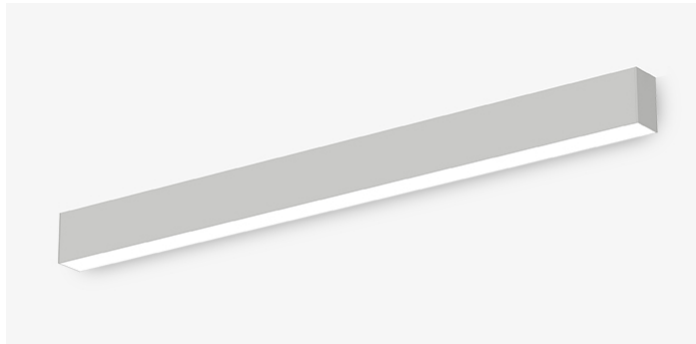


RAIL 2 RM2DU (Formerly RM2DI)

LED . WALL . DIRECT / INDIRECT



FEATURES

- Efficacy up to 123 lm/W
- 50° & 80° Beam Spreads
- Optional direct accent lighting available on 4, 8 and 12 ft lengths only

PART #:	
PREP BY:	DATE:
PROJECT:	
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 3500K

		MBMB	MBMD	MM
		L3	L3	L3
Lumens (lm) per foot	80 CRI	1252	1272	1404
	90 CRI	1096	1113	1229
Distribution (Up / Down %)		52 / 48	55 / 45	53 / 47
Wattage (W) per foot		12.1		
Efficacy (lm/W)	80 CRI	104	105	116
	90 CRI	91	92	102
L70 Estimate (h)		≥ 60,000 hrs		

See page 2 for the complete Light Level Performance chart.

ORDERING LOGIC

Example Part Number: RM2DU-2L35K-12-MBLM5-W-L3B31-W-1-D-90

RM2DU																							
1	2	3	4	5	6	7	8	9	10	11													
1. SERIES RM2DU		2. COLOR TEMP 2L30K 3000K 2L35K 3500K 2L40K 4000K 90 CRI is available under OPTIONS			3. LENGTH 2 2 ft 3 3 ft 4 4 ft 5 5 ft 6 6 ft 7 7 ft 8 8 ft 9 9 ft 10 10 ft 11 11 ft 12 12 ft RA Continuous Rows Replace "A" with length in feet. C Custom Length*			4. OPTICS (UP / DOWN) and ACCENTS MBMB Meta Blanc / Meta Blanc MBMD Meta Blanc / Drop Lens MRMB Rise Lens / Meta Blanc MRMD Rise Lens / Drop Lens MM Meta Ice / Meta Ice ACCENTS: Replace XX with accent selected on p2. ACCENT finish is black. MBXX5 Meta Blanc / Accent, 50° Beamspread MBXX8 Meta Blanc / Accent, 80° Beamspread MRXX5 Rise Lens / Accent, 50° Beamspread MRXX8 Rise Lens / Accent, 80° Beamspread Meta Blanc, Rise & Drop Lens: Opal Diffuse Lens Meta Ice: High-Output Semi Diffuse Lens					5. FINISH SA Satin Aluminum W White B Black C Custom Finish Specify RAL:										
6. LIGHT LEVEL (LL) / DRIVER				7. CIRCUITRY		8. MOUNTING		9. VOLTAGE		10. CONTROLS / SENSORS		11. OPTIONS											
CODES		"Y" AND "X" REPLACEMENTS:		1 1 Circuit		W Wall		1 120 V		_ None (leave space empty)		90 90 CRI, High R9											
WITHOUT ACCENT	WITH ACCENT	"Y" represents Accent LL "X" represents Standard Direct LL Replace "Y" with: A = Low LL, B = Mid LL, C = High LL Replace "X" with: 1 = LL1, 2 = LL2, 3 = LL3, 4 = LL4, N = No LL (applicable when ACCENT configuration doesn't include lens)		UD Up / Down Switching				2 277 V		D Wattstopper Daylight Sensor		_ None (leave space empty)											
L1LX	L1YX			EM Emergency / Night Light				3 347 V		O Wattstopper Occupancy Sensor													
L2LX	L2YX			B Emergency Battery Pack ²				4 UNV (120 - 277V)		DO Wattstopper Daylight and Occupancy Sensor													
L3LX	L3YX																						
L4LX	L4YX																						
Examples: L3B2 - Indirect; LL3 / Direct; Accent Mid LL & Standard LL2 L3L2 - Indirect; LL3 / Direct; LL2																							
Select Driver below. See Light Level Performance chart on p2.																							

* Consult factory. | ¹ Battery operates 4ft sections only.

Select Driver:

- Factory option 0-10V, 1% Dimming
- LHE Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- L5E Lutron 5-Series EcoSystem LED Driver

Light Level Performance

3500K, 80 CRI, 0-10V Dimming (Standard)

Optics	UP: Meta Blanc DOWN: Meta Blanc (MBMB)			UP: Meta Blanc DOWN: Drop Lens (MBMD)			UP: Meta Ice DOWN: Meta Ice (MM)		
	Lumens per foot	Wattage per foot	Efficacy (lm/W)	Lumens per foot	Wattage per foot	Efficacy (lm/W)	Lumens per foot	Wattage per foot	Efficacy (lm/W)
L1	736	6.9	107	748	7.0	106	852	6.9	123
L2	920	8.8	104	936	8.9	105	1051	8.8	119
L3	1252	12.1	104	1272	12.1	105	1404	12.1	116
L4	2321	25.0	93	2359	25.0	94	2585	24.2	107

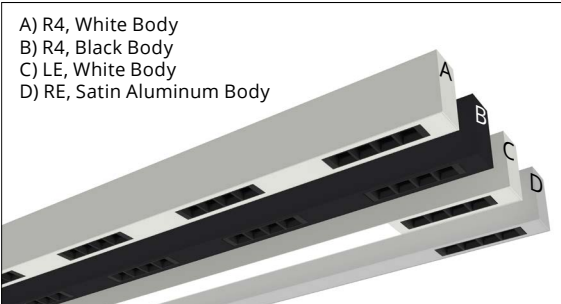
Lumen Adjustment Factor

Color Temp	80 CRI	90 CRI
3000K	0.984	0.880
3500K	1.000	0.875
4000K	1.032	0.879

ACCENTS

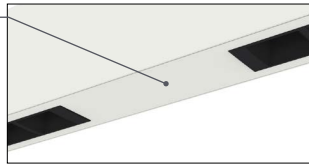
Recessed Downlights

Recessed downlight sections are available in 4, 8 and 12 ft lengths with beam spreads of 50 or 80 degrees. Recessed downlight comes in black finish only.



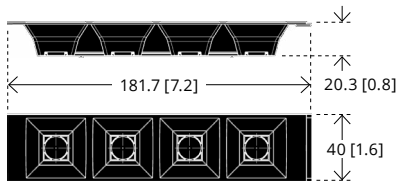
Filler

Finished in the same color as the body, the filler appears smooth and seamless, completing the rhythmical aesthetic of the recessed downlight configurations.



Output

362 lumens per recessed downlight



Select one:	Code	Direct Accent Configuration (Available for 4, 8 and 12 ft sections only)
<input type="checkbox"/>	RE	 Recessed downlight located at Edge (Power entry located on same end as accent)
<input type="checkbox"/>	RM	 Recessed downlight located at Middle
<input type="checkbox"/>	R2	 Recessed downlights x2
<input type="checkbox"/>	R3	 Recessed downlights x3
<input type="checkbox"/>	R4	 Recessed downlights x4
<input type="checkbox"/>	RF	 Recessed downlights Full Full 4 ft section fits max. 4 recessed downlights Full 8 ft section fits max. 8 recessed downlights Full 12 ft section fits max. 12 recessed downlights
<input type="checkbox"/>	LE	 Recessed downlight located at Edge with Lens (Power entry located on same end as accent)
<input type="checkbox"/>	LM	 Recessed downlight located at Middle with Lens
<input type="checkbox"/>	L2	 Recessed downlights x2 with Lens
For custom configurations, please provide a drawing on next page.		

CUSTOM CONFIGURATION

Custom configuration drawing is required in the grid below

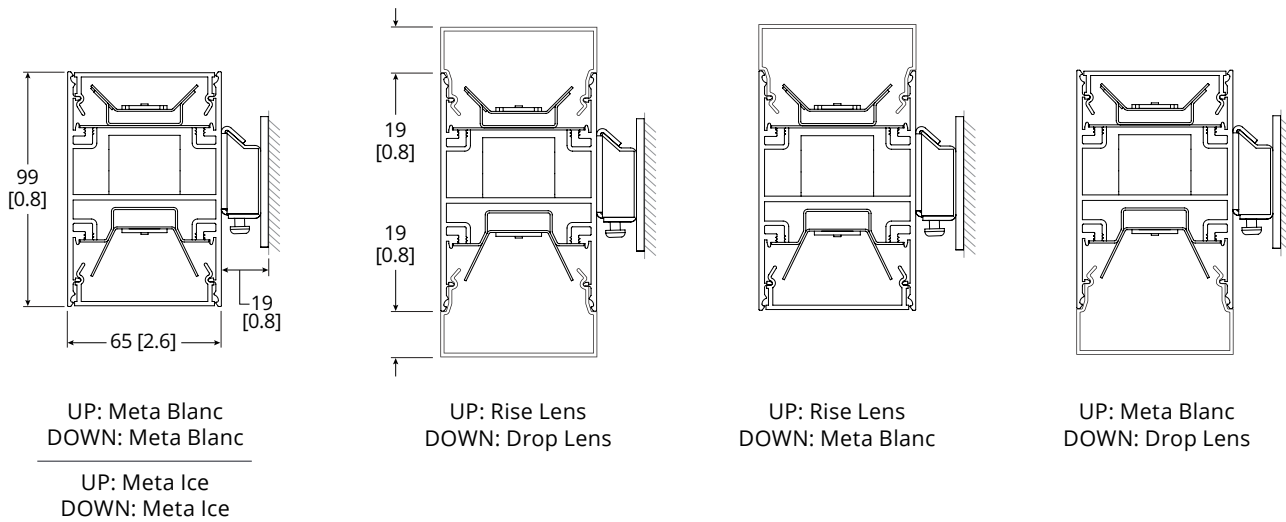
Approval drawings will be sent out upon order showing mounting locations.



WIRING

Standard Wiring	Emergency Wiring	Emergency Battery Pack Wiring
<p>BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - CAPPED/SW LEAD VIOLET - DIM(+) GREY - DIM(-)</p>	<p>BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - CAP OFF</p>	<p>BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - UNSWITCHED HOT</p>

CROSS SECTIONS & DIMENSIONS



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. Aluminum end caps.
Optical System: Metalumen luminaires are designed to utilize leading edge LED technology combined with luminaire optimized reflectors and our custom diffusers, resulting in industry leading optical performance.

CRI: 83+ for 3500K, 80 minimum for all CCTs in standard configurations.
Lumen Maintenance: Minimum 50,000h with TM-21 lumen maintenance of 85% @ 25°C ambient temperature (calculated based on IESNA LM-80-08 LED test data).
 L70: ≥60,000hrs.
Finish: Satin aluminum, white and black are standard finishes. For

custom finish, contact factory. Accent finish comes in black only.
Mounting: Wall bracket provided.
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 range is 1%-100%. Power factor is > 90%. Class 2 rating.

Approvals: Certified to NRTL and IES testing standards. cULus pending. RoHS compliant.
Environment: Suitable for dry or damp locations.

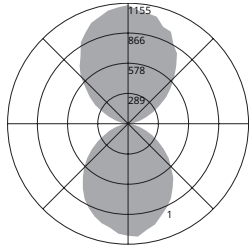
WARRANTY

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.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics Up: **Meta Blanc**
 Optics Down: **Meta Blanc**
 IES File: **RM2DU-2L35K-4-MBMB-L3**
 Lumens: **1252/ft** Wattage: **12.1/ft**
 Efficacy: **104**

PHOTOMETRIC CURVE
 52% Up
 48% Down



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	378	7.5
0-30	782	15.6
0-40	1241	24.7
0-60	2024	40.4
0-80	2370	47.3
0-90	2398	47.8
10-90	2299	45.8
20-40	863	17.2
20-50	1297	25.9
40-70	1015	20.2
60-80	347	6.9
70-80	114	2.3
80-90	28	0.6
90-110	147	2.9
90-120	405	8.1
90-130	792	15.8
90-150	1771	35.3
90-180	2616	52.2
110-180	2469	49.2
0-180	5015	100

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	94	90	86	90	86	83	80	73	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	49	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	28	24	44	33	27	23	29	24	20	

CANDELA DISTRIBUTION

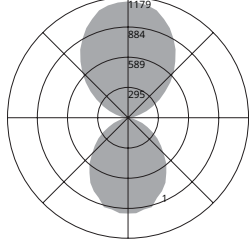
Vertical Angle	Horizontal Angle			
	0	30	60	90
0	1070	1070	1070	1070
10	1030	1043	1022	1027
20	931	950	935	930
30	823	812	798	794
40	673	659	627	624
50	508	491	452	440
60	331	319	298	282
70	180	173	158	147
80	63	58	53	48
90	4	3	4	3
100	60	60	55	51
110	187	184	172	168
120	347	347	337	329
130	531	531	516	518
140	717	722	701	707
150	874	889	880	866
160	986	1016	1025	1010
170	1073	1089	1095	1105
180	1136	1136	1136	1136

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	9541	4598	3605
55	8174	3146	2432
65	6518	1946	1426
75	4336	954	670
85	1936	217	147

Optics Up: **Meta Blanc**
 Optics Down: **Drop Lens**
 IES File: **RM2DU-2L35K-4-MBMD-L3**
 Lumens: **1272/ft** Wattage: **12.1/ft**
 Efficacy: **105**

PHOTOMETRIC CURVE
 55% Up
 45% Down



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	335	6.6
0-30	691	13.6
0-40	1091	21.4
0-60	1805	35.4
0-80	2207	43.3
0-90	2292	45
10-90	2203	43.2
20-40	755	14.8
20-50	1140	22.4
40-70	961	18.9
60-80	402	7.9
70-80	155	3.1
80-90	85	1.7
90-110	242	4.8
90-120	533	10.5
90-130	946	18.6
90-150	1952	38.3
90-180	2804	55
110-180	2562	50.3
0-180	5095	100

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	106	106	106	106	97	97	97	97	81	81	81	
1	96	92	88	84	88	84	81	78	70	68	65	
2	88	80	74	69	80	74	68	64	61	58	54	
3	80	71	63	57	73	65	59	53	54	50	46	
4	73	63	55	49	67	58	51	45	48	43	39	
5	67	56	48	42	61	51	44	39	43	38	34	
6	62	50	42	36	57	46	39	34	39	34	29	
7	57	45	37	32	52	42	35	30	35	30	26	
8	53	41	33	28	49	38	31	26	32	27	23	
9	50	37	30	25	45	35	28	24	30	24	21	
10	46	34	27	22	42	32	26	21	27	22	19	

CANDELA DISTRIBUTION

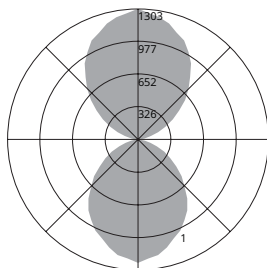
Vertical Angle	Horizontal Angle			
	0	22.5	45	67.5
0	932	932	932	932
10	906	915	924	908
20	829	834	828	813
30	731	722	711	697
40	582	582	567	560
50	424	426	429	434
60	277	292	309	328
70	147	167	200	223
80	50	78	114	130
90	8	33	67	82
100	62	82	108	116
110	193	203	226	224
120	356	365	378	386
130	539	547	555	556
140	719	728	732	733
150	889	890	892	903
160	1025	1009	1011	1021
170	1114	1111	1092	1111
180	1136	1136	1136	1136

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	7978	3639	3026
55	6725	2691	2264
65	5152	1856	1578
75	3288	1211	1056
85	1595	704	665

Optics Up: **Meta Ice**
 Optics Down: **Meta Ice**
 IES File: **RM2DU-2L35K-4-MM-L3**
 Lumens: **1404/ft** Wattage: **12.1/ft**
 Efficacy: **116**

PHOTOMETRIC CURVE
 53% Up
 47% Down



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	426	7.6
0-30	880	15.6
0-40	1392	24.7
0-60	2263	40.2
0-80	2645	47
0-90	2675	47.5
10-90	2562	45.5
20-40	966	17.2
20-50	1450	25.8
40-70	1128	20.1
60-80	381	6.8
70-80	125	2.2
80-90	30	0.5
90-110	165	2.9
90-120	454	8.1
90-130	892	15.9
90-150	1995	35.5
90-180	2951	52.5
110-180	2786	49.5
0-180	5626	100

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	

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle			
	0	22.5	45	67.5
0	1229	1229	1229	1229
10	1167	1153	1198	1137
20	1047	1063	1055	1046
30	928	917	910	886
40	767	750	727	703
50	570	552	529	496
60	374	364	342	315
70	199	199	182	164
80	70	69	60	54
90	5	4	3	4
100	67	67	65	61
110	214	210	201	197
120	403	400	389	378
130	612	601	592	584
140	810	811	807	803
150	1006	1006	997	979
160	1132	1137	1136	1155
170	1238	1277	1241	1244
180	1303	1303	1303	1303

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