RAIL 4 RM4D LED . WALL . DIRECT

Integral drivers

emergency lighting

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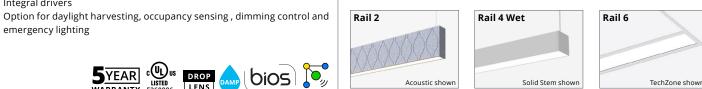
• 3/4" drop lens with seamless lines of light without pixels or shadows

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

PERFORMANCE SUMMARY		Meta Blanc	Meta Ice	Drop Lens	Luma Span	Luma Asym.		
		L3	L3	L3	L3	L3		
Lumens per foot	80 CRI	596	662	608	697	723		
Lumens per root	90 CRI	522	579	532	609	632		
Wattage per foot	6.1	6.1	6.1	5.8	5.8			
Efficacy	80 CRI	99	109	100	121	125		
Efficacy	90 CRI	85	95	87	105	109		
L70 Estimate (h)		≥ 60.000 hrs						

See complete Light Level Performance and Photometric Data on p2

## **OTHER RAIL PRODUCTS**



	5YEAR WARRANT		DROP LENS		2	Acoustic shown		Solid Stem sh	own	TechZone shown
ORDE	RING LOGIC					Exam	ple Pa	rt Number: RM4D-	1L3	5K-12-MB-W-L31-W-1-DW-90
RM4D						w				
1	2 3	4	L.	5 6	7	8 9	9	10	11	12
1. SERIES RM4D	2. COLOR TEMP 1L30K 3000K 1L35K 3500K 1L40K 4000K 90 CRI is available under OPTIONS BIOS is available under OPTIONS. See p2 for BI Naming Convention Re	.r OS	<b>C</b> Custom	" with length in feet selected on p	3	4. OPTICS MB Meta Blanc M Meta Ice MD Drop Lens** LS Luma Span (Batw LA Luma Asymmetr Select throw direction Away from wall Towards the wall MB, MD: Opal diffuse lens M, LS, LA: High output s diffuse lens See Photometric Data	ns eemi-	5. FINISH SA Satin Aluminu W White B Black C Custom Finish Specify RAL:		6. LIGHT LEVEL / DRIVER L1 <sup>2</sup> L2 L3 L4 Select Driver below. See Light Level Performance and Photometric Data on p2 LX Enter desired Im/ft:
7. CIRCUITRY     8. MOUNTING     9. VOLTAGE       1 1 Circuit     W Wall     1 120 V       EM Emergency / Night Light     W Wall     2 277 V       B Emergency Battery Pack <sup>1</sup> 3 347 V       4 UNV (120 - 277 V)		1 120 V 2 277 V	1				90 90 CRI, High R9 BIOS Static			

\*Consult factory. | \*\* Drop lens is not available with patterns. | 1 Battery operates 4ft sections only. | 2 Not available with BIOS.

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

LSE Lutron 5-Series EcoSystem LED Driver



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## LIGHT LEVEL PERFORMANCE & PHOTOMETRIC DATA

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

		Meta Blanc (MB) Meta Ice (M)		Drop Lens (MD)			Lur	ma Span (	LS)	Luma Asymmetric (LA)						
	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)	Lumens per foot	Wattage per foot	Efficacy (LPW)
	L1	350	3.5	100	389	3.5	111	357	3.5	102	417	3.3	126	432	3.3	131
	L2	439	4.4	99	487	4.4	110	447	4.4	101	521	4.3	121	539	4.3	125
	L3	596	6.1	99	662	6.1	109	608	6.0	101	697	5.8	121	723	5.8	125
	L4	1106	12.5	89	1232	12.5	99	1127	12.5	90	1277	11.9	108	1325	11.9	112
	IES File	RM4D	-1L35K-4-	MB-L3	RM4D	RM4D-1L35K-4-M-L3		RM4D-1L35K-4-MD-L3		RM4D-1L35K-4-LS-L3			RM4D-1L35K-4-LA-L3			
	Distribution % (Down / Up)		100 / 0		100 / 0		94 / 6		100 / 0			100 / 0				
IL3	(0-90/90-180)		2386 / 0		2649 / 0		2296 / 137		2787 / 0			2892 / 0				
Light Level	Distribution Curve															

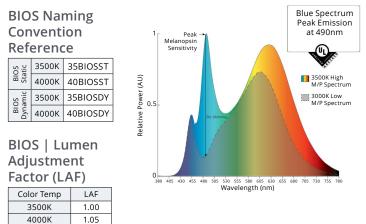
#### Lumen Adjustment Factor (Standard)

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

## **BIOS PERFORMANCE**

					-						
3500K		Meta Blanc (MB)			M	eta lce (N	v1)	Drop Lens (MD)			
		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			
	L2	590	9.4	63	656	9.4	70	622	9.4	66	
Static	L3	787	13.3	59	875	13.3	66	829	13.3	62	
	L4	957	17.2	56	1063	17.2	62	1007	17.2	59	
	L2	531	9.4	56	590	9.4	63	559	9.4	59	
Dynamic	L3	708	13.3	53	787	13.3	59	746	13.3	56	
	L4	861	17.2	50	957	17.2	56	907	17.2	53	
R9			≥ 90								
COI**						< 3.3					
EML or N	//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.



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

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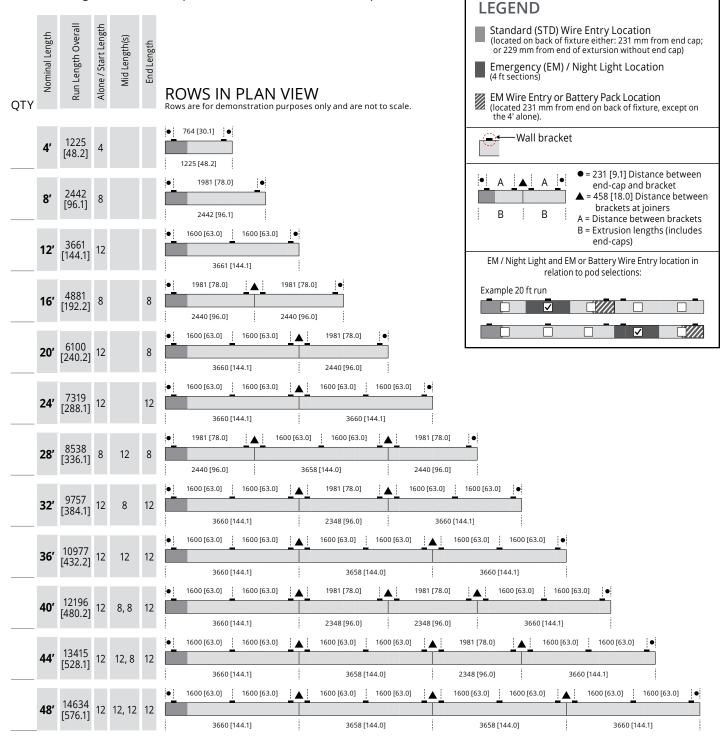
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## CONTINUOUS ROWS

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

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

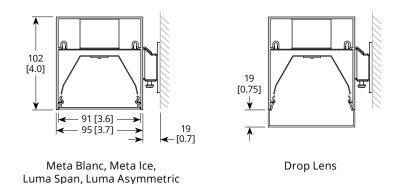
Record drawings for rows not represented here will be sent out upon order.



#### WIRING

Standard	Emergency / Night Light	Emergency Battery Pack
BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - CAPPED/SW LEAD VIOLET - DIM(+) PINK - DIM(-)	BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - CAP OFF	BLACK - LINE WHITE - NEUTRAL GREEN - GROUND RED - UNSWITCHED HOT

## 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. Zinc alloy die-cast end caps. Cyanosis Observation Index (COI), 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 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. 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: 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. Drivers are integral. 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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## SENSORS AND CONTROLS



Metalumen offers intelligent standalone and/or connected luminaires with various integrated sensing and control system\* connectivity options. The table below outlines some of the more common combinations and solutions offered. If you do not see the controls solution or the type of sensing technology you require for your project please contact us and we will work with you to try and identify a solution to meet your needs.

\*Control system, installation and commissioning provided by others.

Examples:

WattStopper Daylight Sensor Standalone Luminaire: RM4D-1L35K-12-MB-W-L31-W-1-**DW**-90 Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: RM4D-1L35K-12-MB-W-L31-W-1-**O-CAB**-90

ORDER LOGIC FIELDS		SENSOR FEATURE / BEHAVIOR								
11. SENSORS		12. CONTROLS	OCCUPANCY (PIR)	DAYLIGHT HARVESTING	LUMINAIRE CONTROL / CONNECTIVITY	DESCRIPTION				
OF	-		je A	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App				
ow	-		en e	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor				
DW	-		None	Č.	Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor				
ODW	-		e k		Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors				
o	-	САВ	No. Contraction of the second	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing				
OD	-	САВ	je K		Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Daylight Harvesting and Occupancy Sensing				
	-	САВ	None	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity (no sensors)				
o	-	SLVR	e k	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing				
OD	-	SLVR	le se		Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Daylight Harvesting and Occupancy Sensing				
	-	SLVR	None	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity (no sensors)				
	-	OSRM	None	None	Osram Encelium	Osram Encelium connectivity				
OD	-	OSRM	en e		Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting				
OD	-	ENL	بلا س	تقتی	Enlighted ONE	Occupancy and Daylight Harvesting Capable Supports EnlightedONE room control as well and upgrade path for Enlighted Connected and Enlighted IoT offering advanced applications, analytics and insights for Space Utilization/Optimization, Asset Tracking, Energy Monitoring, HVAC Integration etc				
	-	DALI	None	None	DALI addressable wired Luminaire	Generic DALI addressable luminaire				
	-	ECOS	None	None	Lutron Ecosystem	Lutron Ecosystem addressable wired luminaire NOTE: See Driver Selection options for specific driver				











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