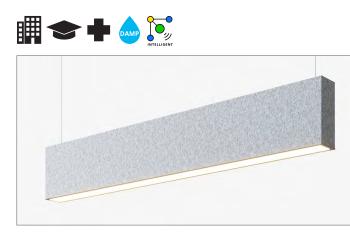
RAIL 2 ACOUSTIC (LIT)

RM2D-ACL . LED . PENDANT . DIRECT



FEATURES

- Optimal lighting partnered with sound absorbing baffle technology by ezoBord

- Baffle height options of 8", 12" or 16"
- Baffle material is resistent to bacteria and moisture.

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

PERFORMANCE SUMMARY

3500K, Meta Blanc Optics					
Lumens per foot	750				
Wattage per foot	6.0				
Efficacy (lm/W)	98				
L70 Estimate (h)	≥ 60,000 hrs				
NRC	1.10				
Sabins	Per Lineal Foot: 1.33 / Per Lineal Meter: 4.35				

See page 2 for complete performance data.

COMPLEMENTARY PRODUCT

Rail 2 Acoustic Unlit RM2D-ACU



ORDER	ING LOGIC				Example P	art Numbe	er: RM2D-ACL	-1L35K-8-MB-0	8CG-500EM-TRT18
RM2D AC	CL 3	4 5	MB 6 7	8	9	10	11	12 13	3 14
1. SERIES RM2D	2. MODEL ACL Acoustic Lit	3. COLOR TEMP 30K 3000K 35K 3500K 40K 4000K	4. LENGTH 2 2 ft 3 3 ft 4 4 ft 5 5 ft 6 6 ft 7 7 ft 8 8 ft RA Continuous Ro C Custom Lengt (Consult factor) _ None (leave spa	r / Configurations ry)	5. PATTERN Consult factory		Meta Blanc anc: Opal	Baffle Height Code 8 Inches BAFF 08 12 16 BAFFLE COL	な XX 小 一 Baffle Color e example: 08 SG
8. LIGHT LEV	/EL / DRIVER	9. CIRCUITRY	10. MOUNTING		11. VOLTAG	=	12. SENSORS	13. CONTROL	S 14. OPTIONS
See Light I	C Custom Range Specify lumens: (between 350-100 at 50 lm intervals) t Driver below. Level Performance hart on p2.	1 1 Circuit EM Emergency / Night Light B Emergency Battery Pack ¹	PAX Pendant Aircra PTX Pendant Aircra TRTX Threaded Rod TRUX Threaded Rod Replace "X" with length (i Select Hanger Len Canopy Fin	ft Cable for T-bar for T-bar for Unistrut nches) selected belo gth and indicate	1 120 V 2 277 V 3 347 V (Con 4 UNV (120)		for fixtur SENSORS a	ee last page e integrated and CONTROLS Logic codes	90 90 CRI (High R9) - None (leave space empty)

Battery operates 4ft sections only.

Select Driver:

□ Factory option 0-10V, 1% Dimming

LHE Lutron H-Series Hi-lume 1% EcoSystem LED Driver

□ LA2 Lutron A-Series Hi-lume 1% 2-wire LED Driver □ L5E Lutron 5-Series EcoSystem LED Driver

Select Hanger Length:

Total aircraft adjustment range is 6" up & down for each standard length. See detailed hanger diagrams on page 5. All other lengths are considered custom unless otherwise stated.

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

Canopy Finish

Standard canopy finish is white

Canopy Finish

PERFORMANCE

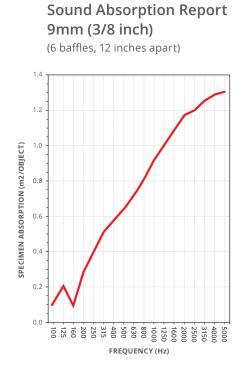
LIGHT LEVEL

3500K, 80 CRI, 0-10V Dimming

Optics	Lumens per foot	Wattage per foot	Efficacy (lm/W)
	500	5.0	99
Meta Blanc	750	7.6	99
	1000	10.1	99

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

ACOUSTIC



NRC:	1.10
SABINS:	Per Lineal Foot: 1.33 Per Lineal Meter: 4.35

ezoBord BAFFLE OPTIONS

STANDARD COLORS

PB Pure Black	CG Charcoal Gray	ES Ebony Slate	DG Dark Gray
SG Silver Gray	CW Classic White	LB Light Beige	DS Desert Sand
SD Sunny Days	TO Tiger Orange	RR Ruby Red	DP DeepPurple
MN Midnight Navy	PI Polar Ice	GA Green Apple	

WOOD GRAIN PRINTS

WDO Dark Oak		WMM Worge	WAD Apple
WDO Dark Oak	WGO Gray Oak	WWN Wenge	WAP Apple
		and the second sec	
WCM Cherry Mate	WWL Walnut	WAS Ash	WHO Honey Oak
WWM White Maple	WNB Natural Birch		

ezoBord COMMITTMENT TO THE ENVIRONMENT

There are approximately 50 billion water bottles consumed around the world each year, and only about half of those get recycled. The rest end up in landfills, littered through our neighborhoods, or floating in our oceans.

Bottled water consumption has more than doubled since 2000; in 2015 there was the equivalent of more than 5

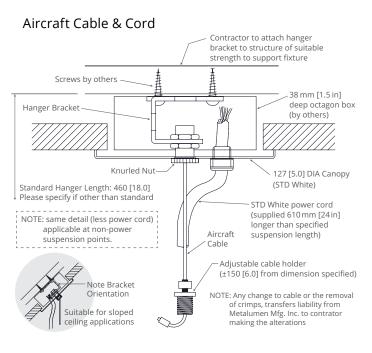
bottles of water consumed for every person in the USA every single week. This, of course, means that the amount make the bottles from PET pellets (1 of oil required to produce the energy used for the water bottling process continues to grow.

In 2007, the last year global statistics of oil consumption were available, between 32 million and 54 million barrels of oil were used to produce the to manufacture our material so that

bottled water that was consumed in the USA alone. This energy is used to million tons in the USA), treat water, bottle the water, label the bottles, and transport the bottled water. Most of the energy consumption occurs in the creation of the bottles themselves. To help in the lifecycle of this plastic product, we have chosen

it recycles these PET bottles. We are doing our part to reduce the waste. This acoustical and tackable material is made from PET bottles in a zerowaste process with postindustrial recycling. An environmentally friendly, sustainable, and waste reduced alternative to traditional acoustical/ tackable material that looks great in any office, education, or open space installation.

HANGER

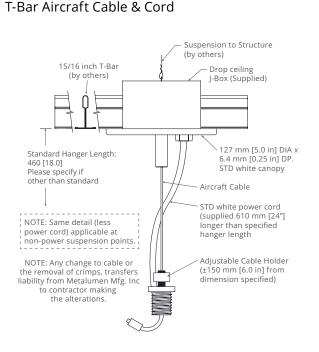


Threaded

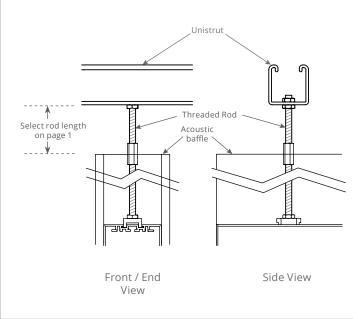
Rod

Acoustic

baffle



Threaded Rod for Unistrut



WIRING

Select rod

length on

page 1

Threaded Rod for T-Bar

<u>s</u>

Front / End

View

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

Metalumen

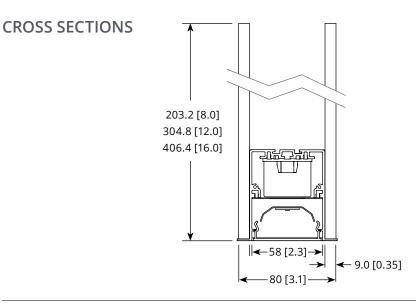
0

Π

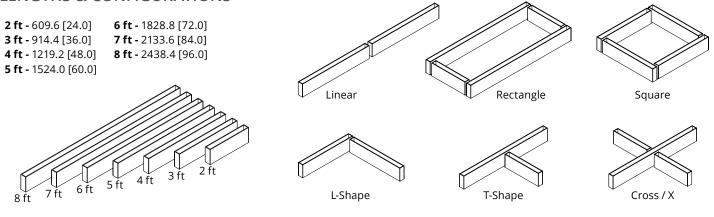
Side View

RAIL 2 ACOUTIC RM2D-ACL LIT. LED. PENDANT. DIRECT

SPECIFICATION SHEET



LENGTHS & CONFIGURATIONS



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: 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.

Paint Finish: White standard finish. For custom finish, contact factory. Weight: 0.95 kg/300mm [2.1 lb/ft] Mounting: Aircraft cable complete

with a Quick-Grip field adjustable suspension system. Threaded rod for t-bar and unistrut metal framing system.

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.

ezoBord ACOUSTIC BAFFLE SPECIFICATIONS

Composition: 100% PET (min. 50% recycled content) Thickness: %" (9mm) | ±0.5mm

Weight:%" (9mm) sheet: 8.4lbs (3.8kg) 1+5% Hardness: 60-65 (Shore C) **Fire Testing:**

• North America:

• Europe and UK:

- EN13501-1: 2007 Acoustics: Refer to ASTM C423-17 test charts for specific absorption coefficients. NRC 0.75 (subject to mounting conditions) Product Variances: Variation in fiber

mix and colour may occur. All products - ASTM E-84 Class A*- CAN ULC S102-10 will be supplied within commercial

tolerances.

General: Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly. Environment: Made of polyester fiber, min. 50% of which comes from recycled water bottles which contributes to LEED MR Credit and BREEAM Health and Wellbeing, Materials points

due to recycled content, acoustic performance, and low emitting materials. No VOC's: CDPH v1.2 and REACH SVHC Compliant.

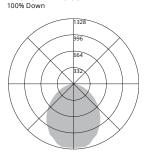
WARRANTY

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.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics: Meta Blanc IES File: RM2D-ACL-1L35K-4-MB-L750 Lumens: 500/ft Wattage: 5.0/ft Efficacy: 99 Im/W

PHOTOMETRIC CURVE



			Zonal Ca	V
Zone	Lumens	%Fixt	RC	
0-20	475	15.9	RW	5
0-30	985	32.9		
0-40	1560	52	RCR	
0-60	2534	84.5	0 1	1
0-80	2963	98.8		
0-90	2998	100	2 3	c
10-90	2873	95.8	4	ē
20-40	1084	36.2	5	7
20-50	1625	54.2	6	7
40-70	1263	42.1	7	
60-80	430	14.3	8	0
70-80	140	4.7	9	-
80-90	35	1.2	10	-
90-110	0	0		
90-120	0	0	LUMIN	
90-130	0	0	LOWIN	.,
90-150	0	0	Vertica	L
90-180	0	0	Angle	
110-180	0	0	45	
0-180	2998	100	55	

ZONAL LUMEN SUMMARY

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	COEFF Zonal Ca								ty Refle	ectai	nce =	.20
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		70			10	70			10	50		10
	0 1 2 3 4 5 6 7 8 9	110 101 92 85 79 73 68 63 59	105 93 83 74 66 60 55 50 46	102 87 75 66 58 52 46 42 38	98 82 69 59 52 46 41 36 33	107 98 90 83 77 71 66 62 58	103 91 81 73 65 59 54 50 46	100 85 74 65 57 51 46 42 38	97 81 68 59 51 45 40 36 33	99 88 78 70 63 57 53 48 45	96 83 72 63 56 50 45 41 38	93 79 67 58 51 45 40 36 33

LUMINANCE DATA (CD/M²)

Vertical Angle	Horiz 0	zontal A 45	ngle 90	
45 55 65	13058 11151 8974	6938 4894 3136	5596 3719 2251	
75 85	6139 2653	1493 340	1051 251	

CANDELA DISTRIBUTION										
	Vertical Angle	Horizontal Angle								
	0 -	0	22.5	45	67.5	90				
	0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75	1302 1296 1303 1265 1183 1135 1034 952 852 740 630 525 415 324 229 147	1302 1317 1297 1245 1179 1123 1050 944 835 740 624 516 413 312 223 143	1302 1328 1282 1244 1190 1108 1015 921 815 590 483 385 292 202 126	1302 1323 1290 1249 1176 1096 1002 897 780 670 554 448 361 266 189 116	1302 1292 1302 1231 1177 1089 998 889 767 659 538 438 347 257 181 113				
	80 85 90	78 30 7	75 29 6	69 25 5	62 24 6	60 24 5				

Photometric performance is measured and scaled in accordance with IESNA LM-79.

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: RM2D-1L35K-12-MB-W-L31-PA18-1-**DW**-90 Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: RM2D-1L35K-12-MB-W-L31-PA18-1-**O-CAB**-90

ORDER LOGIC FIELDS		SENSOR FEATURE / BEHAVIOR		LUMINAIRE CONTROL /		
11. SENSORS	ENSORS 12. CONTROLS (PIR) HARV		DAYLIGHT HARVESTING	CONNECTIVITY	DESCRIPTION	
OF	-		le l	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App
ow	-		ere	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor
DW	-		None	<u> </u>	Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor
ODW	-		e k	Č.	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors
o	-	САВ	je starter and the starter and	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	САВ	je K	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)
o	-	SLVR	e k	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	SLVR	le se	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	e k		Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting
OD	-	ENL	بلا س	<u>č</u>	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















