DESCRIPTION

The RSA-MRZ family of fixtures is a multi-head, recessed group of products with an integral LED dedicated head. Each head offers four different light levels and lumen packages, with 25°, 40°, and 55° beam spreads. Four color temperatures, 2700K, 3000K, 3500K, 4000K in both 80+ and 97+ CRI are also part of the standard offering. Each head can tilt 45° out of the fixture, and rotate 365° around. The RSA-MRZ family now includes intelligent wireless controls (Enlighted) or simplified wireless controls (WaveLinx), options. Accessories include hex louver, linear spread lens, or soft focus lens. A snoot is also available for high angle glare cutoff.

SPECIFICATION FEATURES

Construction

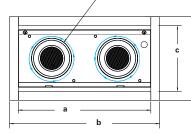
Housing is 6063-T5 extruded aluminum, 20 gauge cold rolled steel. Each head construction is die cast metal. Flanged trim and mud-in trim available. New construction housings equivalent to remodel. Housing constructed by fasteners. Weights of full fixture assembly: Flange Trim Weight: 11 lbs

Mud-In Trim Weight: 11.5 lbs Flange Trim with Sensor Weight: 12 lbs

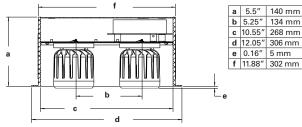
Electrical

Standard drivers feature electronic universal voltage (120-277V/ 50-60 Hz), greater than 0.9 power factor, less than

Top View - Flanged Trim



Side View - Flanged Trim



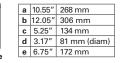
20% harmonic distortion, and features ambient temperature of 25°C (77°F). 0-10V dimming standard.

LED Optics

Each fixture head features precision molded TIR optics made of virgin optical grade acrylic with 95% efficiency and is field changeable. Each lens is injection molded for precision optics with the choice of 25°, 40°, 55° beam spreads. The LEDs are also offered in 80+ CRI and 97+ CRI in 2700K, 3000K, 3500K, and 4000K CCT

Mounting

Housing includes holes for tie back to structure. Knockouts are provided for



b 5.25" 134 mm c 10.55" 268 mm d 12.05" 306 mm e 0.16" 5 mm f 11.88" 302 mm

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Project	
Comments	Date
Prepared by	

threaded rods (by others) to secure fixture to structure. Provide flexible whip or conduit to fixture, and attach to fixture via knock outs on junction box side.

Finish

Fixture housing is coated using electrostatically charged polyester powder coat paint for superior protection against fade and wear. Paint Colors: B = (All Black) BlackHousing/ BlackTrim, W = (All White) White Housing/White Trim. BW = Black Housing/White Trim. Consult factory for other color options.

Compliance

Components are UL recognized and luminaires are cULus listed for 25°C ambient environments, IC rated, Chicago plenum rated, and NYC compliant. Dry listed.

Environment Suited for indoor only, dry listing.

25° C ambient temperature.

Control

Standard offering is 0-10V dimming. Energy saving integral sensor options available. Enlighted sensors are available for building management applications. WaveLinx sensors are available for simplified controls solutions. Addressable Lighting Interface (DALI) driver option can be used with Fifth Light Technology.

Life and Warranty

Standard five-year limited warranty on all parts.



RSA-MRZ

LED **Multi-Head Fixture**

Recessed LED Multi-head Configuration 2-Head

CERTIFICATION DATA UL/cUL Dry Location Listed LM-79, LM-80, TM-30 , TM-21

ENERGY & CONNECTED SOLUTIONS WaveLinx Enlighted

ORDERING INFORMATION

Sample Number: MRZ-2-REC-MUD-2-L40-80-WFL-UNV-W-DCD-HEX

Series	Size	Mounting	Trim Type ⁽¹⁾	Light Level/ Head ⁽⁶⁾ (@ 4000 K) Color Temp./ Wattage CRI		Beam Angle	Voltage			
MRZ ⁼ Multi-Head Integral LED	2 = 2 Integral LED Head	REC = Recessed	FLN = Flanged MUD = Mud-In	1 = 650 lumens @5W @80CRI, 500 lumens @5W @ 97CRI L27 = 2700K 80+		80+ 97+	NFL = 25° Narrow Flood FL = 40° Flood WFL = 55° Wide Flood	UNV = 120- 277V		
Finish ⁽²⁾			Drivers		Integral Control (Optional)		Options (Optional)		Accessori (Optional Opt	
 W = White Housing White Trim B = Black Housing, Black Trim BW = Black Housing, White Trim 	(1 ELV = E V HCD = 0	tandard 0-10V 0%-100%) lectronic Low oltage Dimming -10V (1%-100%) -10V (0.1%-100%)	LUH = Lu Ec	Fifth Light DALI (1-100%) utron H-Series cosystem -100% Fade to Black)	(Optional) (Optional) WAA = WaveLinx Wireless REM = Remote Emergency Battery Integral Sensor CP = Chicago Plenum WAB = WaveLinx Lite Wireless HEX = Hex Louver Integral Sensor LSL = Linear Spread Lens LWIPD1 = Enlighted Wireless Integral Sensor SFL = Soft Focus Lens BF = Butterfly Brackets		ns	K1 = (1) 25°, (1) 40°, K2 = (2) 25°, (2) 40°, (



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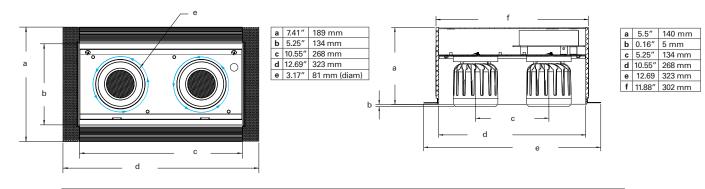
See page 4 for Technical Notes.

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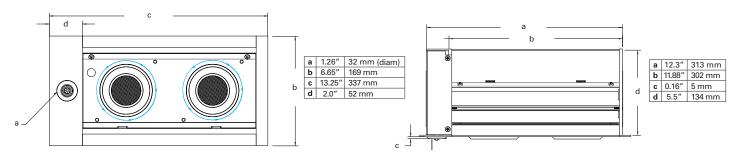
Specifications and dimensions subject to change without notice. See additional information on the following pages.

ADDITIONAL OPTIONS AND VIEWS

Mud-in Trim (showing 365° rotation):



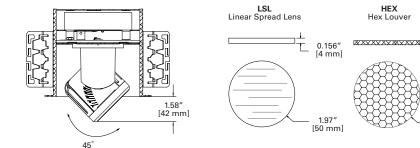
Flange Trim with LumaWatt Pro Sensor LWIPD1 Sensor (WaveLinx sensor, SWPD1, also available)

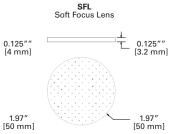


Rotation of 45° per fixture head, and 365°, in plan view.

Accessories - Linear Spread lens, Hex Louver, Soft Focus Lens, Snoot. (Note: Only one lens can be used at a time. And, only one lens can be used with snoot)

E





SNT Snoot - (Shown with Hex Louver)



LUMEN MAINTENANCE

AMBIENT TEMPERATURE	TM-21 LUMEN MAINTENANCE (60,000 Hours)	THEORETICAL L70 (Hours)
25°C	> 86%	> 90,000

CONNECTED CONTROL

Enlighted Intelligent (LWIPD1) and WaveLinx (WAA, WAB) Wireless Sensor Ordering Information:

• WAA, WAB and LW sensors must be used with 0-10V drivers (STD, HCD, DCD)

• The WaveLinx integrated sensors (WAA, WAB) offer passive infrared (PIR) occupancy and a photocell for closed loop daylighting.

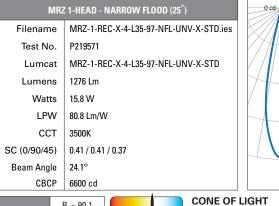
• See RSA MRZ brochure for systems information and application.

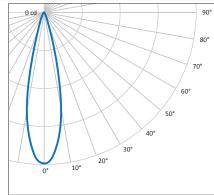


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PHOTOMETRY

SERIES - RSA-MRZ-2

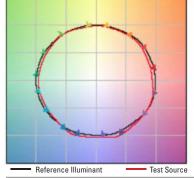




ZONAL L		LUN		
Zone	Lumens	% Fixture	4	Angle
0-30°	1190	93.2		45
0-40°	1248	97.8		55
0-60°	1273	99.8		
0-90°	1276	100		65
90-180°	0	0		75
0-180°	1276	100		85
			_	

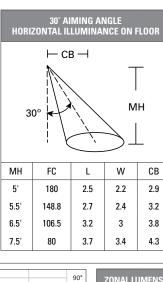
Y	LUMINANCE DATA (CD/M ²)							
re	Angle	0°	45°	90°				
2	45	18351	18351	18351				
	55	4989	4989	4989				
5	65	1751	1751	1751				
	75	2859	2859	2859				
	85	0	0	0				

TM-30-15	R _f = 90.1		
1101-30-13	R _g = 97.2	2700K 3000K	3500K 4000K
CRI/CIE	R _a = 97.3		
UNI/UIE	R _g = 94.4		
COLOR VE	CTOR GRAP	HIC	25°



0° AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR						
0° MH						
МН	FC	L	W			
5'	264	2	2			
5.5'	218.2	2.2	2.2			
6.5'	156.2	2.6	2.6			
7.5'	117.3	3	3			

0 cd



80°

60°

50°

40°

5.5'

6.5'

7.5'

62.6

44.8

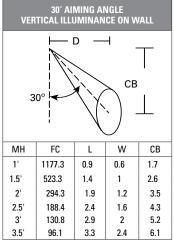
33.7

30°

20°

10°

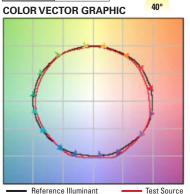
0



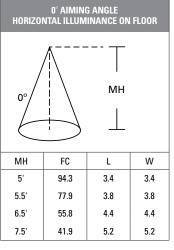
MRZ 1-HEAD - FLOOD (40°)						
Filenan	ne	MRZ-1-REC-X-4-L35-97-FL-UNV-X-STD.ies				
Test N	0.	P219726				
Lumc	at	MRZ-1-REC-X-4-L35-97-FL-UNV-X-STD				
Lumer	ns	1283 Lm				
Wat	ts	15.8 W				
LP	W	81.2 Lm/W				
CC	СТ	3500K				
SC (0/90/4	5)	0.7 / 0.7 / 0.66				
Beam Ang	le	42.3°				
CBC	P	2347 cd				
		R _f = 90.1 CONE				
TM-30-15	F	R _g = 97.2 2700К 3000К 3500К 4000К				

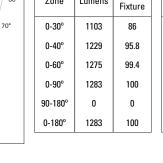
CRI/CIE $R_{g} = 94.4$ COLOR VECTOR GRAPHIC

R_a = 97.3



OF LIGHT



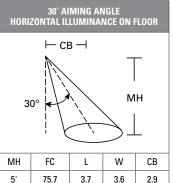


ZONAL LUMENS SUMM

Zone

Lumens

MARY	LUN	IINANCE	DATA (CD	/ M ²)
% ixture	Angle	0°	45°	90°
86	45	28538	28538	28538
95.8	55	11354	11354	11354
99.4 100	65	5137	5137	5137
0	75	2859	2859	2859
100	85	0	0	0



4

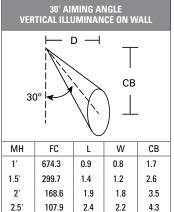
4.8

5.6

3.8

4.6

5.4



2.9

3.4

2.6

3



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Specifications and dimensions subject to change without notice. See additional information on the following pages.

3.2

3.8

4.3

3'

3.5'

74.9

55

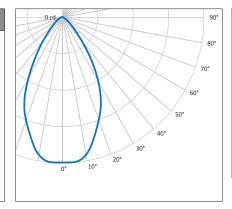
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5.2

6.1

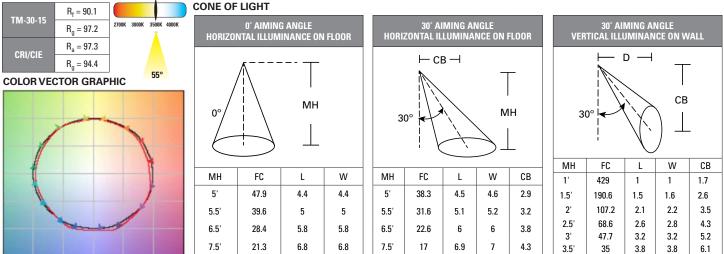
SERIES - RSA-MRZ-2

MRZ 1-HEAD - WIDE FLOOD (55°)					
Filename	MRZ-1-REC-X-4-L35-97-WFL-UNV-X-STD.ies				
Test No.	P219850				
Lumcat	MRZ-1-REC-X-4-L35-97-WFL-UNV-X-STD				
Lumens	1194 Lm				
Watts	15.8 W				
LPW	75.6 Lm/W				
ССТ	3500K				
SC (0/90/45)	0.91 / 0.91 / 0.91				
Beam Angle	60.7°				
CBCP	1198 cd				



ZONAL LUMENS SUMMARY					
Zone	Lumens	% Fixture			
0-30°	755	63.2			
0-40°	1016	85.1			
0-60°	1180	98.8			
0-90°	1194	100			
90-180°	0	0			
0-180°	1194	100			

ľ	LUMINANCE DATA (CD/M ²)								
е	Angle	0°	45°	90°					
	45	105010	105010	105010					
	55	40256	40256	40256					
	65	11908	11908	11908					
	75	5528	5528	5528					
	85	0	0	0					



Reference Illuminant
 Test Source

MULTIPLIER TABLE												
CRI		8	0+		97+							
CCT	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K				
MULTIPLIER	1.226	1.246	1.314	1.332	0.875	0.957	1.000	1.039				

TECHNICAL NOTES

1. Sensor only available for FlangeTrim.

2. W = (White) White Housing, White Trim. B = (Black) Black Housing, Black Trim. BW = Black Housing, White Trim. Consult factory for custom colors.

 When SFL, LSL, HEX, or SNT are selected, all fixture heads receive this option. Only one shielding media can be used at a time. However, the SNT (snoot) option can take one hex louver, linear spread, or soft focus lens media.

4. K1 is a kit that contains one 25°, one 40°, and one 55° lens in one box for field changeable optic distributions. K2 is a kit that contains two 25°, two 40°, and two 55° lenses in one box for field changeable optic distributions. K3 is a kit that contains three 25°, three 40°, and three 55° lenses in one box for field changeable optic distributions. K4 is a kit that contains four 25°, four 40°, and four 55° lenses in one box for field changeable optic distributions. K4 is a kit that contains four 25°, four 40°, and four 55° lenses in one box for field changeable optic distributions.

5. See CONNECTED CONTROL for detailed information and full specification.

6. 7W Surelite battery. Each fixture head will dim to 50% of output for egress mode.

7. Integral sensors are only compatible with 0-10V dimming drivers. They must be used with their respective wireless control systems.

8. Refer to "IES Files" section for all options of color temperatures, CRIs, optical distributions, and shielding media.

9. 347 V not available

10. Driver Table availability for 2-Head:

DRIVER AVAILABILITY TABLE - 2 HEAD												
LIGHT LEVEL	STD 0-10V (10-100%	ELV Electronic Low Voltage	HCD (1-100%)	DCD (0.1-100%)	5LT Fifth Light Dali (5-100%)	5LTHD Fifth Light Dali (1-100%)	LUH Lutron-EcoSys (1-100%)					
1	YES	YES	NO	YES	NO	YES	YES					
2	YES	YES	YES	YES	NO	YES	YES					
3	YES	YES	YES	YES	NO	YES	YES					
4	YES	YES	YES	YES	NO	YES	YES					



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