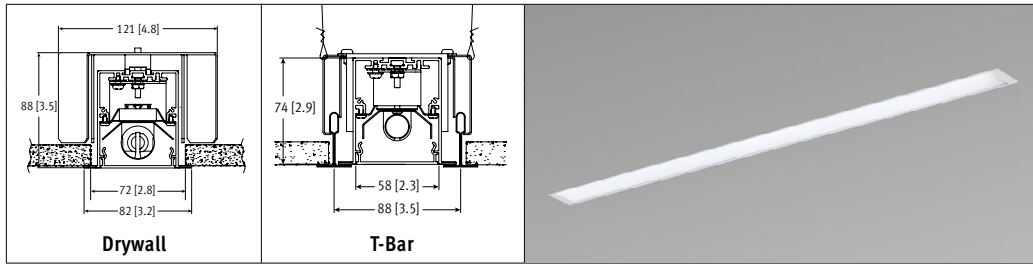


# Rail RM2D

## Fluorescent . Recessed



MetaICE



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:

## ORDERING LOGIC

RM2D			Optics								
Series	# of lamps	Source	Length	Up	Down	Finish	Ballast	Circuitry	Mounting	Voltage	Controls
<b># of Lamps</b>	<b>Length</b>	<b>Optics Up</b>	<b>Finish</b>	<b>Circuitry</b>		<b>Voltage</b>					
1 = 1 Lamp	4 = 4 ft	_ = None (leave space empty)	SA = Satin Aluminum	1 = 1 Circuit		1 = 120 V					
1S = 1 Staggered * (w/ Metalce only)	8 = 8 ft	<b>Optics Down</b>		W = White		AS = Alternate Switching		2 = 277 V			
* T5/T5HO only	12 = 12 ft	SP = Specular Parabolic Louver (not available with T8)	C = Custom Finish Specify RAL#:	EM = Emergency/Night Light		3 = 347 V (Consult Factory)					
<b>Source</b>	R = Continuous Rows Consult factory	SSP = Semi Specular Parabolic Louver (not available with T8)	<b>Ballast</b>		<b>Mounting</b>		<b>Controls</b>				
T8		M = Meta Ice	E = Electronic Instant Start (T8)		D = Recessed Drywall Flanged		= None (leave space empty)				
T5		A = Asymmetric Reflector (not available with T8)	R = Programmed Rapid Start		T = Recessed T-Bar Flanged		D = Daylight Sensor				
T5HO		MA = Meta Ice with Asymmetric Reflector (not available with T8)	D1 = 0-10V Dimming				O = Occupancy Sensor				
			D2 = DALI				DO = Daylight/Occupancy Sensor				

## SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

**Housing:** Rigid extruded aluminum body, 2.3mm [0.09"] nominal wall thickness. 63mm [2.5"] wide x 74mm [2.9"] high. Steel formed end caps.

**Optics:** Specular and semi-specular parabolic louvre (not available with T8

lamps); High-transmittance snap-in Metalce lens; Asymmetrical reflector open bottom (not available with T8 lamps).

**Finish:** Satin aluminum and white are standard. For custom finish, contact factory.  
**Weight:** 0.95 kg/300mm [2.1 lb/ft ]

**Mounting:** Mounting brackets/clips provided. Recessed T-Bar fits 15/16" T-Bar.

**Electrical:** Factory prewired with twist and lock sockets.

**Ballast:** Instant Start, Programmed Rapid Start, 0-10V Dimming, DALI

**Controls:** Refer to Ordering Logic chart above.

**Approvals:** Certified to NRTL and IES testing standards. This product is cULus listed.

**Environment:** Suitable for dry or damp locations.

## WARRANTY

Metalumen will warrant a one year parts and labour warranty. Warranty is valid if luminaire is installed and used according to specification. The Ballast will carry a standard 5 year warranty by the manufacturer. If defective, Metalumen will send replacement ballasts or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

APPROVALS Signature \_\_\_\_\_

Date \_\_\_\_\_

FILE NAME: Rail\_RM2D\_FL\_D\_T\_SPEC\_SHEET

072516

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Metalumen

FEATURES

**COMMERCIAL // Commercial Lighting** - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation.

Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in

Metalumen's Start to End Development Process.

**MetaICE** META ICE is a smooth Continuum Optical System with a 91% transmission rate that creates smooth subdued lighting with no source imagery. Meta Ice is a premium lensing optic unique to Metalumen but coupled

with a high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen delivery.

**DAMP** Suitable for damp locations.

PHOTOMETRIC DATA

1 T8 LAMP

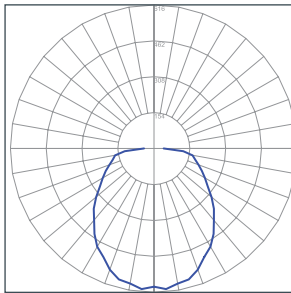
**File Name:** RM2D-1T8-4-M  
**Luminaire Lumens:** 1737  
**Efficiency:** 60%  
**Efficacy:** 50 lms/W  
**Total Watts:** 35  
**Optics Down:** Meta Ice

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	71	71	71	71	70	70	70	70	67	67	67	67
1	64	60	57	55	62	59	56	54	56	54	52	52
2	58	52	48	44	56	51	47	43	49	45	42	42
3	52	46	40	36	51	45	40	36	43	39	35	35
4	48	40	35	31	47	40	34	30	38	33	30	30
5	44	36	30	26	43	35	30	26	34	29	26	26
6	41	33	27	23	40	32	27	23	31	26	23	23
7	38	30	24	20	37	29	24	20	28	23	20	20
8	35	27	22	18	34	27	22	18	26	21	18	18
9	33	25	20	16	32	24	20	16	24	19	16	16
10	31	23	18	15	30	23	18	15	22	18	15	15

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0.0	22.5	45.0	67.5	90.0
0	592.24	592.24	592.24	592.24	592.24
5	604.82	602.81	603.22	598.24	605.68
10	589.09	601.10	600.00	597.19	616.39
15	581.76	573.79	580.12	575.91	566.83
20	552.91	558.56	550.07	542.48	546.88
25	513.21	518.17	517.17	508.79	503.74
30	486.31	480.09	478.54	467.71	470.32
35	446.61	442.37	435.24	428.86	417.09
40	400.58	401.68	388.58	380.44	377.38
45	364.98	361.45	342.31	336.54	336.38
50	324.06	315.96	304.20	297.10	299.31
55	283.19	280.12	270.82	262.99	260.72
60	253.71	246.52	237.29	233.00	231.39
65	227.72	220.70	209.87	207.85	205.96
70	203.29	195.17	187.50	184.07	182.17
75	183.87	175.89	169.41	165.66	164.49
80	169.38	160.24	152.94	145.45	146.15
85	126.03	112.98	98.05	88.82	85.70
90	41.82	25.48	13.25	8.23	7.26

LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0	45	90
45	6134	3520	3021
55	5757	2914	2387
65	6092	2447	1984
75	7524	2229	1727
85	11724	1534	1023

1 T5 LAMP

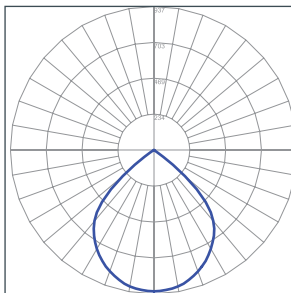
**File Name:** RM2D-1ST5-4-SP-D  
**Luminaire Lumens:** 1558  
**Efficiency:** 60 %  
**Efficacy:** 39 lms/W  
**Total Watts:** 39.63  
**Optics Up:** None  
**Optics Down:** Specular parabolic louver

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	71	71	71	71	70	70	70	70	67	67	67	67
1	67	66	64	62	66	64	63	61	62	61	59	59
2	63	60	57	55	62	59	56	54	57	55	53	53
3	59	55	51	48	58	54	51	48	52	49	47	47
4	55	50	46	43	54	49	46	43	48	45	42	42
5	52	46	42	39	51	45	41	39	44	41	38	38
6	49	42	38	35	48	42	38	35	41	37	35	35
7	46	39	35	32	45	39	34	32	38	34	31	31
8	43	36	32	29	42	36	32	29	35	31	29	29
9	40	33	29	26	39	33	29	26	32	29	26	26
10	38	31	27	24	37	31	27	24	30	27	24	24

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	921	921	921	921	921
5	916	918	914	920	923
10	903	905	915	928	934
15	878	887	911	929	936
20	842	859	894	912	915
25	798	823	859	880	888
30	745	775	807	820	814
35	682	715	730	698	676
40	604	626	589	519	475
45	478	488	419	312	255
50	266	301	236	142	93
55	76	118	98	48	19
60	11	20	28	18	5
65	3	2	3	4	1
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0	45	90
45	11988	10508	6395
55	2350	3030	587
65	126	126	42
75	0	0	0
85	0	0	0