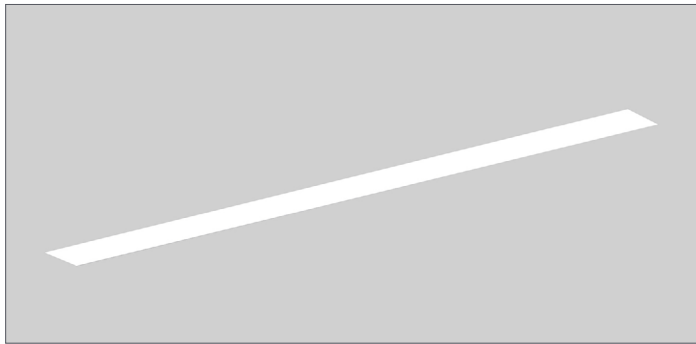


# RAIL 4 RM4D

LED . RECESSED DRYWALL FLANGELESS . DIRECT



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

PERFORMANCE SUMMARY @ 3500K

		Meta Blanc (MB)	Meta Ice (M)	Drop Lens (MD)
		L3	L3	L3
Lumens per foot	80 CRI	596	662	608
	90 CRI	522	579	532
Wattage per foot		6.1	6.1	6.1
Efficacy (lm/W)	80 CRI	99	109	100
	90 CRI	85	95	87
L70 Estimate (h)		≥ 60,000 hrs		

See page 2 for the complete Light Level Performance chart.

## FEATURES

- Efficacy up to 111 Lm/W
- 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

## ORDERING LOGIC

Example Part Number: RM4D-1L35K-12-MB-W-L31-DF-1-D-90

RM4D												DF											
1		2		3		4		5		6		7		8		9		10		11		12	
<b>1. SERIES</b> RM4D		<b>2. COLOR TEMP</b> 1L30K 3000K 1L35K 3500K 1L40K 4000K		<b>3. LENGTH</b> 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 p2 C Custom Length* - None (leave space empty)		<b>4. PATTERN</b> <sup>1</sup> GA Square GAxB Rectangle UAxBxC U-Shape LAxB L-Shape C Custom Pattern* - None (leave space empty) <b>Standard Patterns Minimum Lengths</b>  Square: A=4ft min. Rectangle: A=4ft min, B=4ft min. U-Shape: A=3ft min, B=4ft min, C=3ft min. L-Shape: A=3ft min, B=3ft min. <b>Custom Patterns*</b> Lengths and a drawing of custom pattern are required on page 3  <b>Select corner:</b> <input type="checkbox"/> Outside 90° <input type="checkbox"/> Inside 90°						<b>5. OPTICS</b> MB Meta Blanc M Meta Ice MD Drop Lens **  Meta Blanc & Drop Lens: Opal diffuse lens Meta Ice: High output semi-diffuse lens		<b>6. FINISH</b> SA Satin Aluminum W White B Black C Custom Finish Specify RAL:									
<b>7. LIGHT LEVEL / DRIVER</b> L1 Select Driver below. L2 See Light Level Performance chart on p2. L3 L4		<b>8. CIRCUITRY</b> 1 1 Circuit EM Emergency / Night Light B Emergency Battery Pack <sup>2</sup>		<b>9. MOUNTING</b> DF Recessed Drywall Flangeless		<b>10. VOLTAGE</b> 1 120 V 2 277 V 3 347 V 4 UNV (120 - 277V)		<b>11. CONTROLS / SENSORS</b> - None (leave space empty) D Wattstopper Daylight Sensor O Wattstopper Occupancy Sensor DO Wattstopper Daylight and Occupancy Sensor		<b>12. OPTIONS</b> 90 90 CRI, High R9 P Plenum - None (leave space empty)													

\*Consult factory. | \*\* Drop lens is not available with patterns. | <sup>1</sup> Pattern record drawings showing mounting locations will be sent out upon order. | <sup>2</sup> Battery operates 4ft sections only.

### Select Driver:

- Factory option 0-10V, 10% Dimming (Standard)
- Factory option 0-10V, 1% Dimming
- LHE Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- LA2 Lutron A-Series Hi-lume 1% 2-wire LED Driver
- L5E Lutron 5-Series EcoSystem LED Driver

Light Level Performance | 3500K, 80 CRI, 0-10V Dimming (Standard)

Optics	Meta Blanc (MB)			Meta Ice (M)			Drop Lens (MD)		
	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	350	3.5	100	389	3.5	111	357	3.5	102
L2	439	4.4	99	487	4.4	110	447	4.4	101
L3	596	6.1	99	662	6.1	109	608	6.0	100
L4	1106	12.5	89	1232	12.5	99	1127	12.5	90

Metalumen's light level performance metrics are subject to manufacturers component tolerances.

Lumen Adjustment Factor

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

CONTINUOUS ROWS

Step 1) Indicate desired quantity of rows under the QTY column

Step 2)  Pods  If applicable, select pod(s) per row to indicate desired Emergency lighting location. If a similar row requires a different Emergency lighting location, please fill out another sheet.

Record drawings for rows not represented here will be sent out upon order.

QTY	Nominal Length	Max. Recommended Length Drywall Opening (Max. Rec. Width = 105mm)	Alone / Start Length	Mid Length(s)	End Length	ROWS IN PLAN VIEW	
						Rows are for demonstration purposes only and are not to scale.	
4'	1235 [48.6]	4			1225 [48.2]		
8'	2452 [96.5]	8			2442 [96.1]		
12'	3671 [144.5]	12			3661 [144.1]		
16'	4891 [192.6]	8	8		4881 [192.2]		
20'	6110 [240.6]	12	8		6100 [240.2]		
24'	7329 [288.5]	12	12		7319 [288.1]		
28'	8548 [336.5]	8	12	8	8538 [336.1]		
32'	9767 [384.5]	12	8	12	9757 [384.1]		
36'	10987 [432.6]	12	12	12	10977 [432.2]		
40'	12206 [480.6]	12	8, 8	12	12196 [480.2]		
44'	13425 [528.5]	12	12, 8	12	13415 [528.1]		
48'	14644 [576.5]	12	12, 12	12	14634 [576.1]		

**LEGEND**

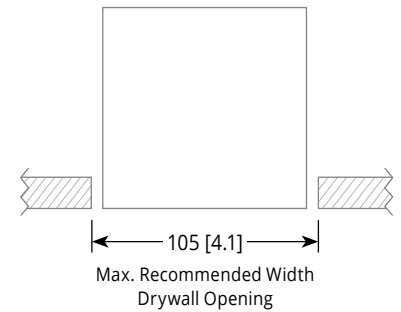
- Standard (STD) Wire Entry Location (located on the end cap)
- Emergency (EM) / Night Light Location (4 ft sections)
- EM or Battery Wire Entry Location (EM wire entry is on the end cap)

**A**

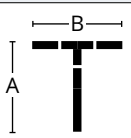
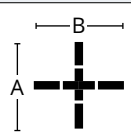
A = Run Length (Body)

EM / Night Light and EM or Battery Wire Entry location in relation to pod selections:

Example 20 ft run



PATTERNS

Select Pattern:	T-SHAPE (C)	X / CROSS (C)
Pattern Configuration		
Indicate Desired Lengths (ft)	A = B =	A = B =
Minimum Lengths	A = 3 ft B = 6 ft	A = 6 ft B = 6 ft

**A pattern configuration drawing is required in the grid below**

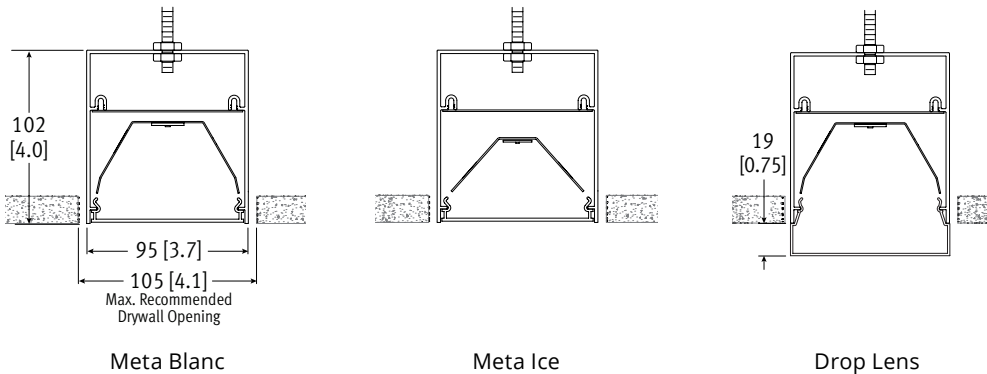
Record drawings will be sent out upon order showing mounting locations.



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



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 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.  
**Weight:** 2.1 kg/300mm [ 4.6 lb/ft ]  
**Mounting:** Mounting brackets provided.  
**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:** Certified to NRTL and IES testing standards. This product is cULus listed. RoHS compliant. Plenum - CCEA approved.  
**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.

