RAIL 4 RM4D

SURFACE. DIRECT





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

PERFORMANCE SUMMARY			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 100t	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

- 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





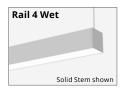






OTHER RAIL PRODUCTS







OPDEDING LOGIC Example Part Number: RM4D-1L35K-12-MB-W-L31-S-1-DW-90

OKDEKING EOGIC								Example Full Number: Nin 15 1255K 12 III5 W 251 5 1 5W 30				
RM4D								s				
1	2	3	4	5	6	7	8	9	10	11	12	13

1	2 3	4 5	6	7 8	9	10	11	12	13
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 BIOS Naming Convention Reference	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 Row Replace "A" with leng selected on p2 C Custom Length? None (leave space	Stand A J Stand A Length in feet		A U U Shape A 3ftmin. B = 4ftmin. C = 3ftmin. Select corner: Outside 90° Inside 90°	MI MI L L MB M, Saftmin. Ser	OPTICS 3 Meta Blanc Meta Ice Dopo Lens ** Source Luma Span (I Luma Asymn MD: Opal diffu LS, LA: High ouni-diffuse lens Photometric D	Batwing) netric use lens ttput ata on p2	6. FINISH SA Satin Aluminum W White B Black C Custom Finish Specify RAL:
L2 L3 L4	Porformance and	rircuit nergency / Night Light nergency Battery Pack ²	S Surface	1 120 V 2 277 V 3 347 V 4 UNV (120 - 277 V)			ure integrated der Logic codes	B	90 CRI, High R9 BIOS Static 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. | 3 Not available with BIOS.

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 & PHOTOMETRIC DATA

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

	Meta Blanc (MB)		Meta Ice (M)		Drop Lens (MD)		Lur	na 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-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					
- FT	Zonal Lumens (0-90 / 90-180)		2386/0			2649 / 0		2296 / 137 2787 / 0			2892 / 0					
Light Level	Distribution Curve		1135 84 549 245			120			183 783 514 747		100			120		

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)			Meta Ice (M)			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	R9		≥ 90							
COI*	COI**		< 3.3							
EML or N	Л/Р*					0.8				

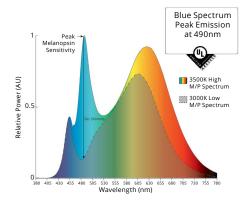
^{*}EML or M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P). BIOS provides the following m/p values: 3000K = 0.7, 3500K = 0.8, 4000K = 0.9. ** COI - Cyanosis Observation Index.

BIOS Naming Convention Reference

OS tic	3500K	35BIOSST
Bl	4000K	40BIOSST
OS amic	3500K	35BIOSDY
BIG Dyna	4000K	40BIOSDY

BIOS | Lumen Adjustment Factor (LAF)

	,
Color Temp	LAF
3500K	1.00
4000K	1.05



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

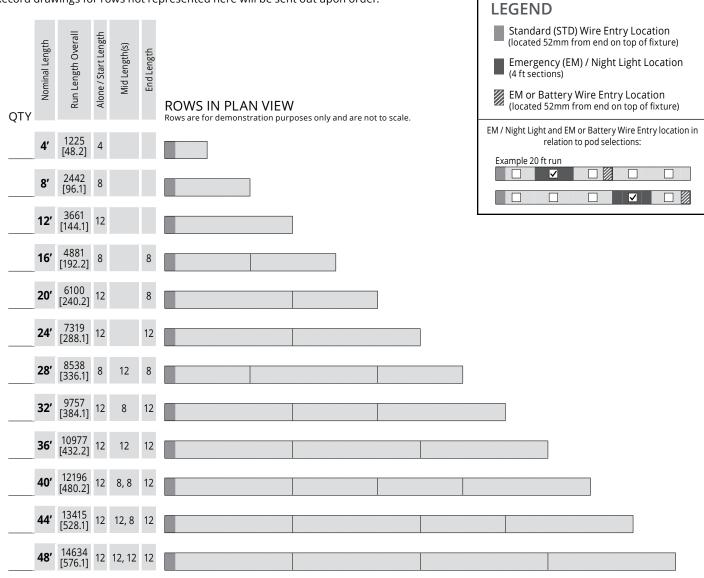


CONTINUOUS ROWS

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.



PATTERNS

Select Pattern:	T-SHAPE (C)	CROSS / X-SHAPE (C)	WALL-TO-CEILING (C)
Pattern Configuration	B	⊢—B—⊣ A —— —	WALL CEITING
Indicate Desired Lengths (ft)	A = B =	A = B =	A = B =
Minimum Lengths	A = 3 ft B = 6 ft	A = 6 ft B = 6 ft	A = 3 ft B = 3 ft

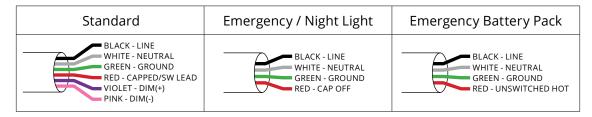
A custom pattern configuration drawing is required in the grid below

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

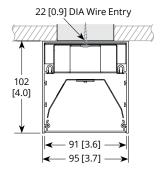




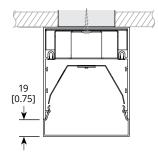
WIRING



CROSS SECTIONS



Meta Blanc, Meta Ice, Luma Span, Luma Asymmetric



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. 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. 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: Surface ceiling mount. 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

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



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.

Examples:

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

ORDER	ORDER LOGIC FIELDS		SENSOR FEATURE / BEHAVIOR		LUMINIAIDE CONTROL /	
11. SENSORS		12. CONTROLS	OCCUPANCY (PIR)	DAYLIGHT HARVESTING	LUMINAIRE CONTROL / CONNECTIVITY	DESCRIPTION
OF	-			None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App
ow	-		Ž.	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor
DW	-		None		Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor
ODW	-		S. S	Č.	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors
0	-	САВ		None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	САВ	Ž.	Č	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)
0	-	SLVR	,	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	SLVR		Č	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		Č.	Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting
OD	-	ENL	%	Č	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



















 $[\]hbox{$\star$Control system, installation and commissioning provided by others.}$