FMR
LED

These multi-functional and feature-rich fixtures are capable of both meeting and exceeding the demands of the food processing industry, industrial and commercial environments and architectural applications.

CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
Zone 2	Groups IIC
CLASS II	
Division 2	Groups F, G
Zone 22	Groups IIIB
CLASS III	

Contact your ABB sales representative to verify classification

CERTIFICATIONS

Not all DL Series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

MARINE UL LISTED E477827

c UL us LISTED E477827

UL 844
UL 8750

FMR LED

Key features and benefits

Housing
- Copper-free high-pressure die-cast aluminum
- Lens and case are designed to withstand severe impact
- Gore® vented pressure equalization

Finish
- Polyurethane multi-layer powder coating with anti-graffiti properties suitable for interior and exterior surfaces
- Easy cleaning and very smooth to prevent particulate from accumulating
- Resistant to impact, humidity and high chlorine environments
- Superior surface bonding to prevent dripping

Power supplies
- Two independent power supplies for increased reliability
- Two input power ranges for flexibility
- Built-in temperature control adjusts power output in case of extreme ambient temperatures in order to maintain illumination while protecting the luminaire
- High performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation (LM-80)
- Built-in junction box with ¾" NPT entry for electrical termination within sealed cavity

Thermal management
- Surface area ensures LEDs are kept running at maximum efficiency in temperatures up to 55 °C
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperatures

CREE LEDs
- Proven reliability and high efficiency
- Superior CRI (90+)

Electrical ratings

Luminance	Rated wattage (watts)	Rated voltage (volts)	Frequency (Hz)	Rated current (amps)
FMR10	107	120–277	50/60	1.11–0.48
	129	347–480	50/60	0.43–0.31
FMR15	145	120–277	50/60	1.42–0.61
	145	347–480	50/60	0.47–0.34
FMR20	190	120–277	50/60	1.74–0.75
	187	347–480	50/60	0.59–0.42
FMR25	247	120–277	50/60	2.18–0.95
	248	347–480	50/60	0.74–0.53
FMR30	312	120–277	50/60	2.82–1.22
	310	347–480	50/60	0.96–0.70

Applications
High mast
Parking lots
Tunnels
Loading docks
Swimming pools
High bay
Food processing
Coolers and freezers
Inspection
Meat processing
Quality control areas
Packaging areas
Hangars
Storage facilities
Oil and gas processing
Agricultural
Marine/wet environments
Chemical/industrial facilities

Light engine
- Metal core printed circuit board
- Fault tolerant and fail-over design ensures reliability and resilience to damage

FMR LED

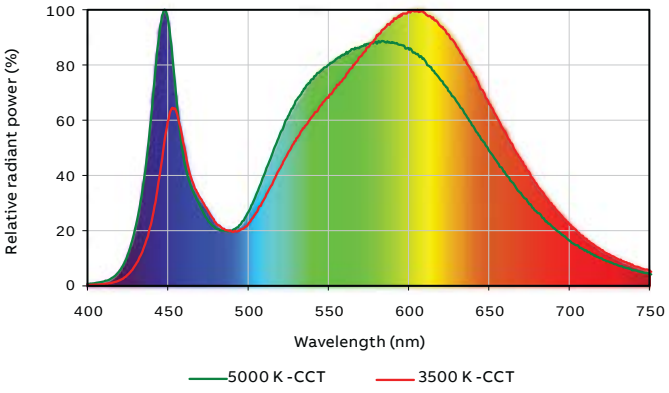
Key features and benefits

Temperature range chart

			Optical models		Flood models	All models
Luminance	Rated voltage (volts)	Ambient temp (°C)	Class I, Div 2 T-Codes	Ambient temp (°C)	Class I, Div 2 T-codes	Class II, Div 2 T-codes
FMR10	120–277	-40 to 55	T3C	-40 to 55	T4A	T5
	347–480	-40 to 54	T3C	-40 to 51	T4	T5
FMR15	120–277	-40 to 55	T3C	-40 to 55	T4A	T5
	347–480	-40 to 54	T3C	-40 to 51	T4	T5
FMR20	120–277	-40 to 55	T3C	-40 to 55	T4A	T5
	347–480	-40 to 54	T3C	-40 to 51	T4	T5
FMR25	120–277	-40 to 51	T3C	-40 to 55	T4A	T5
	347–480	-40 to 44	T3B	-40 to 50	T4A	T5
FMR30	120–277	-40 to 43	T3	-40 to 42	T4A	T5
	347–480	-40 to 43	T3	-40 to 40	T3	T5

Color temperature

Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K.

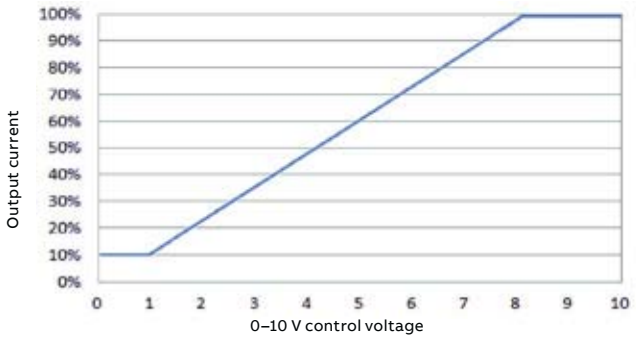


Light engine

- Metal core printed circuit board
- Fault-tolerant and fail-over design ensures reliability and resilience to damage

Dimming

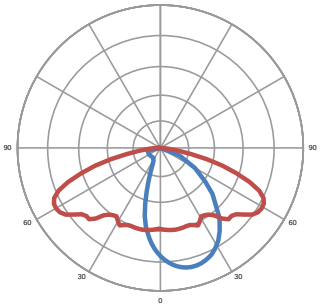
Driver will source a maximum of 200 µA for control needs. A controller must sink current from 0–10 V control leads. Dimming output from 10%–100%.



FMR LED

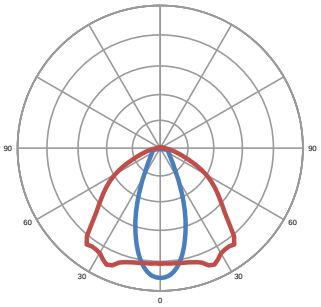
Key features and benefits

Modular optics



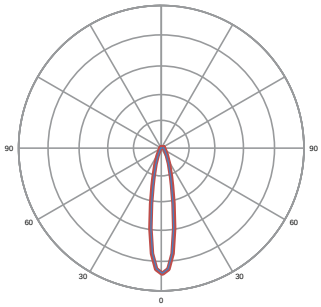
T2 - IESNA Type 2[1]

Model	Lumens	Lumens/ Watts
FMR10	12370	132
FMR15	16340	130
FMR20	20560	125
FMR25	26090	117
FMR30	31670	109



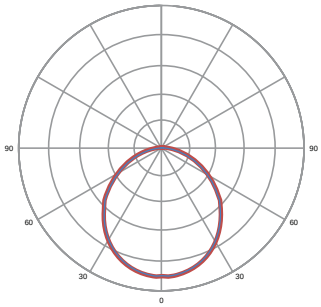
OC - Oval[1]

Model	Lumens	Lumens/ Watts
FMR10	12370	132
FMR15	16340	130
FMR20	20560	125
FMR25	26090	117
FMR30	31670	109



SC - Narrow 18°[1]

Model	Lumens	Lumens/ Watts
FMR10	12370	132
FMR15	16340	130
FMR20	20560	125
FMR25	26090	117
FMR30	31670	109



WC - Wide beam[2]

Model	Lumens	Lumens/ Watts
FMR10	12370	132
FMR15	16340	130
FMR20	20560	125
FMR25	26090	117
FMR30	31670	109

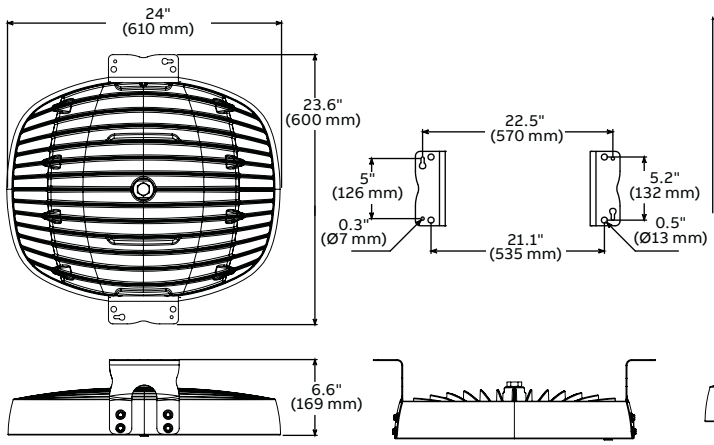
Standard offering above, 13 alternate optical profiles available upon request.
Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.
1. Denotes 'optical' model
2. Denotes 'flood' model

FMR LED

Mounting options

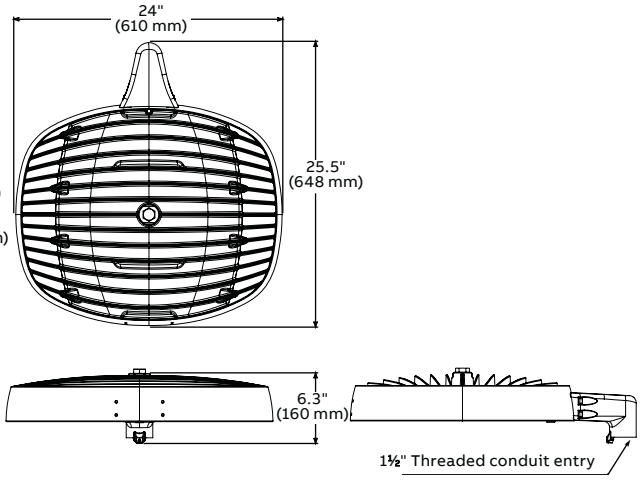
Surface/suspended mount (included standard)

16.8 kg | 37 lbs



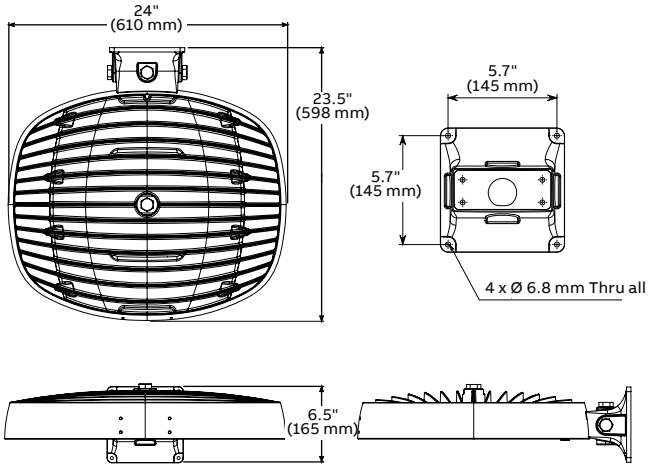
FMR-PM (optional accessory)

17.3 kg | 38 lbs



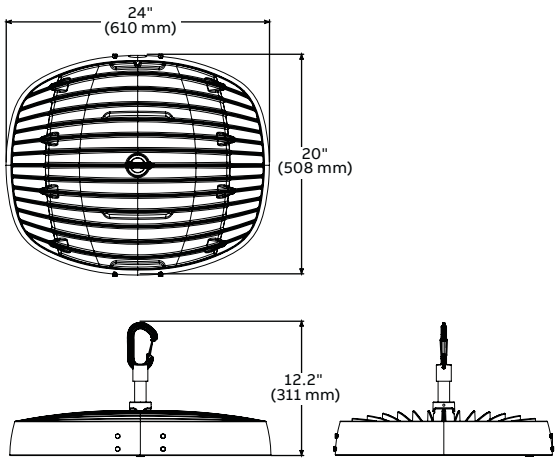
Wall mount FMR-WM (optional accessory)

17.7 kg | 39 lbs



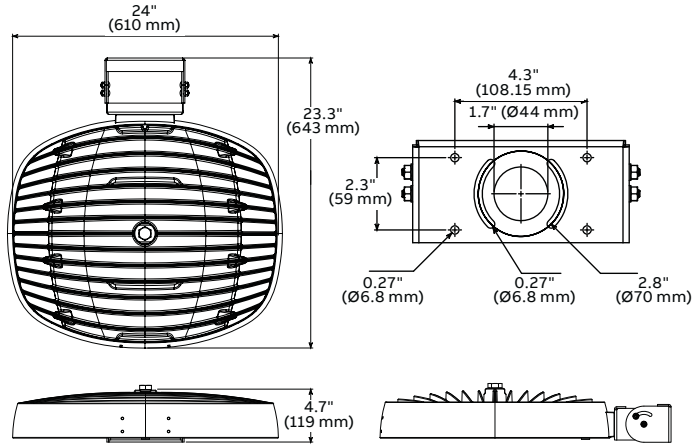
Hanging pendant FMR-HK (optional accessory)

16.4 kg | 36 lbs



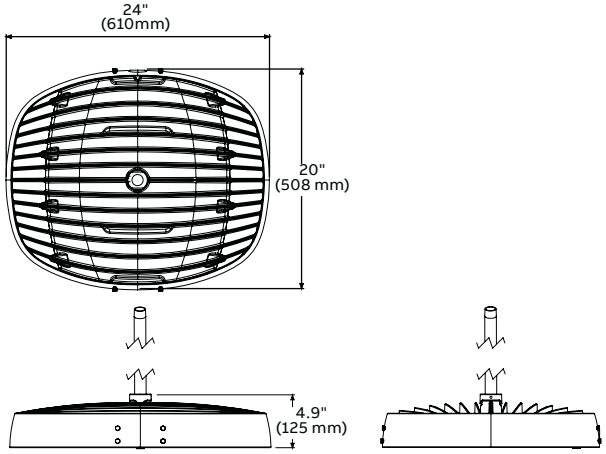
Yoke mount FMR-YM (optional accessory)

16.8 kg | 37 lbs



Conduit mount FMR-CM (optional accessory)

16.4 kg | 36 lbs



FMR LED

Numbering system

Lighting fixture						
FMR30	WC	W	35	AC	HL	U
1	**2**	**3**	**4**	**5**	**6**	**7**

01. Fixture

Part	Part number	Description
1 Model	**FMR10**	12370 Lumens
	FMR15	16490 Lumens
	FMR20	20730 Lumens
	FMR25	26610 Lumens
	FMR30	31670 Lumens
2 Optics*	**WC**	Wide beam (no optics) [6]
	T2	IESNA Type 2 [5]
	OC	Oval, 26° x 108° [5]
	SC	Spot 18° [5]
3 Finish	**W**	White
4 Color	**35**	Warm white (3500 K) — CRI 80
	35H	Warm white (3500 K) — CRI 90
	50	Cool white (5000 K) — CRI 70
	50H	Cool white (5000 K) — CRI 90
5 Power	**AC**	120 to 277 V AC
	HV	347 to 480 V AC
6 Location	**HL**	Hazardous location
7 Market		Canadian market
	U	US market

02. Mounting options (order separately)

Part	Part number	Description
Mounting type	**FMR-WM**	Wall mount [4]
	FMR-HK	Hanging pendant
	FMR-PM	Pole mount [4]
	FMR-YM	Yoke mount [3,4]
	FMR-YK	High vibration yoke [2,3,4]
Color	**WT**	White finish

Notes
1. Minimum order quantities, additional costs and lead times may incur.
2. Custom finishes and high vibration yoke mount are not available for NSF certified units.
3. Yoke mount only available in stainless steel finish.
4. IDA Fixture Seal of Approval only applies to fixtures with a CCT of 3000 K or less, and have fixed mounts aiming the fixture perpendicular to the ground.
5. Denotes 'optical' model
6. Denotes 'flood' model

* All optics are clear (not frosted).

SMR
LED

The unique combination of flexibility and robust design allows the implementation of this light fixture in various new or existing facilities. The SMR not only exceeds the expectations of an HID replacement, but establishes a new benchmark in versatility for industrial LED lighting.

CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D, T4
Zone 2	Group IIC
CLASS II	
Division 2	Groups F, G
Zone 22	
CLASS III	T4A

Contact your ABB sales representative to verify classification

CERTIFICATIONS

Not all DL Series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

c UL us LISTED
E477827
E477829

UL 1598
UL 844

SMR LED

Key features and benefits

Features
- Extremely robust
- Thermally managed for longevity
- Easy field angle adjustment
- -40 to 55 °C operating range
- Lifespan up to 100,000 hours
- Sealed to IP66
- Extreme vibration resistance

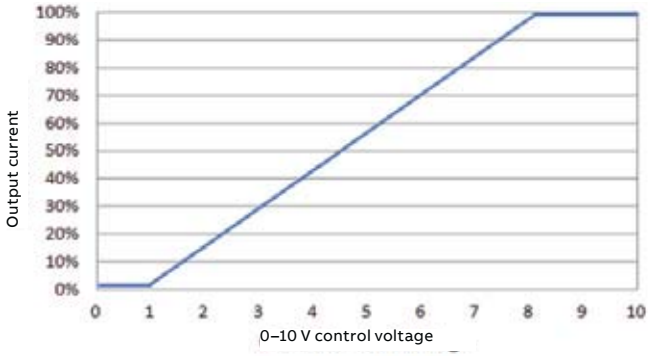
Junction box
- Direct heat transfer from power supply to external case for optimal performance
- Plenty of wiring space for optional accessories
- ¾" NPT entry
- IP 66/67 rated, suitable for wet locations

Thermal management
- Ample surface area of head ensures LEDs are kept running at maximum efficiency, even at 55 °C temperature
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperature
- Physical separation of electronics for increased system reliability
- Perimeter band adds ruggedness and channels heat through fins with laminar flow principles

Light engine
- Metal core printed circuit board
- Modular optics

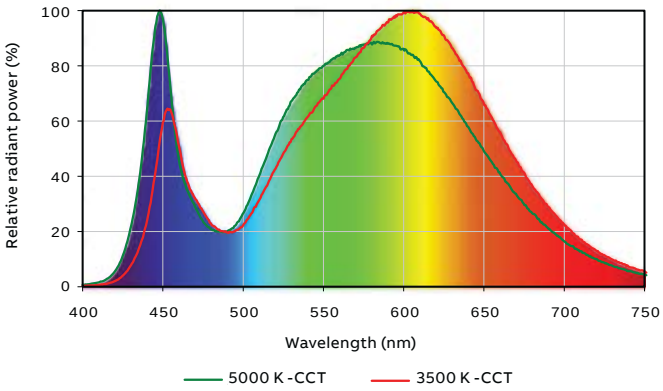
Output
3050 to 6265 lumens

Dimming
Driver will source a maximum of 200 µA for control needs. A controller must sink current from 0–10 V control leads. Dimming output from 1–100%.



Applications
Hazardous locations
Indoor lighting
Tunnel lighting
Industrial facilities
Refinery and petrochemical facilities

Color temperature
Available standard 5000 K, with additional color temperatures available from 2700 to 6500 K.



Nichia LEDs
- Proven reliability
- High efficiency
- Several CCT options for added design flexibility

Housing
- Copper-free high pressure die-cast aluminum case
- Triple-layer coating suitable for marine applications
- Physical separation between power supply and LEDs
- Lens and case are designed to withstand severe impact

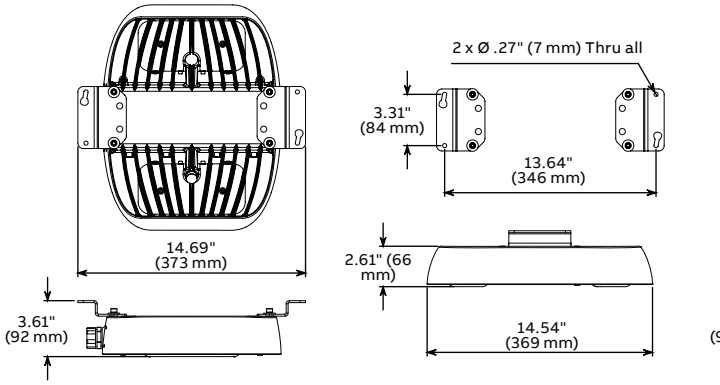
Power supplies
- Two input ranges for ultimate flexibility
- Utilizes high performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation
- Built-in junction box with ¾" NPT entry

SMR LED

Mounting options

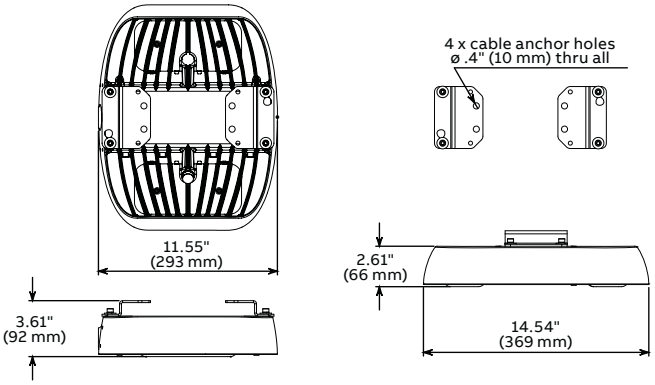
Surface mount (included standard)

5.3 kg | 11.7 lbs



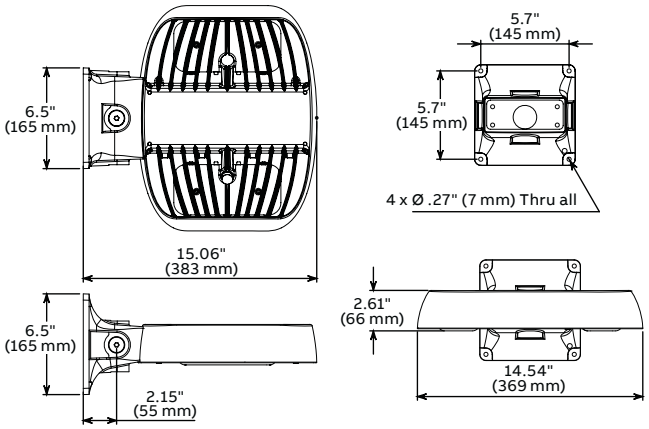
Suspended mount (included standard)

5.3 kg | 11.7 lbs



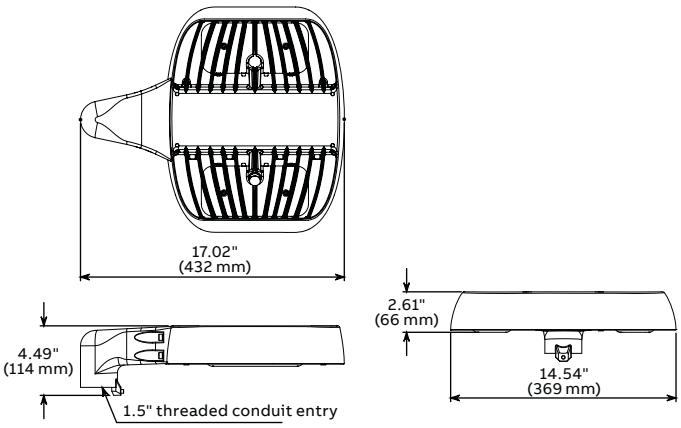
Wall pack mount (optional accessory)

6.8 kg | 15 lbs



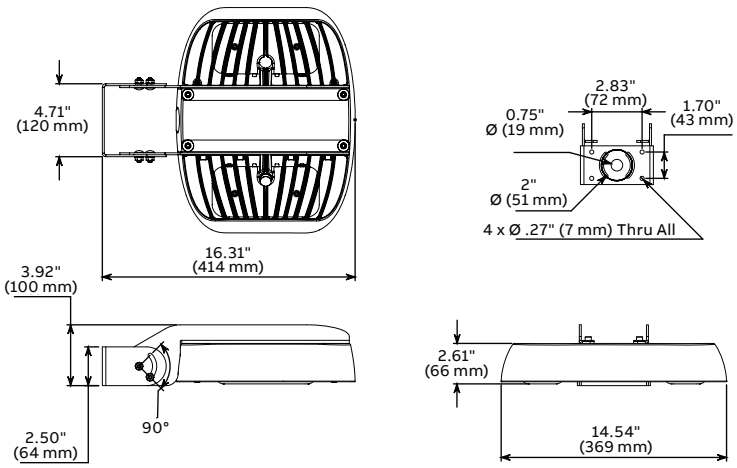
Pole mount SMR-PM (optional accessory)

5.6 kg | 12.4 lbs



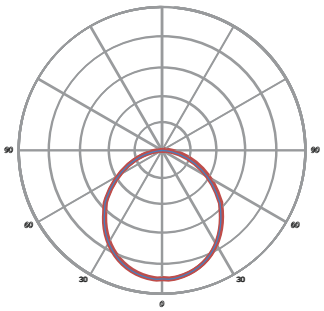
Yoke mount SMR-YM (optional accessory)

6.3 kg | 13.9 lbs



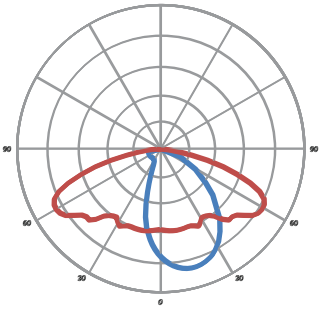
SMR LED[1]

Optic options



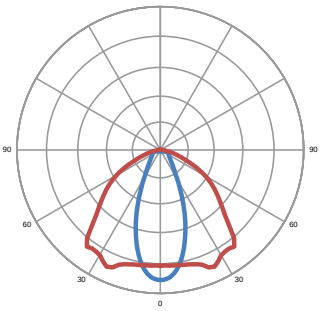
WF - Wide beam (no optic)

Model	Lumen output (CW)
SMR3	3050
SMR6	5650



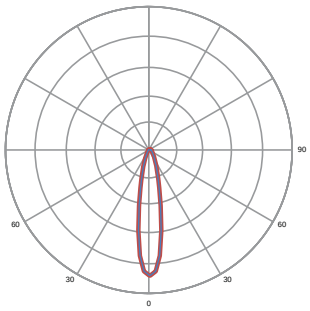
T2F - IESNA Type 2

Model	Lumen output (CW)
SMR3	2980
SMR6	5520



OF - Oval 26˚ x 108˚

Model	Lumen output (CW)
SMR3	3290
SMR6	6090



SF - Spot 18˚

Model	Lumen output (CW)
SMR3	3380
SMR6	6265

Standard offering above, 13 alternate optical profiles available upon request.

Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.

Numbering system

Custom **optics** available

Custom **finish** available

Lighting fixture						
SMR6	WF	GY	CW	AC	HL	U
1	2	3	4	5	6	7

01. Lighting fixture

Part	Part number	Description
1 Model	**SMR3**	3380 Lumens
	SMR6	6265 Lumens
2 Optics*	**2F**	IESNA Type 2
	OF	Oval 26° x 108°
	SF	Spot 15°
	WF	Wide (no optic)
3 Finish	**GY**	Gray
4 Color	**CW**	Cool white (5000 K)
5 Power	**AC**	120 to 277 V AC
	HV	347 V AC
6 Location	**HL**	Hazardous location
7 Market		Canadian market
	U	US market

02. Mounting options (order separately)

Part	Part number	Description
Mounting type	**SMR-WM**	Wall pack mount [3]
	SMR-PM	Pole mount [3]
	SMR-YM	Yoke mount [2,3]
Color	**GY**	Gray only

Notes
1. Minimum order quantities, additional costs and lead times may incur.
2. Yoke mount only available in stainless steel finish.
3. IDA Fixture Seal of Approval only applies to fixtures with a CCT of 3000K or less, and have fixed mounts aiming the fixture perpendicular to the ground.

* All optics are “frosted” style.