

MODULAR HOT SERIES

70°C HIGHBAY



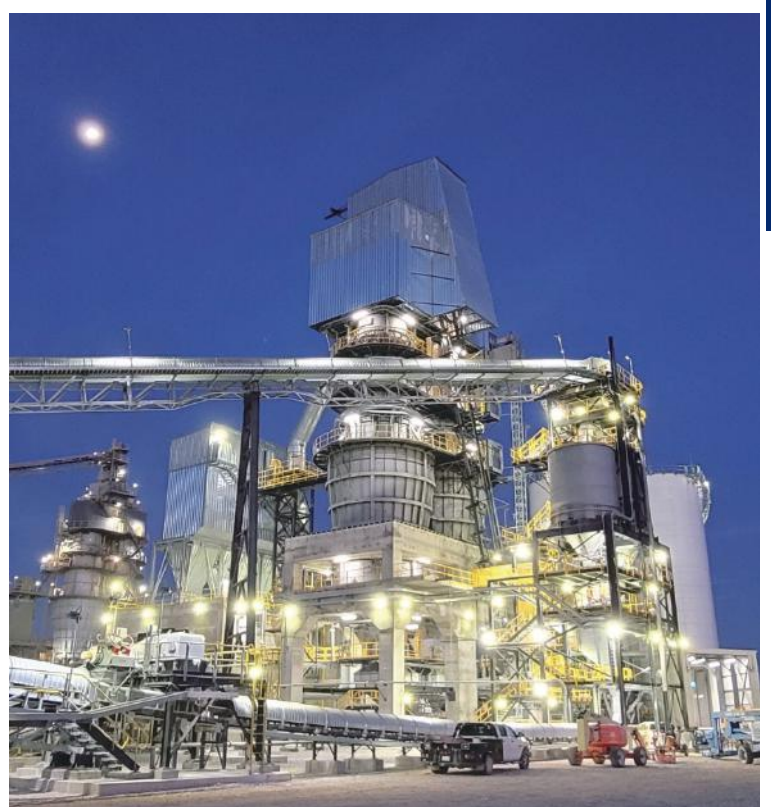
Reliable. Durable. Efficient.
30,000 to 120,000 lumen models

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



Introducing the Modular Hot Series by Red Sky Lighting, the ultimate solution for high temperature environments. Designed with up to four LED modules, our Modular Hot Series provides unparalleled light output, equivalent to 400-2000W HID/MH lighting (30,500 to 114,500 lumens), while simultaneously reducing maintenance and energy costs by approximately 70%.

With seven different light distribution options, our Modular Hot Series caters to the specific demands of various areas within your facility. Whether it's die casting, metalworks, ironmaking, steel production, power generation facilities, or chemical plants, our lighting system is perfectly suited for the rigorous conditions common to metal manufacturing industries such as steel plants and foundries.

Not only are our lights maintenance-free, but they also boast exceptional longevity, rated to last over 122,000 hours at 158°F. This ensures reliable illumination over the long term, even in the toughest conditions.

At Red Sky Lighting, we stand behind the quality of our products. That's why we offer a standard 5-year warranty. Trust in Red Sky Lighting to provide you with cutting-edge LED lighting solutions that surpass your expectations



MODULAR HOT SERIES

PENNSYLVANIA, USA

FEATURES



The Most Powerful Highbay designed for High Temp. Applications

Four lumen outputs provide 400-2,000W HID/MH equivalent lighting (30,500 to 114,500Lm) that saves 70% percent in maintenance and energy costs

7 Choices of Light Distributions

Long Fixture life

L70 >122,000 hrs@158°F
Maintenance-free and safe operation

RATINGS

UL 1598 Wet Locations
IP66/IP67
IK08 (Glass)/IK10 (PC)
Salt Spray 720 hrs (ISO 9227)

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.

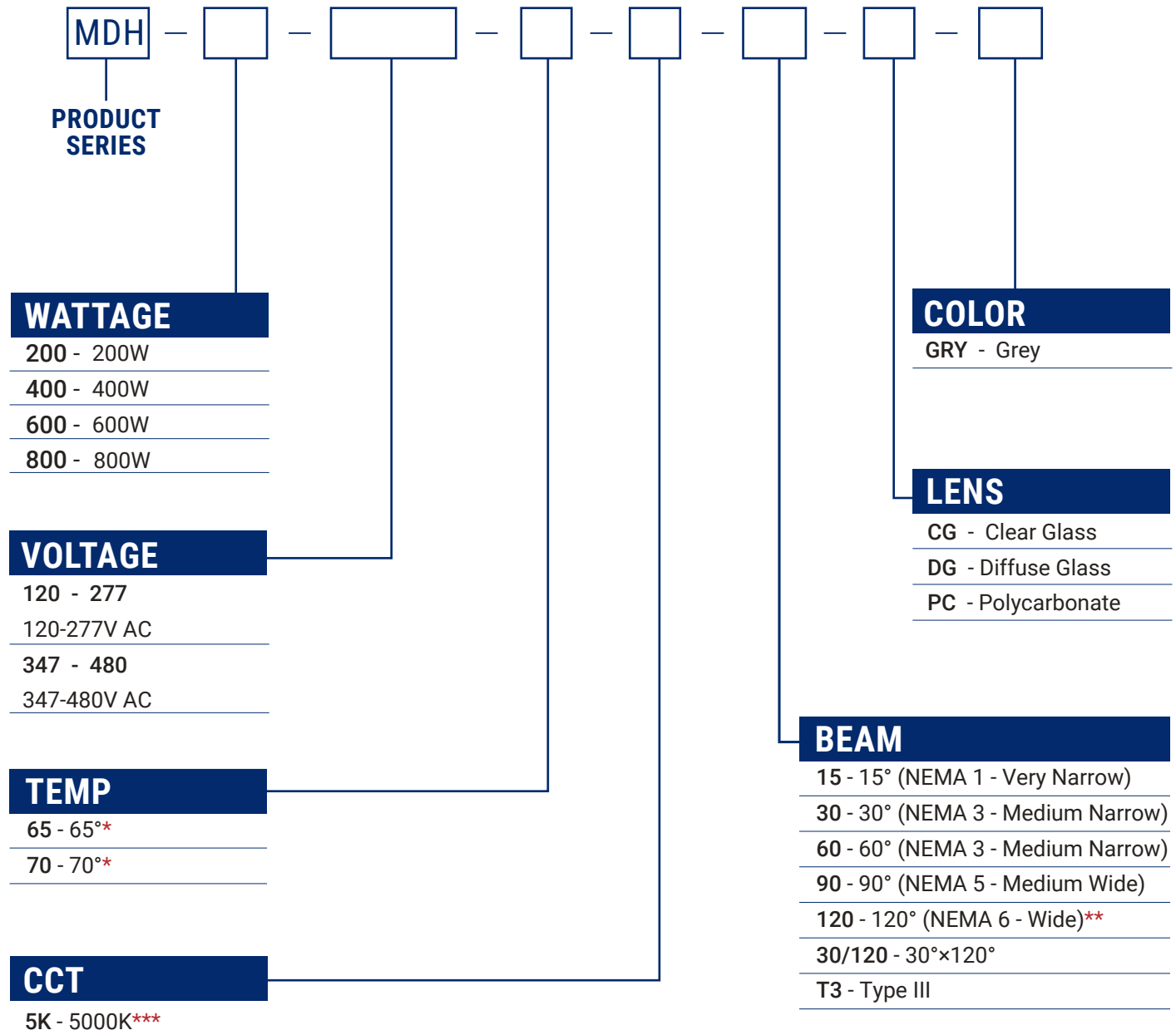
TECHNICAL PARAMETERS

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	122,000 hrs@158°F			
Dimming	0-10V, Range 0-100%			
Surge Protection	L/N-FG 6KV , L-N 4KV			
Supply Wire	12-18AWG , Rated 90°C			
Warranty	5 Years			
Optical Parameters				
Lumen Output*	30,521Lm	57,516Lm	87,595Lm	114,598Lm
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)	Ra>70			
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 and Clear Glass, varies to different spec.

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

** Glass lens only available with 120° optic

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

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

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

OTHER ACCESSORIES

PN	Description	MPN Code
MDH-WG	Wire Guard for 1 Module	106060027
SFCB-012-A-01	Safety Cable Kit, SUS304	309050395
MDH-CAX	Extension Cord, STW-18/3, 600V, 105 degrees Celsius (3 ft)	103040080

REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
MDH-200-120-277-Driver (15°, T3)	Replacement Driver Kit for MDH-200-120-277(15°, T3) Fixtures	303010103
MDH-200-120-277-Driver (30°, 60°, 120°, 30/120)	Replacement Driver Kit for MDH-200-120-277(30°, 60°, 120°, 30/120) Fixtures	303010104
MDH-200-347-480-Driver (15°, T3)	Replacement Driver Kit for MDH-200-347-480(15°, T3) Fixtures	303010105
MDH-200-347-480-Driver (30°, 60°, 120°, 30/120)	Replacement Driver Kit for MDH-200-347-480(30°, 60°, 120°, 30/120) 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

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

LUMEN TABLE

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

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

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 peration.

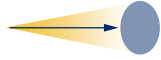
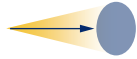
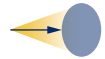
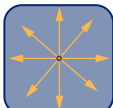
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
MDH-200	30,500	750	600
MDH-400	57,500	1000~1500	1000
MDH-600	87,500	1800	N.A
MDH-800	114,500	N.A	N.A

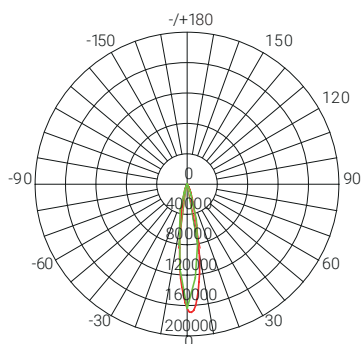
THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

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

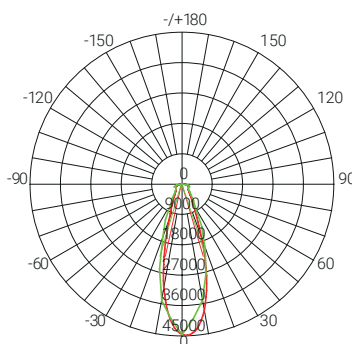
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

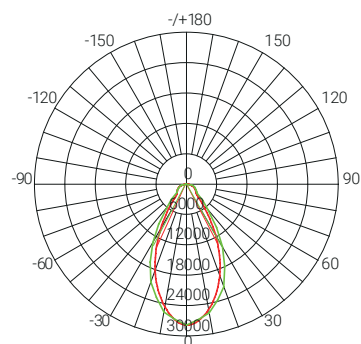
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric 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.	



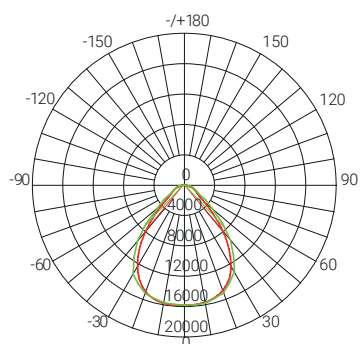
**15°
NEMA 1 - Very Narrow**



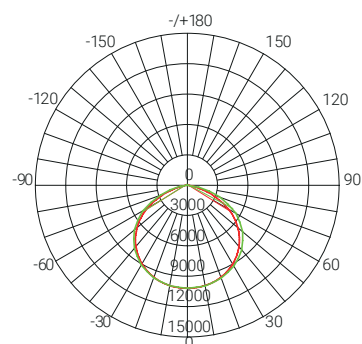
**30°
NEMA 3 - Medium Narrow**



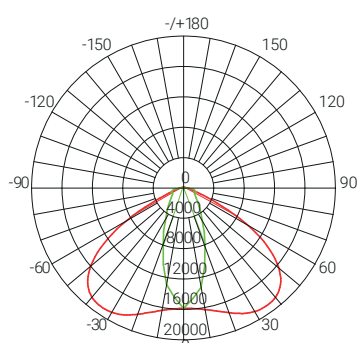
**60°
NEMA 3 - Medium Narrow**



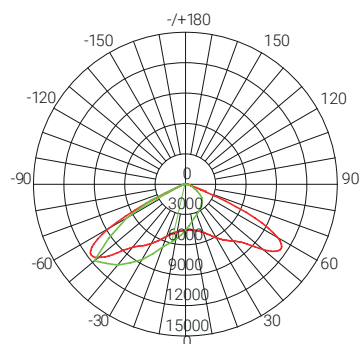
**90°
NEMA 5 - Medium Wide**



**120°
NEMA 6 - Wide**



30°x120°

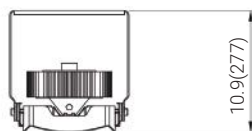
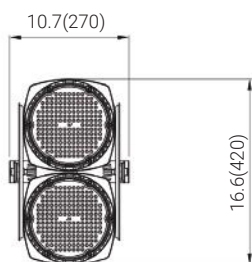


Type III

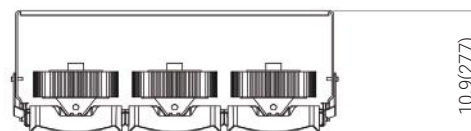
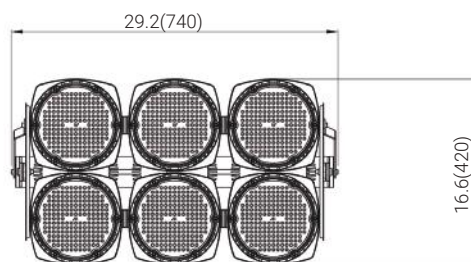
DIMENSIONS

unit: in(mm)

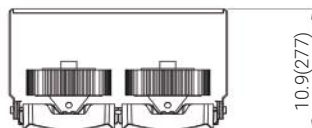
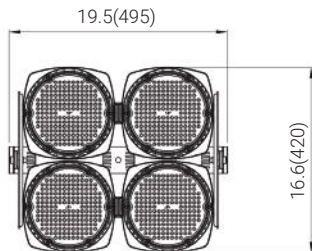
200W



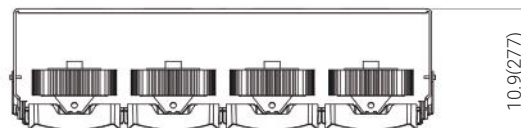
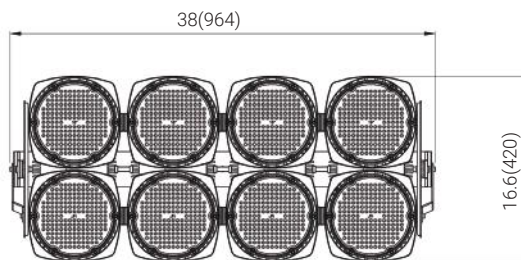
600W



400W



800W





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Disclaimer

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