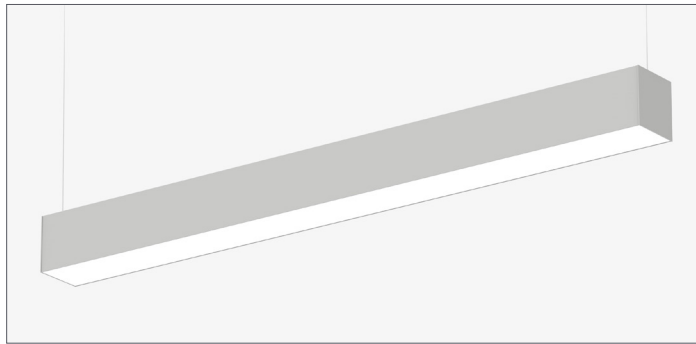


RAIL 4 RM4D

LED . PENDANT . DIRECT



- Optimized light control and lumen output with precision **Luma Optics™** available in batwing, asymmetric, and wall graze distributions
- Integral drivers
- Option for daylight harvesting, occupancy sensing, dimming control and emergency lighting



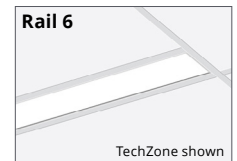
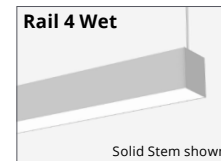
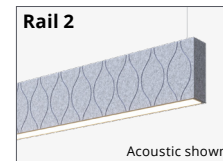
PART #:	
PREP BY:	DATE:
PROJECT:	QTY:
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY

PERFORMANCE SUMMARY		Meta Blanc	Drop Lens	Luma Span	Luma Asym.	Luma Graze	Polycarb.
		Light Level 3 (L3)					
Lumens per foot	80 CRI	596	608	697	723	719	Consult Factory
	90 CRI	522	532	609	632	629	
Wattage per foot		6.1	6.1	5.8	5.8	5.7	
Efficacy	80 CRI	99	100	121	125	125	
	90 CRI	85	87	105	109	110	
L70 Estimate (h)		≥ 60,000 hrs					

See complete Light Level Performance and Photometric Data on p2

OTHER RAIL PRODUCTS



ORDERING LOGIC

Example Part Number: RM4D-1L35K-12-MB-W-L31-PA18-1-DW-90

<div> <div>RM4D</div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>10</div> <div>11</div> <div>12</div> <div>13</div> </div>												
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 Rows Replace "A" with length in feet selected on p3 C Custom Length* - None (leave space empty)	4. PATTERN ¹ GA Square GAxB Rectangle UAxBxC U-Shape LAxB L-Shape C Custom Pattern* - None (leave space empty) Standard Patterns Minimum Lengths Square: A = 4 ft min. Rectangle: A = 4 ft min., B = 4 ft min. U-Shape: A = 3 ft min., B = 4 ft min., C = 3 ft min. L-Shape: A = 3 ft min., B = 3 ft min. Custom Patterns* Lengths and a drawing of custom pattern are required on page 3 Select corner: <input checked="" type="checkbox"/> Outside 90° <input checked="" type="checkbox"/> Inside 90° 	5. OPTICS MB Meta Blanc MD Drop Lens** LS Luma Span (Batwing) LA Luma Asymmetric LG Luma Graze PC Polycarbonate IK10 MB, MD: Opal diffuse lens LS, LA, LG: Optical control lens PC: Semi-diffuse lens See Photometric Data on p2	6. FINISH SA Satin Aluminum W White B Black C Custom Finish Specify RAL:	7. LIGHT LEVEL / DRIVER L1³ L2 Select Driver below. See Light Level Performance and Photometric Data on p2 L3 L4 LX Enter desired lm/ft:						
8. CIRCUITRY 1 1 Circuit EM Emergency / Night Light B Emergency Battery Pack ²	9. MOUNTING PAA Pendant Aircraft Cable PTA Pendant Aircraft Cable for T-bar SSA Solid Stem Replace "A" with length (inches) selected on next page. Select Aircraft Cable or Solid Stem Length, Canopy Finish & Power Cord Color on next page.	10. VOLTAGE 1 120 V 2 277 V 3 347 V 4 UNV (120 - 277V)	11. SENSORS Tap to view Sensors and Controls Reference Guide	12. CONTROLS	13. OPTIONS 90 90 CRI, High R9 BS BIOS Static BD BIOS Dynamic - None (leave space empty)							

*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: ☐ **FD** Factory option 0-10V, 1% Dimming
☐ **LHE** Lutron H-Series Hi-lume 1% EcoSystem LED Driver
☐ **LSE** Lutron 5-Series EcoSystem LED Driver

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)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	18	460
<input type="checkbox"/>	24	610
<input type="checkbox"/>	30	760
<input type="checkbox"/>	36	915

Select:	Imperial (in)	Metric (mm)
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	54	1372
<input type="checkbox"/>	60	1525
<input type="checkbox"/>	72	1830

Select:	Imperial (in)	Metric (mm)
<input type="checkbox"/>	96	2440
<input type="checkbox"/>	120	3050
<input type="checkbox"/>	144	3660
<input type="checkbox"/>	Custom Length: _____	

Select Canopy Finish & Power Cord Color

Canopy	
<input type="checkbox"/> White	<input type="checkbox"/> Custom Finish
<input type="checkbox"/> Black	RAL: _____

Power Cord	
<input type="checkbox"/> White	
<input type="checkbox"/> 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.**

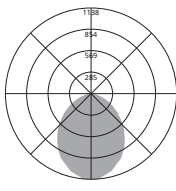
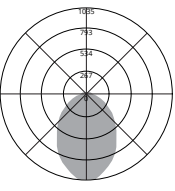
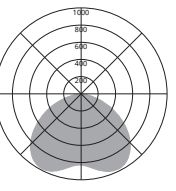
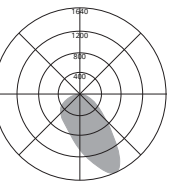
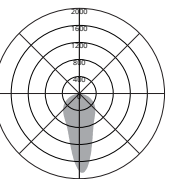
Select:	Imperial (in)	Metric (mm)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	15	380
<input type="checkbox"/>	18	460
<input type="checkbox"/>	21	533
<input type="checkbox"/>	24	610

Select:	Imperial (in)	Metric (mm)
<input type="checkbox"/>	27	685
<input type="checkbox"/>	30	760
<input type="checkbox"/>	33	840
<input type="checkbox"/>	36	915
<input type="checkbox"/>	39	990

Select:	Imperial (in)	Metric (mm)
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	45	1145
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	Custom Length: _____	

LIGHT LEVEL PERFORMANCE & PHOTOMETRIC DATA

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

		Meta Blanc (MB)			Drop Lens (MD)			Luma Span (LS)			Luma Asymmetric (LA)			Luma Graze (LG)		
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	357	3.5	102	417	3.3	126	432	3.3	131	410	3.3	128
L2		439	4.4	99	447	4.4	101	521	4.3	121	539	4.3	125	531	4.3	125
L3		596	6.1	99	608	6.0	101	697	5.8	121	723	5.8	125	719	5.7	125
L4		1106	12.5	89	1127	12.5	90	1277	11.9	108	1325	11.9	112	1362	11.7	116
Light Level L3	IES File	RM4D-1L35K-4-MB-L3			RM4D-1L35K-4-MD-L3			RM4D-1L35K-4-LS-L3			RM4D-1L35K-4-LA-L3			RM4D-1L35K-4-LG-L3		
	Distribution % (Down / Up)	100 / 0			94 / 6			100 / 0			100 / 0			100 / 0		
	Zonal Lumens (0-90 / 90-180)	2386 / 0			2296 / 137			2787 / 0			2892 / 0			2892 / 0		
	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)			Drop Lens (MD)		
		Lumens per foot	Wattage per foot	Efficacy (LPW)	Lumens per foot	Wattage per foot	Efficacy (LPW)
Distribution % (Up/Down)		0 / 100			6 / 94		
Static	L2	590	9.4	63	622	9.4	66
	L3	787	13.3	59	829	13.3	62
	L4	957	17.2	56	1007	17.2	59
Dynamic	L2	531	9.4	56	559	9.4	59
	L3	708	13.3	53	746	13.3	56
	L4	861	17.2	50	907	17.2	53
R9		≥ 90					
COI**		< 3.3					
EML or M/P*		0.8					

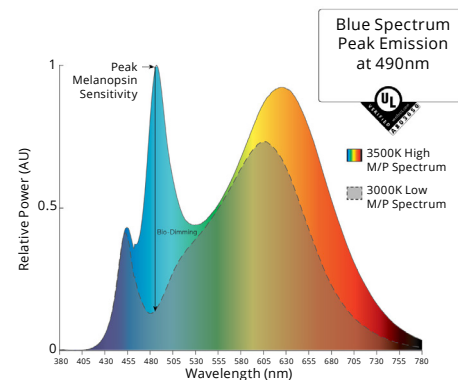
* EML or M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P). BIOS provides the following m/p values: 3000K = 0.7, 3500K = 0.8, 4000K = 0.9. ** COI - Cyanosis Observation Index.

BIOS Naming Convention Reference

BIOS Static	3500K	35BIOSST
	4000K	40BIOSST
BIOS Dynamic	3500K	35BIOSDY
	4000K	40BIOSDY

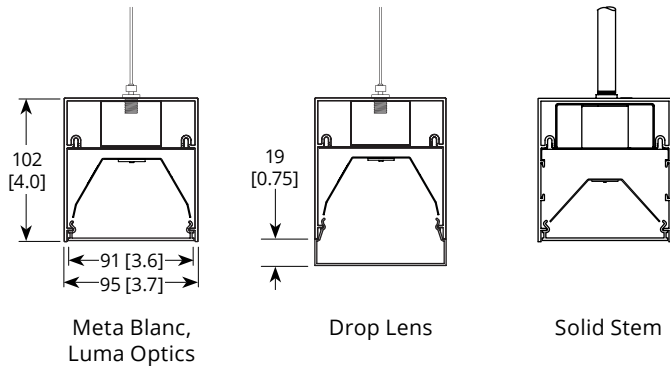
BIOS | Lumen Adjustment Factor (LAF)

Color Temp	LAF
3500K	1.00
4000K	1.05



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

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.

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: Pendant Aircraft Cable: Aircraft cable complete with a Quick-Grip field adjustable suspension system provides for quick and easy onsite alignment. **Solid Stem:** Stainless steel 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.

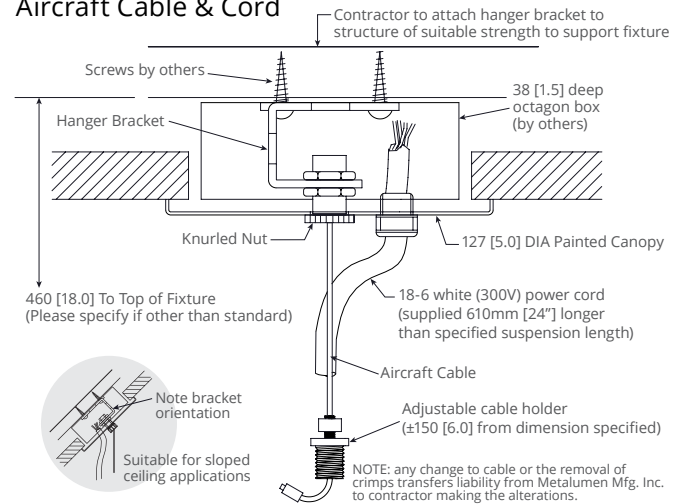
*Standard drivers compatible with passive/sinking dimmers. Please contact Metalumen if active/sourcing dimmer support is required.

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.

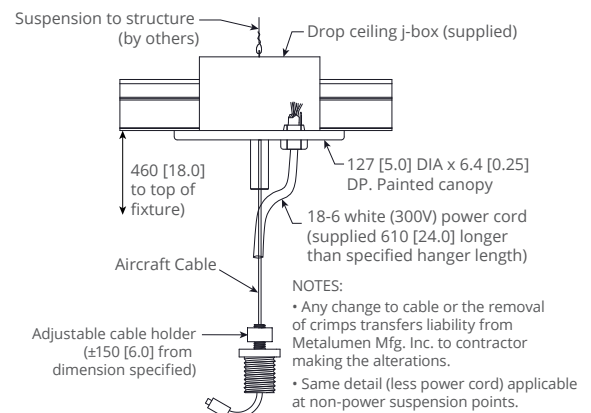
HANGERS

Aircraft Cable & Cord

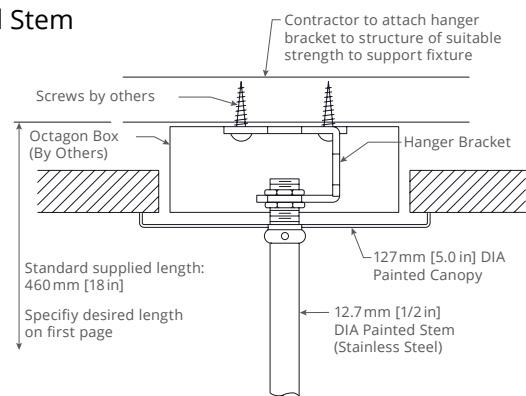


NOTE: same detail (less power cord) applicable at non-power suspension points.

T-Bar Aircraft Cable & Cord



Solid Stem



WIRING

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