90	30°x120°	PC	22,404	116
MDH-200-120-277-65-5K-T3-PC-GRY CRI90	200	65°	5000K	90	Type III	PC	20,526	111
MDH-400-120-277-70-5K-120-CG-GRY CRI90	400	70°	5000K	90	120°	Clear Glass	45,610	122
MDH-400-120-277-65-5K-90-PC-GRY CRI90	400	65°	5000K	90	90°	PC	43,636	116
MDH-400-120-277-65-5K-60-PC-GRY CRI90	400	65°	5000K	90	60°	PC	42,299	113
MDH-400-120-277-65-5K-30-PC-GRY CRI90	400	65°	5000K	90	30°	PC	40,832	109
MDH-400-120-277-65-5K-15-PC-GRY CRI90	400	65°	5000K	90	15°	PC	43,796	111
MDH-400-120-277-65-5K-30/120-PC-GRY CRI90	400	65°	5000K	90	30°x120°	PC	42,407	113
MDH-400-120-277-65-5K-T3-PC-GRY CRI90	400	65°	5000K	90	Type III	PC	42,887	109
MDH-600-120-277-70-5K-120-CG-GRY CRI90	600	70°	5000K	90	120°	Clear Glass	69,463	120
MDH-600-120-277-65-5K-90-PC-GRY CRI90	600	65°	5000K	90	90°	PC	65,887	113
MDH-600-120-277-65-5K-60-PC-GRY CRI90	600	65°	5000K	90	60°	PC	67,301	115
MDH-600-120-277-65-5K-30-PC-GRY CRI90	600	65°	5000K	90	30°	PC	62,707	107
MDH-600-120-277-65-5K-15-PC-GRY CRI90	600	65°	5000K	90	15°	PC	65,551	113
MDH-600-120-277-65-5K-30/120-PC-GRY CRI90	600	65°	5000K	90	30°x120°	PC	64,212	109
MDH-600-120-277-65-5K-T3-PC-GRY CRI90	600	65°	5000K	90	Type III	PC	64,074	110
MDH-800-120-277-70-5K-120-CG-GRY CRI90	800	70°	5000K	90	120°	Clear Glass	90,876	117
MDH-800-120-277-65-5K-90-PC-GRY CRI90	800	65°	5000K	90	90°	PC	85,578	110
MDH-800-120-277-65-5K-60-PC-GRY CRI90	800	65°	5000K	90	60°	PC	84,649	109
MDH-800-120-277-65-5K-30-PC-GRY CRI90	800	65°	5000K	90	30°	PC	81,539	105
MDH-800-120-277-65-5K-15-PC-GRY CRI90	800	65°	5000K	90	15°	PC	82,940	107
MDH-800-120-277-65-5K-30/120-PC-GRY CRI90	800	65°	5000K	90	30°x120°	PC	82,095	106
MDH-800-120-277-65-5K-T3-PC-GRY CRI90	800	65°	5000K	90	Type III	PC	81,128	105

347–480Vac models deliver the same lumen output as the 120–277Vac models.

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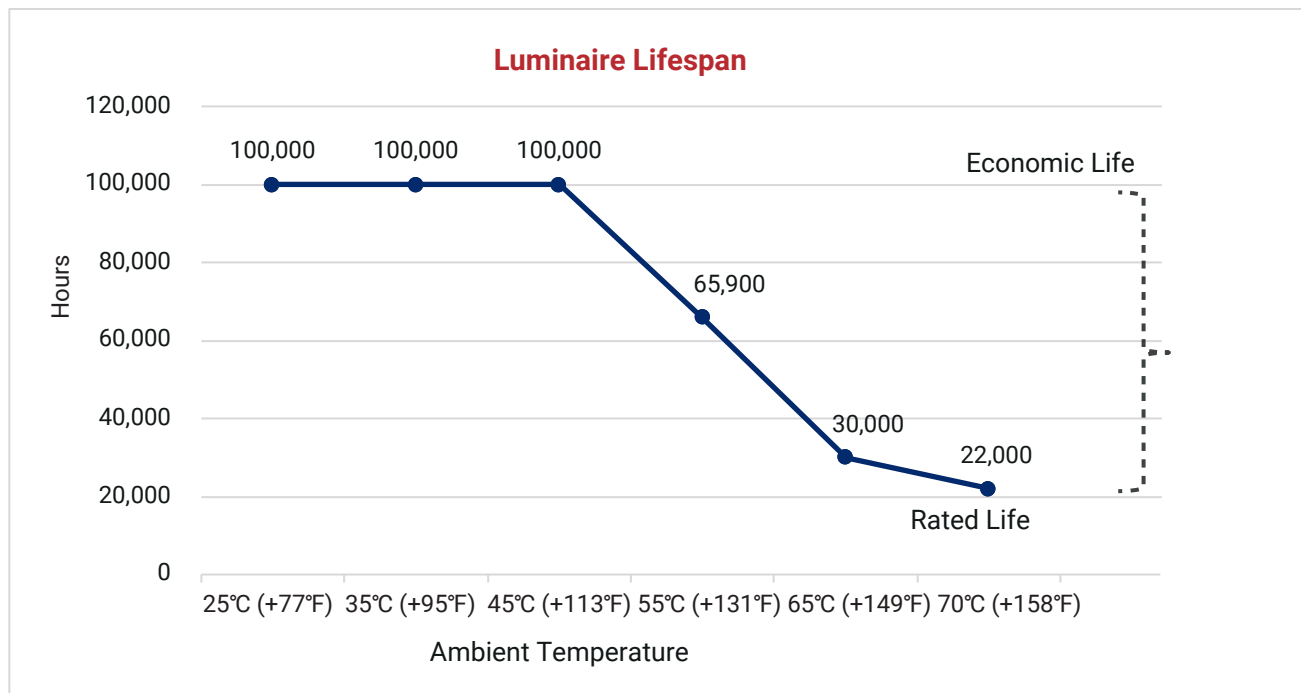
Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN MAINTENANCE

Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	98%	95%	92%	89%	86%	83%	82%	73%
35°C	100%	98%	95%	91%	89%	86%	83%	81%	73%
45°C	100%	97%	93%	90%	87%	84%	81%	79%	70%
55°C	100%	97%	93%	89%	86%	83%	80%	77%	68%
65°C	100%	96%	92%	89%	85%	82%	78%	76%	66%
70°C	100%	96%	92%	88%	84%	81%	77%	75%	65%

LUMEN LIFESPAN

Ambient Temperature	Luminaire Lifespan (Hours)	Rated Service Life - Years (24/7 Operation)	Rated Service Life - Years (12/7 Operation)
25°C(+77°F)	100,000	11	23
35°C(+95°F)	100,000	11	23
45°C(+113°F)	100,000	11	23
55°C(+131°F)	65,900	8	15
65°C(+149°F)	30,000	3	7
70°C(+158°F)	22,000	3	5



Information shown for reference only and may vary by configuration.

A DIRECT RETROFIT FROM HID TO LED

The MDH series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 400-watt Modular Hot (MDH-400) delivers virtually the same illumination as its equivalent 1500 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 110,000 hours of continuous operation.

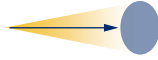
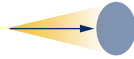
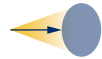
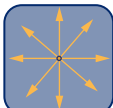
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
MDH-200	29,993	750	600
MDH-400	58,563	1000~1500	1000
MDH-600	93,290	1800	N.A
MDH-800	120,634	N.A	N.A

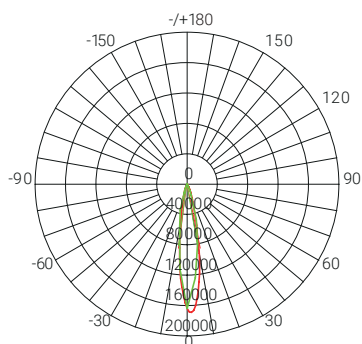
THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

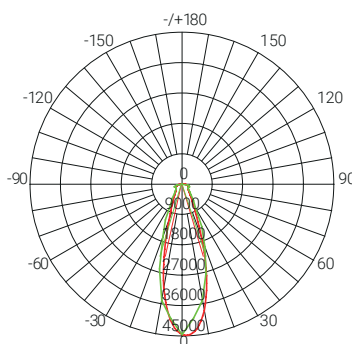
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize energy savings—all within budget.

Simply fill out the form (<https://dev.redskylighting.com/lighting-design>) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

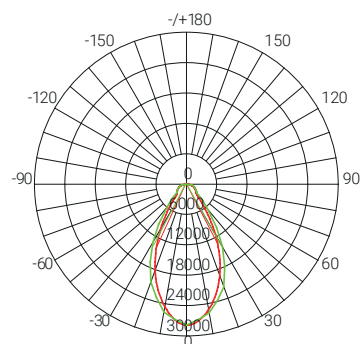
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric distributions, well suited for narrow areas, such as roadways, paths and driveways.	
T3	Type III	Asymmetric distributions, well suited for site / area perimeters, wide roadways, and open areas.	
T5	NEMA 7 Type V (Square)	Very Wide: symmetrical pattern with excellent uniformity for large, open areas.	



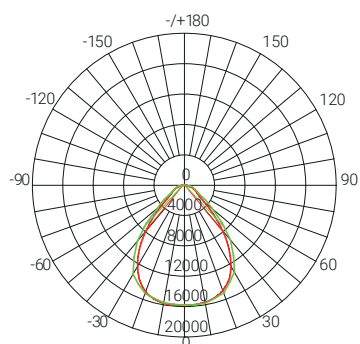
**15°
NEMA 1 - Very Narrow**



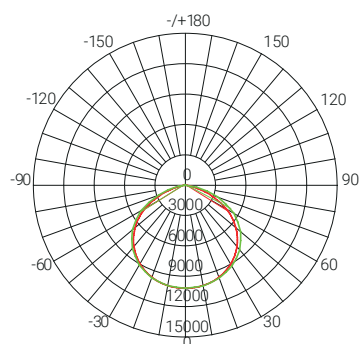
**30°
NEMA 3 - Medium Narrow**



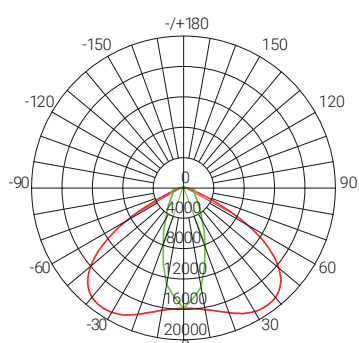
**60°
NEMA 3 - Medium Narrow**



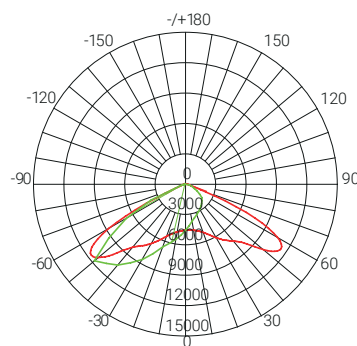
**90°
NEMA 5 - Medium Wide**



**120°
NEMA 6 - Wide**



30°x120°

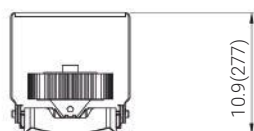
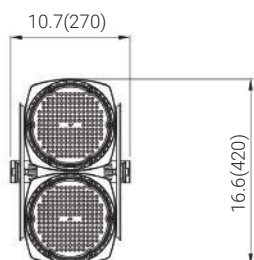


Type III

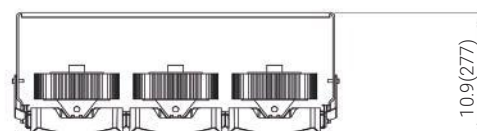
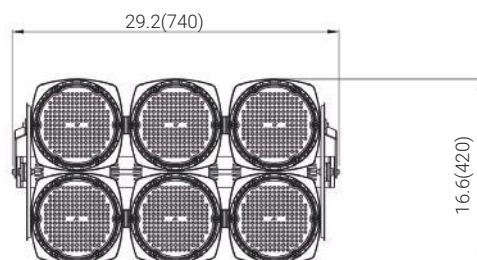
DIMENSIONS

unit: in (mm)

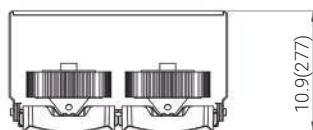
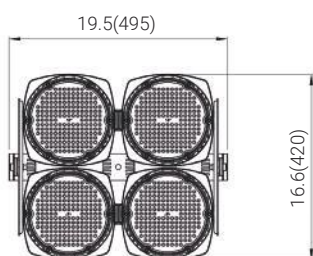
200W



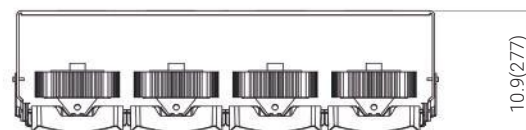
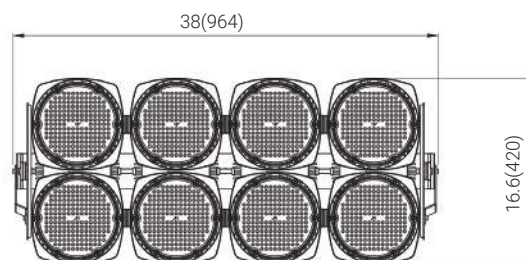
600W



400W



800W





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Disclaimer

All product information is subject to change without notice.
Please contact Red Sky Lighting or your sales representative for the most up-to-date specifications.

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