

RAIL 2 RM2D

LED . RECESSED . DIRECT



- 3/4" drop lens with seamless lines of light without pixels or shadows
- Integral drivers
- Option for daylight harvesting, occupancy sensing, dimming control and emergency lighting



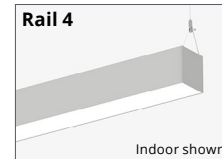
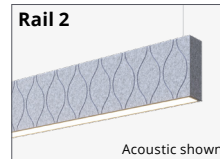
PART #:	
PREP BY:	DATE:
PROJECT:	QTY:
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 3500K

		Meta Blanc (MB)	Meta Ice (M)	Drop Lens (MD)	Meta Asym. (MA)
		L3	L3	L3	L3
Lumens per foot	80 CRI	595	671	624	660
	90 CRI	521	587	546	578
Wattage per foot		6.0			
Efficacy (LPW)	80 CRI	98	111	103	109
	90 CRI	87	98	91	96
L70 Estimate (h)		≥ 60,000 hrs			

See page 2 for the complete Light Level Performance chart.

OTHER RAIL PRODUCTS



ORDERING LOGIC

Example Part Number: RM2D-1L35K-12-MB-W-L31-D-1-DW-90

RM2D													
1	2	3	4	5	6	7	8	9	10	11	12	13	
1. SERIES RM2D													
2. COLOR TEMP 1L30K 3000K 1L35K 3500K 1L40K 4000K													
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 selected on p3 C Custom Length* - None (leave space empty)													
4. PATTERN ¹ GA Square GAxB Rectangle UAxBxC U-Shape LAxB L-Shape C Custom Pattern* - None (leave space empty) Standard Patterns Minimal Lengths Custom Patterns* Lengths and a drawing of custom pattern are required on page 3 Select corner: <input type="checkbox"/> Outside 90° <input type="checkbox"/> Inside 90° 													
5. OPTICS MB Meta Blanc M Meta Ice MD Drop Lens ** MA Meta Asymmetric Meta Blanc & Drop Lens: Opal diffuse lens Meta Ice & Meta Asymmetric: High output semi-diffuse lens													
6. FINISH SA Satin Aluminum W White B Black C Custom Finish Specify RAL:													
7. LIGHT LEVEL / DRIVER L1 L2^B L3^B L4^B LX Enter desired lm/ft:													
8. CIRCUITRY 1 1 Circuit EM Emergency / Night Light B Emergency Battery Pack ²													
9. RECESSED MOUNTING D Drywall Flanged DF Drywall Flangeless (Threaded Rod) SC Specialty Ceiling (Threaded Rod Flanged) T T-Bar (Suitable for 15/16" & 9/16" T-Bar)													
10. VOLTAGE 1 120 V 2 277 V 3 347 V (Consult factory) 4 UNV (120 - 277V)													
11. SENSORS Tap to view Sensors and Controls Reference Guide 													
12. CONTROLS													
13. OPTIONS 90 90 CRI, High R9 BS BIOS Static BD BIOS Dynamic - None (leave space empty)													

*Consult factory. | **Drop lens is not available with patterns. | ¹ Pattern approval drawings showing mounting locations will be sent out upon order. | ² Battery operates 4ft sections only. | ^B Available with BIOS

Select Driver:

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

LIGHT LEVEL PERFORMANCE & PHOTOMETRIC DATA

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

		Meta Blanc (MB)			Meta Ice (M)			Drop Lens (MD)			Meta Asymmetric (MA)		
Light Level		Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)
L1		350	3.5	101	408	3.5	118	367	3.5	104	401	3.5	116
L2		438	4.4	99	503	4.4	114	459	4.4	103	495	4.4	112
L3		595	6.0	98	671	6.0	111	624	6.0	103	660	6.0	109
L4		1105	12.1	91	1236	12.1	102	1158	12.5	92	1079	10.6	102
Light Level L3	IES File	RM2D-1L35K-4-MB-L3			RM2D-1L35K-4-M-L3			RM2D-1L35K-4-MD-L3			RM2D-1L35K-4-MA-L3		
	Distribution % (Down / Up)	100 / 0			100 / 0			92 / 8			100 / 0		
	Zonal Lumens (0-90 / 90-180)	2385 / 0			2689 / 0			2305 / 194			2645 / 0		
	Distribution Curve												
Photometric performance is measured and scaled in accordance with IESNA LM-79. Metalumen's light level performance metrics are subject to manufacturers component tolerances.													

Lumen Adjustment Factor (Standard)

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

BIOS 3500K

		Meta Blanc (MB)			Meta Ice (M)			Drop Lens (MD)			Meta Asymmetric (MA)		
		Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)
Distribution % (Up/Down)		0 / 100			0 / 100			6 / 94			0 / 100		
Static	L2	582	9.4	62	646	9.4	69	640	9.4	68	633	9.4	67
	L3	775	13.3	58	861	13.3	65	853	13.3	64	844	13.3	63
	L4	947	17.2	55	1052	17.2	61	1042	17.2	61	947	17.2	55
Dynamic	L2	523	9.4	55	582	9.4	62	576	9.4	61	570	9.4	61
	L3	697	13.3	52	775	13.3	58	768	13.3	58	760	13.3	57
	L4	852	17.2	50	947	17.2	55	938	17.2	55	852	17.2	50
R9		≥ 90											
COI**		< 3.3											
EML or M/P*		0.8											

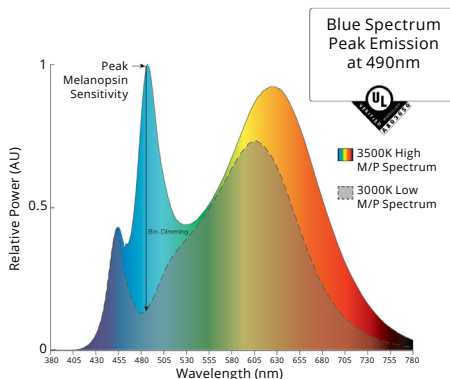
* EML or M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P). BIOS provides the following m/p values: 3000K = 0.7, 3500K = 0.8, 4000K = 0.9. ** COI - Cyanosis Observation Index.

BIOS Naming Convention Reference




BIOS Static	3500K	35BIOSST
	4000K	40BIOSST
BIOS Dynamic	3500K	35BIOSDY
	4000K	40BIOSDY

BIOS | Lumen Adjustment Factor (LAF)

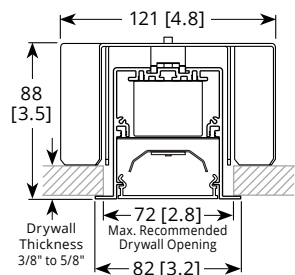
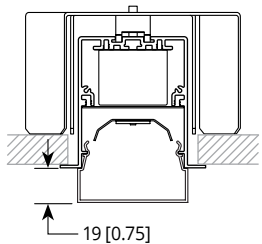
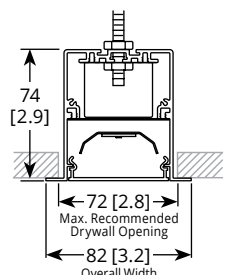
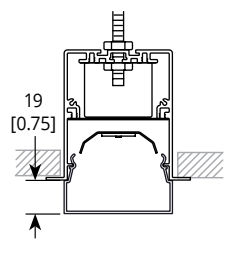
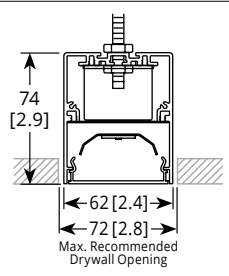
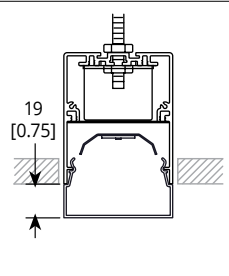
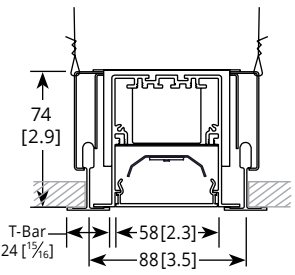
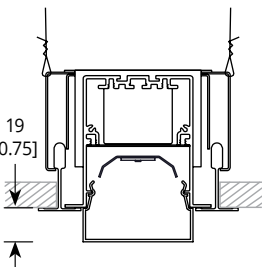
Color Temp	LAF
3500K	1.00
4000K	1.05



WIRING

Standard	Emergency / Night Light	Emergency Battery Pack
 <p> BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - CAPPED/SW LEAD VIOLET - DIM(+) PINK - 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

	Meta Blanc, Meta Ice, Meta Asymmetric	Drop Lens
Drywall Flanged		
Specialty Ceiling (Threaded Rod Flanged)		
Drywall Flangeless (Threaded Rod)		
T-Bar		

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. Zinc alloy die-cast 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.

BIOS LED: BIOS SkyBlue® solutions have a peak wavelength at 490nm to provide an enhanced spectrum with high M/P (melanopic to photopic) ratios while also providing a low Cyanosis Observation Index (COI), making it ideally suited for Healthcare and Healthy Lighting projects. BIOS® SkyBlue® lighting solutions also contribute to satisfying Circadian Lighting Design Feature for WELL Building Standard v1 and v2. BIOS is not suitable for insulated ceilings.

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.

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

Mounting: *Flanged* - Mounting brackets provided.

Flangeless & Specialty Ceiling - Holes on extrusion for threaded rods (by others). *T-bar* - Mounting brackets/clips provided. Fits 9/16" and 15/16" T-bar.

Electrical: Factory prewired with easy wire quick connect sections.

Drivers: Metalumen offers 0-10V dimming* as a standard on our entire LED product offering. Dimming range is 1%-100%. Power factor is > 90%. Class 2 rating. Drivers are integral.

Approvals: This product is cULus listed. All components are UL/CSA/QPS recognized or listed. RoHS compliant.

Environment: Suitable for dry or damp locations.

**Standard drivers compatible with passive/sinking dimmers. Please contact Metalumen if active/sourcing dimmer support is required.*

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.