RAIL 4 RM4D

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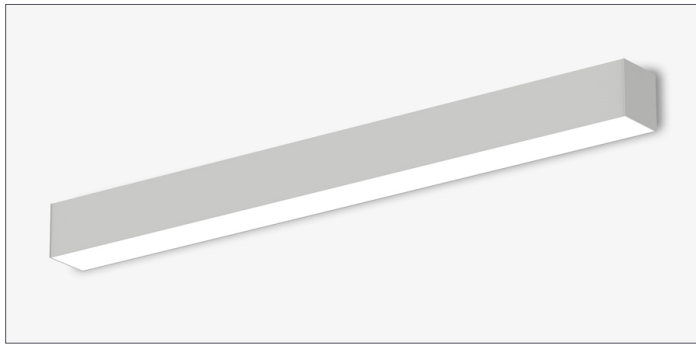
PART #:	
PREP BY:	DATE:
PROJECT:	QTY:
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 4000K

		Meta Blanc (MB)	Drop Lens (MD)
		L3	L3
Lumens per foot	80 CRI	547	577
	90 CRI	481	507
Wattage per foot		6.2	
Efficacy	80 CRI	88	93
	90 CRI	77	81
L70 Estimate (h)		>60,000 hrs	

See page 2 for the complete Light Level Performance chart.

FEATURES

- Independant control of intensity and correlated color temperature (CCT)
- Allows for scheduled mimicking of daylight color temperatures
- Dim-to-Warm simulates warmer CCT shift as luminaire dims (i.e. like traditional incandescent and halogen lights).

ORDERING LOGIC

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

RM4D							W			
1	2	3	4	5	6	7	8	9	10	11

1. SERIES
RM4D

2. COLOR TEMP
1LTUN Tunable White (2700 - 6500K)
1LDW Dim to Warm* (3500 - 2700K)

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 selected in the Continuous Rows section

4. OPTICS
MB Meta Blanc
MD Drop Lens

Meta Blanc, Drop Lens: Opal diffuse lens

5. FINISH
SA Satin Aluminum
W White
B Black
C Custom Finish
Specify RAL:

6. LIGHT LEVEL / DRIVER
L1
L2
L3
L4

Select Driver below.
See Light Level Performance chart below.

7. CIRCUITRY
1 1 Circuit
EM Emergency / Night Light [1]
B Emergency Battery Pack [2]

8. MOUNTING
W Wall

9. VOLTAGE
1 120 V
2 277 V
4 UNV (120 - 277V)

10. CONTROLS / SENSORS
_ None (leave space empty)
D Daylight Sensor**
O Occupancy Sensor**
DO Daylight and Occupancy Sensors**

11. OPTIONS
90 90 CRI, High R9
_ None (leave space empty)

PLEASE NOTE
Dim to Warm is not available with integrated sensors.
Tunable White and Dim to Warm are availabe with emergency battery packs connected to the cool color LEDs only.

* Consult factory for alternate options. | ** Controls intensity only (not CCT). | [1] Each EM pod, by default, has separate wire entry for DIM and CCT control. | [2] Battery operates 4ft sections only.

Select Driver:

- ☐ Factory option dual 0-10V (Dim & CCT), 1% Dimming
- ☐ Lutron T Series EcoSystem, 1% Dimming
- ☐ DALI - Factory Option, DT6 Dual Address, 1% Dimming
- ☐ DALI - Factory Option, DT8 Single Address Color Control, 1% Dimming
- ☐ DALI - EldoLED

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Light Level Performance at 4000K

Meta Blanc (MB)

		2700K				4000K				6500K			
		L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4
Total Lumens / foot (lm) 0% Up / 100% Down	80 CRI	297	374	502	694	323	407	547	789	327	411	551	779
	90 CRI	261	329	441	610	284	358	481	693	287	361	484	685
Wattage per foot		3.9	4.8	6.5	9.7	3.8	4.7	6.2	9.1	3.9	4.9	6.6	10.1
Efficacy (lm/W)	80 CRI	77	78	77	72	84	87	88	86	83	84	83	77
	90 CRI	67	68	68	63	74	76	77	76	73	74	73	68
Color Rendering (CRI)	80 CRI	80+											
	90 CRI	90+											
L70 Estimate @ 25°C Ambient		> 60,000 hrs											

Drop Lens (MD)

		2700K				4000K				6500K			
		L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4
Total Lumens / foot (lm) 8% Up / 92% Down	80 CRI	314	395	527	731	341	429	577	830	346	434	578	813
	90 CRI	276	347	463	643	300	377	507	729	304	381	508	715
Wattage per foot		3.9	4.8	6.5	9.7	3.8	4.7	6.2	9.1	3.9	4.9	6.6	10.1
Efficacy (lm/W)	80 CRI	81	82	81	76	89	92	93	91	88	89	87	81
	90 CRI	71	72	71	66	78	81	81	80	77	78	77	71
Color Rendering (CRI)	80 CRI	80+											
	90 CRI	90+											
L70 Estimate @ 25°C Ambient		> 60,000 hrs											

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

WIRING

Emergency / Night Light
- BLACK - LINE
- WHITE - NEUTRAL
- GREEN - GROUND
- RED - CAP OFF

Emergency Battery Pack
- BLACK - LINE
- WHITE - NEUTRAL
- GREEN - GROUND
- RED - UNSWITCHED HOT

Luminaire with Integral Driver
Line Voltage / Control to Luminaire

Hard Wire

(7) Leads
- BLACK - LINE
- WHITE - NEUTRAL
- BARE - GROUND
- VIOLET - DIM (+)
- PINK - DIM (−)
- VIOLET - CCT MIX (+)
- PINK - CCT MIX (−)

Power Cord

(18-6)
- BLACK - LINE
- WHITE - NEUTRAL
- GREEN - GROUND
- RED - CCT MIX (+)
- VIOLET - DIM (+)
- PINK - DIM (−) / CCT MIX (−)

VIOLET - DIM (+)
Not available with fixture integrated occupancy or daylight sensor option.

Luminaire with Remote Driver (BB Box)
Line Voltage / Control to Remote Driver (BB Box)

Hard Wire

(7) Leads
- BLACK - LINE
- WHITE - NEUTRAL
- BARE - GROUND
- VIOLET - DIM (+)
- PINK - DIM (−)
- VIOLET - CCT MIX (+)
- PINK - CCT MIX (−)

Power Cord

(18-6)
- BLACK - LINE
- WHITE - NEUTRAL
- GREEN - GROUND
- RED - CCT MIX (+)
- VIOLET - DIM (+)
- PINK - DIM (−) / CCT MIX (−)

Remote Driver (BB Box) to Luminaire

Hard Wire

REMOTE DRIVER
- RED - LED1 +
- BLUE - LED1 −
- RED - LED2 +
- BLUE - LED2 −
- BARE - GROUND

Cord

(18-5)
- BLACK - LED1 −
- WHITE - LED1 +
- GREEN - GROUND
- VIOLET - LED2 +
- PINK - LED2 −

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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.

LEGEND

■ Standard (STD) Wire Entry Location
(located on back of fixture either: 231 mm from end cap, or 229 mm from end of extrusion without end cap)

■ Emergency (EM) / Night Light Location
(4 ft sections)

▨ EM Wire Entry or Battery Pack Location
(located 231 mm from end on back of fixture, except on the 4' alone).
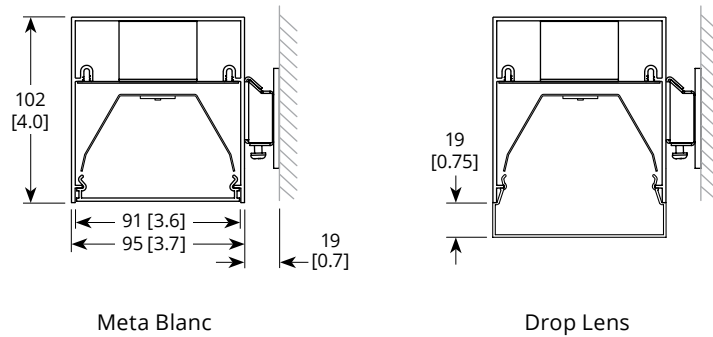
⌐ ← Wall bracket

● = 231 [9.1] Distance between end-cap and bracket
▲ = 458 [18.0] Distance between brackets at joiners
A = Distance between brackets
B = Extrusion lengths (includes end-caps)

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

Example 20 ft run

ROWS IN PLAN VIEW
Rows are for demonstration purposes only and are not to scale.

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

4' 764 [30.1] — 1225 [48.2]

8' 1981 [78.0] — 2442 [96.1]

12' 1600 [63.0] 1600 [63.0] — 3661 [144.1]

16' 1981 [78.0] 1981 [78.0] — 2440 [96.0] 2440 [96.0]

20' 1600 [63.0] 1600 [63.0] 1981 [78.0] — 3660 [144.1] 2440 [96.0]

24' 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 3660 [144.1]

28' 1981 [78.0] 1600 [63.0] 1600 [63.0] 1981 [78.0] — 2440 [96.0] 3658 [144.0] 2440 [96.0]

32' 1600 [63.0] 1600 [63.0] 1981 [78.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 2348 [96.0] 3660 [144.1]

36' 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 3658 [144.0] 3660 [144.1]

40' 1600 [63.0] 1600 [63.0] 1981 [78.0] 1981 [78.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 2348 [96.0] 2348 [96.0] 3660 [144.1]

44' 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1981 [78.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 3658 [144.0] 2348 [96.0] 3660 [144.1]

48' 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] 1600 [63.0] — 3660 [144.1] 3658 [144.0] 3658 [144.0] 3660 [144.1]

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CROSS SECTIONS

Meta Blanc

Drop Lens

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: 80+ for all color temperature ranges.

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 and white are standard finishes. For custom finish, contact factory.
Weight: 1.3 kg/300 mm [2.9 lb/ft]

Mounting: Mounting plate 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.
Approvals: Certified to NRTL and IES testing standards. This product is cULus 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.

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