

MASI Field-Adjustable Canopy Light



MASI16L & MAS116



PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____

MASI20



KEY FEATURES

- Canopy light in two sizes and selectable wattages
 MAS116L : 16" X 16"- 100/80/60W (100W default)
 MAS116 : 16" X 16"- 150/120/100W (150W default)
 MAS20 : 20" X 20"- 200/180/150W (200W default)
- Field-adjustable CCT: 3000/4000/5000K (4000K default)
- 120-277V driver. 480V option available.
- UL listed for wet locations
- 5-year, no-compromise warranty

Field-adjustable canopy light



PERFORMANCE

MASI16L	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	100W			80W			60W		
INPUT WATTS	103.8W	100.3W	103.5W	82.9W	80.5W	82.7W	61.7W	60.2W	61.6W
LUMENS	15,019	16,129	15,689	12,412	13,218	12,961	9,541	10,059	9,980
EFFICACY	144.7	160.8	151.6	149.7	164.2	156.7	154.6	167.1	162
CRI	81	83	81	81	83	82	81	83	82
VOLTAGE RATING	120-277V			120-277V			120-277V		

MASI16L	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	100W			80W			60W		
INPUT WATTS	100.3W	97.1W	100.1W	83.5W	81.1W	83.3W	63.8W	62.7W	63.6W
LUMENS	14,851	15,965	15,524	12,630	13,460	13,215	9,886	10,502	10,317
EFFICACY	148.1	164.4	155.1	151.3	166	158.6	155	167.5	162.2
CRI	81	83	81	81	83	81	81	83	81
VOLTAGE RATING	480V			480V			480V		

MASI16	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	150W			120W			100W		
INPUT WATTS	151.2W	145.9W	150.9W	121.5W	117.8W	121.2W	101W	98.3W	100.8W
LUMENS	21,483	23,442	22,893	18,016	19,389	19,140	15,468	16,462	16,369
EFFICACY	142.1	160.7	151.7	148.3	164.6	157.9	153.1	167.5	162.4
CRI	81	83	81	81	83	81	81	83	81
VOLTAGE RATING	120-277V			120-277V			120-277V		

MASI Field-Adjustable Canopy Light



PERFORMANCE

MASI16	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	150W			120W			100W		
INPUT WATTS	147.6W	142.4W	147.4W	120.4W	117.3W	120.2W	105.7W	103.3W	105.6W
LUMENS	21,714	23,635	23,112	18,231	19,729	19,408	16,284	17,520	17,303
EFFICACY	147.1	166	156.8	151.4	168.2	161.5	154.1	169.6	163.9
CRI	81	83	81	81	83	81	81	83	82
VOLTAGE RATING	480V			480V			480V		

MASI20	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	200W			180W			150W		
INPUT WATTS	202.6W	195.6W	203.4W	182.9W	177.1W	183.7W	153.2W	148.8W	153.6W
LUMENS	29,211	31,640	30,728	26,891	28,995	28,376	23,260	24,821	24,419
EFFICACY	144.2	161.8	151.1	147	163.7	154.5	151.8	166.8	159
CRI	81	83	82	81	83	82	81	83	82
VOLTAGE RATING	120-277V			120-277V			120-277V		

MASI20	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
WATTAGE	200W			180W			150W		
INPUT WATTS	201.6W	194.1W	201.6W	179.8W	173.6W	179.7W	149.9W	145.2W	149.7W
LUMENS	30,082	32,522	31,625	27,347	29,336	28,753	23,341	24,850	24,543
EFFICACY	149.2	167.6	156.9	152.1	169	160	155.7	171.1	163.9
CRI	81	83	83	81	84	83	81	84	83
VOLTAGE RATING	480V			480V			480V		

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

UL listed for wet locations

DLC Listed

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

MODEL#	DLC ID	MODEL#	DLC ID
MASI16L	S-QG38F6	MASI16L/480	S-5P9KYJ
MASI16	S-17M4YD	MASI16/480	S-6X9LQ5
MASI20	S-P320C2	MASI20/480	S-S2GCVV

LED CHARACTERISTICS

LEDs

Long-life, high-efficacy, surface-mount LEDs

Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standards for Specifications for the Chromaticity of Solid State Lighting (SLL) Products, ANSI C78.377-2017.

Color Temperature

Adjustable CCT: 3000/4000/5000K (4000K Default)

CONSTRUCTION

Cold Weather setting

Minimum starting temperature is -40°F (-40°C)

Maximum Ambient Temperature

Suitable for use in up to 104°F (40°C)

Housing

Die-cast aluminum housing

Mounting

Surface mount

Lens

Tempered glass

Gasketing Material

High-temperature silicone

IP Rating

Ingress protection rating of IP65 for dust and water. Applies to the housing only (without driver).

BUG Rating

B3-U0-G3

Green Technology

Mercury and UV free. RoHS-compliant components.

Finish

Formulated for high durability and long lasting color

MASI Field-Adjustable Canopy Light



TECHNICAL SPECIFICATIONS

ELECTRICAL

Drivers

Constant current, Class 1, 120-277V, 50/60 Hz

MASI16L:

100W: 120V: 1.00A, 208V: 0.58A, 240V: 0.50A, 277V: 0.43A
 80W: 120V: 0.70A, 208V: 0.40A, 240V: 0.35A, 277V: 0.32A
 60W: 120V: 0.516A, 208V: 0.31A, 240V: 0.28A, 277V: 0.25A

MASI16:

150W: 120V: 1.50A, 208V: 0.87A, 240V: 0.75A, 277V: 0.65A
 120W: 120V: 1.01A, 208V: 0.58A, 240V: 0.51A, 277V: 0.45A
 100W: 120V: 0.84A, 208V: 0.48A, 240V: 0.43A, 277V: 0.38A

MASI20:

200W: 120V: 2.00A, 208V: 1.15A, 240V: 1.00A, 277V: 0.87A
 180W: 120V: 1.55A, 208V: 0.89A, 240V: 0.78A, 277V: 0.68A
 160W: 120V: 1.29A, 208V: 0.74A, 240V: 0.65A, 277V: 0.58A

Constant current, 480V, 50/60 Hz

MASI16L:

100W: 480V: 0.23A
 80W: 480V: 0.19A
 60W: 480V: 0.15A

MASI16:

150W: 480V: 0.34A
 120W: 480V: 0.28A
 100W: 480V: 0.25A

MASI20:

200W: 480V: 0.44A
 180W: 480V: 0.40A
 160W: 480V: 0.35A

Dimming Driver

Driver includes dimming control wiring. 0-10V continuous dimming.

Surge Protection

L-N: 6kV; L/N-PE: 6kV

ELECTRICAL

THD

MASI16L: 6.1% at 120V, 13.6% at 277V, 12.6% at 480V

MASI16: 4.4% at 120V, 7.1% at 277V, 5.6% at 480V

MASI20: 5.0% at 120V, 9.5% at 277V, 4.6% at 480V

Power Factor

MASI16L: 99.8% at 120V, 93.3% at 277V, 94.6% at 480V

MASI16: 99.9% at 120V, 95.8% at 277V, 94.8% at 480V

MASI20: 96.0% at 480V, 96.0% at 277V, 95.5% at 480V

FIELD ADJUSTABLE

Adjustable CCT:

3000/4000/5000K (factory default 4000K)

Selectable Wattages:

MASI16L: 16" X 16"- 100/80/60W (100W default)

MASI16: 16" X 16"- 150/120/100W (150W default)

MASI20: 20" X 20"- 200/180/150W (200W default)

OTHER

Warranty

The RAB 5-year, no-compromise warranty covers light output, color stability, driver performance, paint finish and labor. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

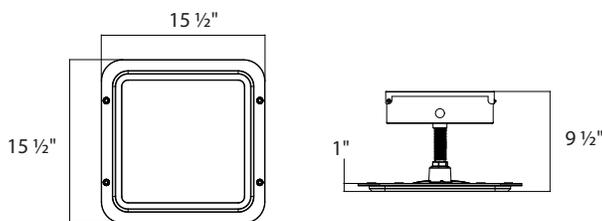
DIMENSIONS

MASI16L / MASI16

Weights:

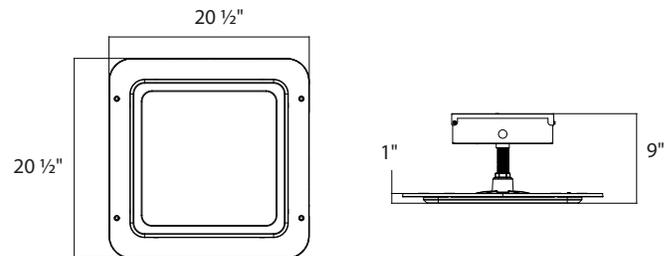
MASI16L: 15.7 lbs

MASI16: 16.0 lbs



MASI20

Weight: 20.9 lbs



ORDERING MATRIX

MASI

Family	Size/Wattage	Color Temperature	Finish	Driver
MASI	16L 16 20	BLANK	BLANK White	BLANK
	16" x 16", (100/80/60W) 16" x 16", (150/120/100W) 20" x 20", (200/180/150W)	3000/4000/5000K CCT Adjustable		120-277V, 0-10V Dimming 480V, 0-10V Dimming