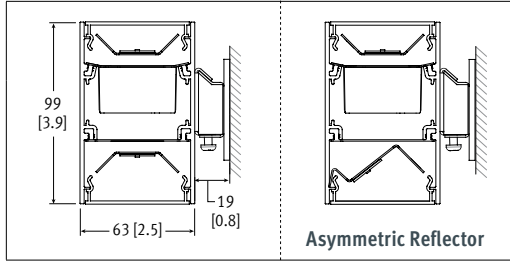


Rail 2 RM2DI (Formerly Rail)

LED . Wall



See p.2 for DLC Approved Products



CAT #:

PREP BY:

DATE:

PROJECT:

TYPE:

NOTES:

ORDERING LOGIC

Example Part Number: RM2DI-2L35K-8-MMA-SA-L3UD-W-1-D-90

Optics																																																		
RM2DI							W																																											
Color Temp		Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Controls	Options																																							
Color Temp		Optics Up		Light Level (LL) / Driver				Circuitry		Controls																																								
2L30K = 3000K		N = None - Open Top		Fixture Lumens Light level measured at 3500K. <table><tr><th></th><th>0-10V Dimming (Standard)</th><th>Lumens Delivered</th><th>Wattage</th><th>Efficacy (LPW)</th></tr><tr><td rowspan="4">M up M down</td><td>L1</td><td>3409</td><td>27.6</td><td>123</td></tr><tr><td>L2</td><td>4203</td><td>35.2</td><td>119</td></tr><tr><td>L3</td><td>5616</td><td>48.3</td><td>116</td></tr><tr><td>L4</td><td>10339</td><td>96.6</td><td>107</td></tr><tr><td rowspan="4">M up MA down</td><td>L1</td><td>3389</td><td>27.6</td><td>122</td></tr><tr><td>L2</td><td>4178</td><td>35.2</td><td>118</td></tr><tr><td>L3</td><td>5578</td><td>48.3</td><td>115</td></tr><tr><td>L4</td><td>10271</td><td>96.6</td><td>106</td></tr></table>					0-10V Dimming (Standard)	Lumens Delivered	Wattage	Efficacy (LPW)	M up M down	L1	3409	27.6	123	L2	4203	35.2	119	L3	5616	48.3	116	L4	10339	96.6	107	M up MA down	L1	3389	27.6	122	L2	4178	35.2	118	L3	5578	48.3	115	L4	10271	96.6	106	1 = 1 Circuit		– = None (leave space empty)	
	0-10V Dimming (Standard)	Lumens Delivered	Wattage					Efficacy (LPW)																																										
M up M down	L1	3409	27.6					123																																										
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	L3	5578	48.3	115																																														
	L4	10271	96.6	106																																														
2L35K = 3500K		M = Meta Ice						UD = Up / Down Switching		D = Daylight Sensor																																								
2L40K = 4000K		Optics Down						EM = Emergency/Night Light		O = Occupancy Sensor																																								
Length		M = Meta Ice						B = Battery Pack		DO = Daylight/Occupancy Sensor																																								
4 = 4 ft		MA = Meta Ice w/ Asymmetric Reflector						Mounting		Options																																								
8 = 8 ft		Finish																																																
12 = 12 ft		SA = Satin Aluminum						W = Wall		90 = 90 CRI																																								
R = Continuous Rows See p 3-4		W = White						Voltage		– = None (leave space empty)																																								
		C = Custom Finish Specify RAL#:						1 = 120 V																																										
								2 = 277 V																																										
								3 = 347 V																																										
								4 = UNV (120-277V)																																										
								For other voltage, consult 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, 2.3mm [0.09"] nominal wall thickness. 63mm [2.5"] wide x 99mm [3.9"] high. Steel formed end caps.

Optical System: Optical System MetaLED mid flux LED technology transmits to an internal high performance-side kicking reflector that then passes through our Meta Ice acrylic diffuser for smooth distribution, creating a continuum of smooth consistent light.

CRI: 83+ for 3500K, 80 minimum for all

CCTs in standard configurations.

Lumen Maintenance: At an ambient operating temperature of 35°C the LED lifetime expectancy =< 60 000hrs at L70.

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

Weight: 0.95 kg/300mm [2.1 lb/ft]

Mounting: Steel aircraft cable complete with a Quick-Grip field adjustable suspension system provides for quick and easy on-site alignment.

Electrical: Factory prewired with easy wire quick connect sections.

Drivers: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range Power factor is >90% with a Class 2 rating.

Controls: Refer to Ordering Logic chart above.

Lutron Driver Options: Consult factory for Lutron driver options:

• L3DAE Hi-lume 1% EcoSystem LED Driver

- L3DA3W Hi-lume 1% 3-wire LED Driver
 - LTEA2W Hi-lume 1% 2-wire LED Driver
 - LDE1 Hi-lume 1% -H EcoSystem LED Driver
 - LDE5 5-Series EcoSystem LED Driver
- Approvals:** Certified to NRTL and IES testing standards. RoHS compliant. This product is cULus listed.
- Environment:** Suitable for dry or damp locations.

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards 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: RM2DI_LED_W_SPEC_SHEET

20180316

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.



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.



META ICE 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.



META LED LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.



DAMP Suitable for damp locations.

	DLC Approved RM2DI Products	RM2DI-2L35K-4-MM-xx-L1X-X-XX-4-X	RM2DI-2L35K-8-MM-xx-L1X-X-XX-[34]-X	For more Metalumen DLC Approved Products, visit the DLC Website
		RM2DI-2L40K-4-MM-xx-L2X-X-XX-[34]-X	RM2DI-2L35K-8-MM-xx-L2X-X-XX-[34]-X	
		RM2DI-2L40K-4-MM-xx-L3X-X-XX-[34]-X	RM2DI-2L35K-8-MM-xx-L3X-X-XX-[34]-X	
			RM2DI-2L40K-8-MM-xx-L1X-X-XX-[34]-X	
			RM2DI-2L40K-8-MM-xx-L2X-X-XX-[34]-X	
			RM2DI-2L40K-8-MM-xx-L3X-X-XX-[34]-X	

PHOTOMETRIC DATA - 3500K - L3

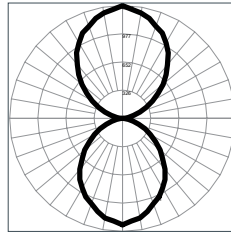
File Name: RM2DI-2L35K-4-MM-L3
Luminaire Lumens: 5616
Total Watts: 48.3
Efficacy: 116 lms/W
Optics Up: Meta Ice
Optics Down: Meta Ice

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	107	107	107	107	98	98	98	98	82	82	82	
1	98	93	90	86	90	86	83	80	72	70	68	
2	89	82	76	71	82	76	71	66	64	60	57	
3	82	72	65	60	75	67	61	56	57	52	48	
4	75	64	57	51	69	60	53	48	51	45	41	
5	69	57	50	44	63	53	46	41	45	40	36	
6	63	52	44	38	58	48	41	36	41	36	31	
7	59	47	39	33	54	43	36	32	37	32	28	
8	54	42	35	30	50	40	33	28	34	29	25	
9	51	39	31	26	47	36	30	25	31	26	22	
10	47	36	29	24	44	33	27	23	29	24	20	

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	10770	5143	4055
55	9140	3541	2644
65	7341	2174	1534
75	4852	1025	719
85	2039	237	159

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1228.74	1228.74	1228.74	1228.74	1228.74
5	1189.35	1200.31	1177.54	1165.76	1163.72
10	1167.06	1152.99	1198.18	1137.48	1181.95
15	1112.45	1115.11	1116.29	1100.15	1106.07
20	1047.45	1062.73	1054.99	1045.75	1055.26
25	1000.6	1004.59	997.03	971.02	963.65
30	928.44	917.51	910.25	885.8	883.81
35	860.35	842.07	815.45	798.4	785.36
40	767.16	749.91	727.16	703.3	680.19
45	656.74	655.31	631.41	605.2	591.08
50	569.87	552.23	529.07	495.5	486.97
55	466.15	456.44	434.06	408.81	394.53
60	373.8	364.15	341.59	315.2	309.11
65	289.77	278.42	258.06	235.19	227.25
70	199.18	199.05	181.59	164.27	160.82
75	129.79	129	113.91	102.81	102.58
80	69.74	68.89	59.67	53.71	52.24
85	26.94	25.03	23.79	20.71	21.12
90	5.18	3.72	3.35	3.74	3.65
95	22.92	20.8	20.17	18.64	18.14
100	67.07	66.58	64.69	60.54	56.12
105	133.67	131.05	124.35	116.95	116.53
110	213.67	210.3	201.19	196.84	190.43
115	302.08	299.99	286.48	276.78	277.07
120	402.81	399.64	388.51	378.46	369.67
125	501.87	503.29	489.76	481.48	470.23
130	612.01	600.97	591.68	584.27	579.34
135	715.46	704.17	692.76	687.28	689.53
140	810.46	811.31	807.05	803.24	797.59
145	925.15	905.52	897.28	895.52	892.7
150	1006.47	1006.16	997.22	978.92	988.86
155	1089.14	1090.83	1065.8	1070.18	1090.61
160	1131.88	1136.89	1136.34	1155.33	1143.95
165	1196.89	1198.87	1220.74	1186.77	1222.51
170	1237.76	1276.73	1240.7	1243.9	1249.6
175	1261.73	1269.5	1271.88	1273.38	1261.6
180	1303.07	1303.07	1303.07	1303.07	1303.07

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	426.06	7.60
0-30	879.96	15.60
0-40	1391.8	24.70
0-60	2263.26	40.20
0-80	2644.5	47.00
0-90	2674.82	47.50
10-90	2562.11	45.50
20-40	965.74	17.20
20-50	1450.06	25.80
40-70	1127.97	20.10
60-80	381.23	6.80
70-80	124.72	2.20
80-90	30.33	0.50
90-110	164.87	2.90
90-120	453.59	8.10
90-130	892.16	15.90
90-150	1995.42	35.50
90-180	2950.69	52.50
110-180	2785.82	49.50
0-180	5625.52	100.00

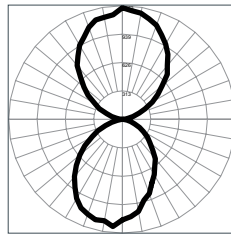
File Name: RM2DI-2L35K-4-MMA-L3
Luminaire Lumens: 5578
Total Watts: 48.3
Efficacy: 115 lms/W
Optics Up: Meta Ice
Optics Down: Meta Ice w/ Asymmetric Reflector

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	107	107	107	107	98	98	98	98	82	82	82	
1	98	93	90	86	90	86	83	80	72	70	68	
2	89	82	76	71	82	75	70	66	64	60	57	
3	81	72	65	59	75	67	60	55	56	52	48	
4	74	64	56	50	68	59	52	47	50	45	41	
5	68	57	49	43	63	53	46	41	45	40	35	
6	63	51	43	38	58	48	40	35	41	35	31	
7	58	46	38	33	54	43	36	31	37	31	27	
8	54	42	34	29	50	39	32	28	34	28	24	
9	50	38	31	26	46	36	29	25	31	25	22	
10	47	35	28	23	43	33	26	22	28	23	20	

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2995	3763	8329
55	2079	2705	7058
65	1272	1780	5642
75	658	873	3804
85	166	210	1423

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1138.31	1138.31	1138.31	1138.31	1138.31
5	1079.55	1086.06	1062.18	1087.11	1109.73
10	1017.68	1011.16	1017.24	1053.82	1089.27
15	934.14	935.02	974.7	1032.78	1048.44
20	887.28	883.99	905.47	935.87	996.77
25	794.18	818.91	838.05	880.15	956.71
30	715.79	730.06	758.33	827.13	877.5
35	644.97	649.87	695.83	758.43	822.32
40	554.6	570.03	608.9	653.03	737.38
45	487.15	493.05	528.63	582.25	656.1
50	417.3	425.95	454.5	508.41	570.53
55	339.03	344.61	371.67	409.68	465.08
60	268.34	276.43	301.44	337.39	382.22
65	201.72	211.45	231.54	255.93	287.84
70	143.9	152.83	160.31	187.1	204.88
75	98.21	97.21	103.77	114.46	131.55
80	52.74	55.36	58.13	62.39	70
85	22.51	21.57	21.87	25.09	24.34
90	3.63	4.04	3.62	3.93	5.89
95	22.86	24.5	27.38	31.18	31.98
100	67.28	69.07	75.54	79.91	80.01
105	128.46	134.26	138.84	150.06	153.49
110	201.04	205.22	222.84	235.84	238.86
115	285.43	296.02	307.96	326.62	328.67
120	371.49	391.81	403.82	419.95	428
125	463.65	480.91	507.72	533.64	532.26
130	578.88	596.94	609.99	624.49	631.36
135	685.1	681.87	712.52	734.76	724.86
140	788.96	792.76	799.36	821.21	824.75
145	894.41	891.09	901.98	919.21	892.69
150	968.26	973.27	973.69	1002.96	986.66
155	1043.87	1056.06	1040.26	1058.43	1063.57
160	1106.72	1092.06	1124.16	1126.38	1119.27
165	1136.05	1144.33	1179.08	1151.26	1149.53
170	1201.43	1177.53	1203.3	1192.02	1182.36
175	1149.1	1247.01	1214.79	1214.26	1237.13
180	1250.15	1250.15	1250.15	1250.15	1250.15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	398.52	7.10
0-30	831.06	14.90
0-40	1330.57	23.80
0-60	2214.77	39.60
0-80	2612.32	46.80
0-90	2642.1	47.30
10-90	2537.21	45.40
20-40	932.05	16.70
20-50	1416.91	25.40
40-70	1152.56	20.60
60-80	397.54	7.10
70-80	129.19	2.30
80-90	29.79	0.50
90-110	185.47	3.30
90-120	488.96	8.80
90-130	935.03	16.70
90-150	2028.32	36.30
90-180	2945.12	52.70
110-180	2759.65	49.40
0-180	5587.22	100.00