RAIL 4 RM4D PENDANT . DIRECT

Integral drivers

emergency lighting



Option for daylight harvesting, occupancy sensing, dimming control and

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

PERFORMANCE SUMMARY		Meta Blanc	Meta Ice	Drop Lens	Luma Span	Luma Asym.
		L3	L3	L3	L3	L3
Lumons par 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
Enicacy	90 CRI	85	95	87	105	109
L70 Estimate (h)				≥ 60,000 ł	nrs	

See complete Light Level Performance and Photometric Data on p2

OTHER RAIL PRODUCTS





bios

*Consult factory. | ** Drop lens is not available with patterns. | 1 Pattern record 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

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Select Aircraft Cable Length:

Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated. If no selection is made, 48" will be supplied.

Select	Imperial (in)	Metric (mm)	Select:	Imperial (in)	Metric (mm)		Select:	Imperial (in)	Metric (mm)
	12	305		42	1067			96	2440
	18	460		48	1220			120	3050
	24	610		54	1372			144	3660
	30	760		60	1525				
	36	915		72	1830			Custom Length:	

Select Canopy Finish & Power Cord Color

Canopy		Power Cord
U White	Custom Finish	🗌 White
Black	RAL:	🗌 Black

Select Solid Stem Length - 1/2 OD Standard:

Standard supplied length is 18" (460mm). Hangers will be supplied at closest length. All other lengths are considered custom unless otherwise stated. If no selection is made, 48" will be supplied.

Select:	Imperial (in)	Metric (mm)		Select:	Imperial (in)	Metric (mm)	Select:	Imperial (in)	Metric (mm)
	12	305	[27	685		42	1067
	15	380			30	760	$\overline{\Box}$	45	1145
	18	460			33	840	\Box	48	1220
	21	533			36	915			-
	24	610			39	990		Custom Length:	

LIGHT LEVEL PERFORMANCE & PHOTOMETRIC DATA

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

		Met	a Blanc (MB)	М	eta lce (l	VI)	Dro	p Lens (l	MD)	Lun	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		
ы	Zonal Lumens (0–90 / 90–180)		2386 / 0 2649 / 0						296 / 13	7		2787/0)	2892 / 0			
Light Level	Distribution Curve		1183			1227 93.0 613 3377											

Lumen Adjustment Factor (Standard)

y			
	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	a Blanc (MB)	M	eta lce (N	A)	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)		
Distributi (Up/Dov	on % wn)		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.

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

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METALUMEN SPECIFICATION SHEET

CONTINUOUS ROWS

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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)
Pattern Configuration	⊢—B—⊣ ■₹™ 	
Indicate Desired Lengths (ft)	A = B =	A = B =
Minimum Lengths	A = 3 ft B = 6 ft	A = 6 ft B = 6 ft

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A custom pattern configuration drawing is required in the grid below

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

-		 			 			 	 		 			 	 	
					 			 		 		 	 		_	

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HANGER



Solid Stem



WIRING



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CROSS SECTIONS



Meta Blanc, Meta Ice,

Luma Span, Luma Asymmetric



Drop Lens



Solid Stem

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: Aircraft cable yoke complete with a Quick-Grip field adjustable suspension system provides for quick and easy onsite alignment. Stainless steel solid stem with a paint finish.

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:** 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.

*Control system, installation and commissioning provided by others.

Examples:

WattStopper Daylight Sensor Standalone Luminaire: RM4D-1L35K-12-MB-W-L31-PA18-1-**DW**-90 Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: RM4D-1L35K-12-MB-W-L31-PA18-1-**O-CAB**-90

ORDER LOGIC FIELDS			SENSOR FEAT	URE / BEHAVIOR							
11. SENSORS		12. CONTROLS	OCCUPANCY (PIR)	DAYLIGHT HARVESTING	CONNECTIVITY	DESCRIPTION					
OF	-		*	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App					
ow	-			None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor					
DW	-		None		Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor					
ODW	-		le l	<u> </u>	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors					
o	-	САВ	₩ A	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing					
OD	-	САВ	le l	<u> </u>	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	le l	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing					
OD	-	SLVR	₩. *		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	e k		Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting					
OD	-	ENL	en e	نقت	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					











UTRON





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