

Grande RM4D

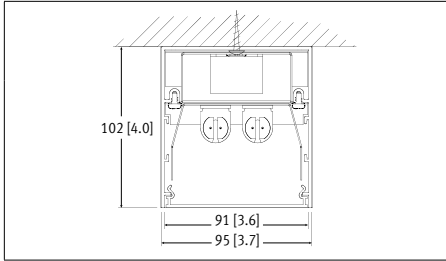
Fluorescent . Surface



MetaICE



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



ORDERING LOGIC

Example Part Number: RM4D-2T8-8-M-W-D1LR-S-1-D

RM4D			Optics					S		
# of lamps	Source	Length	Up	Down	Finish	Ballast	Circuitry	Mounting	Voltage	Controls

# of Lamps	Source	Optics Up	Finish	Circuitry	Voltage
1 = 1 Lamp	T8	_ = None (leave space empty)	SA = Satin Aluminum	1 = 1 Circuit	1 = 120 V
1S = 1 Staggered* (excludes 4 ft)	T5	Optics Down	W = White	LR = Left/Right Switching (2 Lamps)	2 = 277 V
2 = 2 Lamps	T5HO	SP = Specular Parabolic Louver **	C = Custom Finish Specify RAL#:	AS = Alternate Switching	3 = 347 V
2S = 2 Staggered* (excludes 4 ft)	Length	SSP = Semi Specular Parabolic Louver **		EM = Emergency/Night Light	4 = UNV (120 - 277 V)
*T8 only with Meta Ice	4 = 4 ft	M = Meta Ice	Ballast	B = Battery Pack	Controls
	8 = 8 ft	A = Asymmetric Reflector *	E = Electronic Instant Start (T8)	Mounting	= None (leave space empty)
	12 = 12 ft	MA = Meta Ice with Asymmetric Reflector *	R = Programmed Rapid Start	S = Surface	D = Daylight Sensor
	R = Continuous Rows See p. 3	* 1 lamp only ** T8 - 1 lamp only T5/T5HO - 1 to 2 lamps	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, 2.0mm (0.08") nominal wall thickness. 95mm (3.7") wide x 102mm (4.0") high, Steel formed end caps.

Optical System: Tubular fluorescent lamps transmit to an internal high performance-side kicking reflector that then passes through our Meta Ice acrylic diffuser for smooth distribution; this creates a

continuum of smooth consistent light.

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

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

Mounting: Pendant: Aircraft cable yoke complete with a Quick-Grip field adjustable suspension system provides for quick and easy onsite alignment. All mounting

has been independently tested to meet stringent safety requirements.

Recessed: Drywall Flanged or Flangeless, T-Bar Flanged

Surface: Ceiling

Wall: mounting plate provided

Electrical: Factory prewired with easy wire quick connect sections.

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. RoHS compliant.

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: Grande_RM4D_FL_S

20170516

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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.

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.

DAMP Suitable for damp locations.

PHOTOMETRIC DATA

1 T5 LAMP

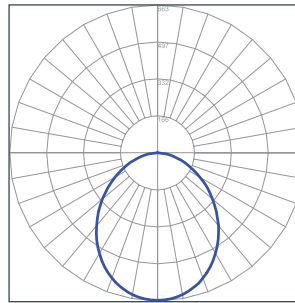
File Name: RM4D-1T5-4-M-SURFACE
Luminaire Lumens: 1593
Input Watts: 38.22
Efficiency: 61 %
Efficacy: 42 lms/W
Optics Up: None
Optics Down: Meta Ice

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	73	73	73	73	71	71	71	71	68	68	68		
1	67	64	62	59	65	63	61	58	60	58	57		
2	61	56	52	49	60	55	52	48	53	50	47		
3	56	50	45	41	55	49	44	41	47	43	40		
4	51	44	39	35	50	44	39	35	42	38	34		
5	47	40	35	31	46	39	34	30	38	33	30		
6	44	36	31	27	43	35	30	27	34	30	27		
7	41	33	28	24	40	32	27	24	31	27	24		
8	38	30	25	21	37	30	25	21	29	24	21		
9	36	28	23	19	35	27	23	19	27	22	19		
10	33	26	21	18	33	25	21	18	25	20	18		

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	662	662	662	662	662
5	658	660	657	660	662
10	646	647	647	648	650
15	626	629	626	625	628
20	598	600	597	595	596
25	563	564	559	556	556
30	521	521	515	509	509
35	475	475	467	460	457
40	426	425	417	409	406
45	374	373	365	356	353
50	323	321	313	305	303
55	272	271	264	256	253
60	222	221	215	210	207
65	175	174	170	165	163
70	131	131	128	124	122
75	90	90	88	86	85
80	55	54	53	52	51
85	23	22	22	22	22
90	0	0	0	0	0

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	4912	4794	4636
55	4404	4274	4096
65	3845	3736	3582
75	3229	3157	3050
85	2451	2344	2344

2 T5 LAMPS

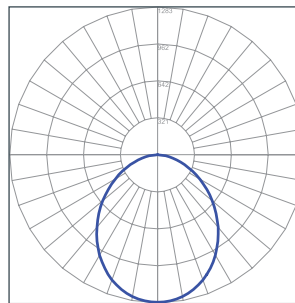
File Name: RM4D-2T5-4-M-SURFACE
Luminaire Lumens: 3042
Input Watts: 57.39
Efficiency: 58 %
Efficacy: 53 lms/W
Optics Up: None
Optics Down: Meta Ice

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	70	70	70	70	68	68	68	68	65	65	65		
1	64	61	59	57	62	60	58	56	58	56	54		
2	58	54	50	47	57	53	49	46	51	48	45		
3	54	48	43	39	52	47	42	39	45	41	38		
4	49	42	38	34	48	42	37	33	40	36	33		
5	45	38	33	29	44	37	33	29	36	32	29		
6	42	34	29	26	41	34	29	26	33	29	25		
7	39	31	26	23	38	31	26	23	30	26	23		
8	36	29	24	21	36	28	24	21	28	23	20		
9	34	26	22	19	33	26	22	19	25	21	18		
10	32	24	20	17	31	24	20	17	24	20	17		

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION




Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1281	1281	1281	1281	1281
5	1272	1276	1271	1275	1279
10	1249	1251	1249	1251	1255
15	1210	1214	1206	1204	1207
20	1156	1158	1148	1142	1144
25	1086	1086	1073	1064	1064
30	1005	1002	986	972	970
35	915	912	893	875	870
40	819	815	795	776	769
45	720	716	694	675	669
50	620	615	595	577	572
55	522	518	500	483	478
60	427	423	408	395	390
65	335	332	322	311	308
70	250	248	241	233	230
75	173	171	167	161	160
80	104	103	99	97	96
85	44	41	41	41	42
90	0	0	0	0	0






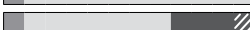

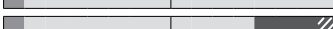








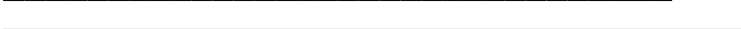






LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	9456	9114	8786
55	8452	8095	7739
65	7361	7076	6768
75	6207	5992	5741
85	4688	4369	4475

MOUNTING - ROW CONFIGURATIONS - T8

LEGEND

-  Standard (STD) Wire Entry Location (located 52mm from end on top of fixture)
-  Emergency (EM) Lighting Location
-  Emergency Wire Entry Location (located 52mm from end on top of fixture)

QTY	Nominal Length	Run Length Overall	Alone Length	Start Length	Mid Length(s)	End Length	Light Level STD = Standard w/EM = With Emergency	
—	4'	1225 [48.2]	4				STD	
							w/EM	
—	8'	2442 [96.1]	8				STD	
							w/EM	
—	12'	3661 [144.1]	12				STD	
							w/EM	
—	16'	4881 [192.2]	8	8			STD	
							w/EM	
—	20'	6100 [240.2]	12	8			STD	
							w/EM	
—	24'	7319 [288.1]	12	12			STD	
							w/EM	
—	28'	8538 [336.1]	8	12	8		STD	
							w/EM	
—	32'	9757 [384.1]	12	8	12		STD	
							w/EM	
—	36'	10977 [432.2]	12	12	12		STD	
							w/EM	
—	40'	12196 [480.2]	12	8	12		STD	
							w/EM	
—	44'	13415 [528.1]	12	12	12		STD	
							w/EM	
—	48'	14634 [576.1]	12	12	12		STD	
							w/EM	