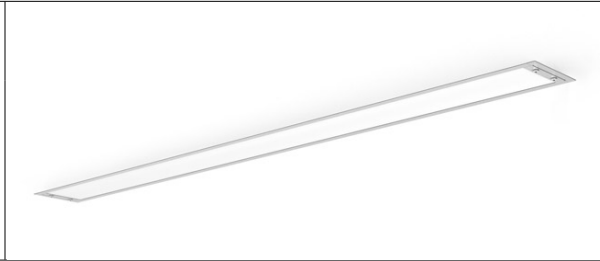
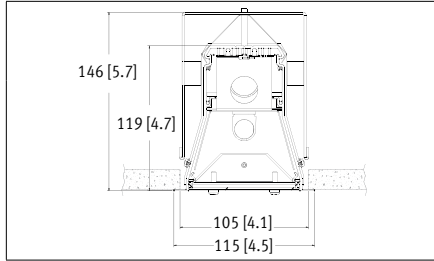


# Grande RM4DOD

Fluorescent . Recessed (Ceiling) . Outdoor



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

## ORDERING LOGIC

RM4DOD	# of lamps	Source	Length	Optics		Finish	Ballast	Circuitry	R	Voltage	Options
				Up	Down						
<b># of Lamps</b>	<b>Length</b>	<b>Optics Down</b>		<b>Ballast</b>			<b>Mounting</b>		<b>Options</b>		
1 = 1 Lamp	4 = 4 ft	M = Meta Ice		E = Electronic Instant Start (T8)			R = Recessed (Ceiling)		SP = Surge Protection		
2 = 2 Lamps	8 = 8 ft	MA = Meta Ice w/ Asymmetrical Reflector		R = Programmed Rapid Start			Voltage		EM = Emergency Pack		
	12 = 12 ft	<b>Finish</b>		D1 = 0-10V Dimming			1 = 120 V		_ = None (leave space empty)		
<b>Source</b>	R = Continuous Rows Consult factory	SA = Satin Aluminum		<b>Circuitry</b>			2 = 277 V				
T8	<b>Optics Up</b>	W = White		1 = 1 Circuit			3 = 347 V				
T5	- = None (leave space empty)	C = Custom Finish Specify RAL#:		LR = Left/Right Switching (2 lamps) (Not available on 4ft units with EM option)			4 = UNV				
T5HO							For other voltage contact factory				

## SPECIFICATIONS

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

**Housing:** Rigid extruded aluminum body, 2.0mm (0.08") nominal wall thickness. Aluminum formed end caps.

**Finish:** Satin aluminum and white are standard finishes. For custom finish, contact factory.

**Weight:** 2.1 kg/300mm [ 4.6 lb/ft ]

**Mounting:** Recessed, Solid Stem, Surface (Ceiling), Wall: horizontal mount with lens facing down; vertical surface with lens facing out.

**Electrical:** Factory prewired.

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

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

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

RoHS compliant. IC rated and Non-IC rated.

**Environment:** Suitable for wet locations. Suitable for natatorium environments.

## 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: Grande\_RM4DOD\_FL\_R\_SPEC\_SHEET\_20181016

570 Southgate Drive, Guelph, Ontario N1G 4P6  
Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

1.800.621.6785 | T 519.822.4381 | F 519.822.4589  
www.metalumen.com

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.

**H** **MEDILUMEN** // Healthcare Lighting Every product in our broad line of healthcare luminaires has been strategically engineered to meet modern healthcare demands while addressing patient needs and aesthetic requirements.

**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.

**WET** Suitable for wet location.

PHOTOMETRIC DATA

2 T8 LAMPS

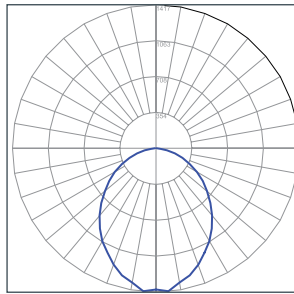
**File Name:** RM4DOD-2T8-4-M  
**Luminaire Lumens:** 3458  
**Total Watts:** 79.2  
**Efficacy:** 44 lms/W  
**Optics Up:** None  
**Optics Down:** Meta Ice

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
<b>RCR</b>												
0	71	71	71	71	69	69	69	69	66	66	66	66
1	65	62	60	57	63	61	59	57	58	56	55	55
2	59	54	50	47	58	53	50	47	51	48	45	45
3	54	48	43	39	53	47	43	39	45	42	38	38
4	50	43	38	34	48	42	37	33	40	36	33	33
5	46	38	33	29	45	38	33	29	36	32	29	29
6	42	35	29	26	41	34	29	25	33	28	25	25
7	39	31	26	23	38	31	26	23	30	26	22	22
8	37	29	24	20	36	28	24	20	28	23	20	20
9	34	26	22	18	33	26	21	18	25	21	18	18
10	32	24	20	17	31	24	20	17	24	19	17	17

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	8597	4927	4152
55	7968	3801	3122
65	6961	2690	2130
75	5381	1536	1177
85	2868	451	335

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0.0	22.5	45.0	67.5	90.0
0	1392.85	1392.85	1392.85	1392.85	1392.85
5	1384.23	1403.72	1391.68	1416.95	1360.75
10	1316.19	1354.32	1368.02	1343.97	1325.30
15	1301.73	1304.08	1285.80	1297.98	1289.49
20	1237.13	1257.55	1238.92	1222.11	1226.50
25	1179.14	1172.30	1162.05	1135.21	1119.94
30	1104.21	1080.39	1087.13	1059.42	1046.75
35	1012.98	1014.66	992.28	965.35	949.36
40	928.94	913.45	888.88	863.96	847.21
45	822.78	818.85	787.18	761.55	756.27
50	727.65	716.03	683.22	656.45	662.67
55	638.28	613.43	586.59	564.01	562.69
60	529.97	519.64	487.22	468.14	457.60
65	432.04	414.73	387.87	369.70	368.12
70	328.84	313.42	293.81	278.42	276.89
75	226.78	214.10	199.19	193.11	188.59
80	139.51	130.46	121.54	112.20	107.64
85	60.07	57.24	50.17	48.38	47.83
90	16.35	13.07	8.71	9.04	9.36

2 T5 LAMPS

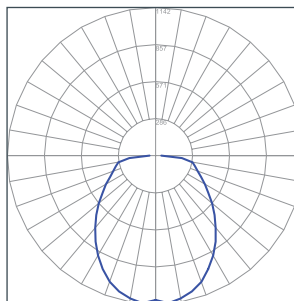
**File Name:** RM4DOD-2T5-4-M  
**Luminaire Lumens:** 3143  
**Total Watts:** 62  
**Efficacy:** 51 lms/W  
**Optics Up:** None  
**Optics Down:** Meta Ice

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
<b>RCR</b>												
0	72	72	72	72	70	70	70	70	67	67	67	67
1	65	61	58	55	63	60	57	54	57	55	53	53
2	58	53	48	44	57	52	47	44	49	46	43	43
3	53	46	41	37	52	45	40	36	43	39	36	36
4	49	41	35	31	47	40	35	31	39	34	30	30
5	45	37	31	27	43	36	31	27	35	30	26	26
6	41	33	27	23	40	32	27	23	31	27	23	23
7	38	30	25	21	37	30	24	21	29	24	21	21
8	36	27	22	19	35	27	22	19	26	22	18	18
9	34	25	20	17	33	25	20	17	24	20	17	17
10	32	23	19	15	31	23	18	15	22	18	15	15

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	7150	4148	3453
55	6554	3271	2678
65	6663	2754	2233
75	7794	2483	1953
85	10738	1738	1254

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0.0	22.5	45.0	67.5	90.0
0	1112.08	1112.08	1112.08	1112.08	1112.08
5	1116.84	1142.45	1128.63	1135.57	1091.80
10	1106.59	1118.06	1126.35	1101.95	1119.31
15	1063.82	1083.28	1071.10	1075.96	1073.70
20	1011.14	1034.91	1017.81	1018.33	1000.48
25	956.42	964.97	951.84	943.58	933.82
30	895.63	888.23	881.16	861.36	845.53
35	811.65	807.61	795.07	778.47	768.70
40	730.89	723.92	706.81	684.58	675.11
45	653.46	646.87	626.73	609.58	592.88
50	574.63	571.10	546.39	529.37	518.26
55	501.97	497.71	476.71	464.01	454.26
60	448.55	441.02	423.15	407.47	405.34
65	396.19	386.84	374.53	363.28	362.53
70	356.01	344.96	332.88	326.47	320.40
75	315.90	316.02	303.12	295.25	293.29
80	295.10	290.98	275.06	266.06	259.69
85	218.66	203.90	181.61	167.28	167.38
90	70.31	45.87	26.66	17.20	17.84

**PHOTOMETRIC DATA (continued)**

**2 T5HO LAMPS**

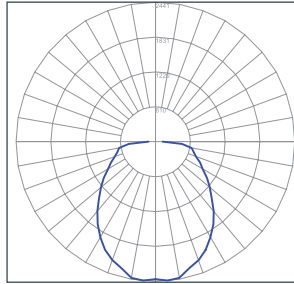
File Name: RM4DOD-2T5HO-4-M  
 Luminaire Lumens: 6889  
 Total Watts: 118  
 Efficacy: 58 lms/W  
 Optics Up: None  
 Optics Down: Meta Ice

**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	80	80	80	80	78	78	78	78	75	75	75	75
1	73	70	67	65	72	69	66	64	66	64	62	62
2	67	61	57	53	65	60	56	53	58	54	51	51
3	61	54	49	44	60	53	48	44	51	47	43	43
4	56	48	42	38	55	47	42	38	46	41	37	37
5	52	43	37	33	50	42	37	33	41	36	32	32
6	48	39	33	29	47	38	33	29	37	32	28	28
7	44	35	30	25	43	35	29	25	34	29	25	25
8	41	32	27	23	40	32	26	23	31	26	23	23
9	39	30	24	21	38	29	24	21	29	24	20	20
10	36	27	22	19	35	27	22	19	26	22	19	19

**PHOTOMETRIC CURVE**



**CANDLE DISTRIBUTION**

Vertical Angle	Horizontal Angle				
	0.0	22.5	45.0	67.5	90.0
0	2402.69	2402.69	2402.69	2402.69	2402.69
5	2396.06	2440.75	2408.79	2391.70	2408.00
10	2292.69	2416.34	2391.31	2389.28	2401.04
15	2243.62	2292.71	2289.67	2280.23	2260.93
20	2198.35	2207.12	2189.84	2176.30	2144.32
25	2114.58	2082.88	2062.90	2013.90	2010.61
30	1939.23	1930.79	1892.06	1856.87	1838.05
35	1792.72	1765.61	1717.51	1680.21	1673.21
40	1603.49	1586.78	1537.17	1500.50	1486.38
45	1431.19	1398.52	1359.82	1311.45	1308.28
50	1258.14	1240.43	1209.05	1160.85	1149.11
55	1104.01	1106.01	1053.32	1033.40	1009.91
60	981.01	956.70	937.14	896.56	895.56
65	874.50	859.97	827.90	801.78	798.26
70	768.85	758.78	743.14	722.86	713.90
75	708.03	691.63	673.29	659.45	661.09
80	662.80	645.26	623.64	603.23	601.35
85	486.82	465.91	434.67	413.85	412.53
90	165.21	123.08	85.63	66.80	60.21

**LUMINANCE DATA (CD/M²)**

Vertical Angle	Horizontal Angle		
	0	45	90
45	15872	9006	7602
55	14611	7213	5924
65	14909	6060	4877
75	17714	5471	4352
85	24257	4110	3044