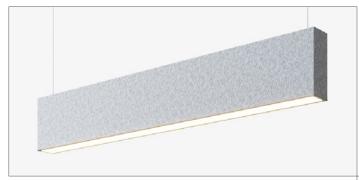
RAIL 2 ACOUSTIC (LIT)

RM2DU-ACL . LED . PENDANT . DIRECT / INDIRECT





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

PERFORMANCE SUMMARY 3500K; Batwing Up, Meta Blanc Down

Lumens per foot	1500			
Wattage per foot	14.7			
Efficacy (LPW)	102			
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.

FEATURES

- · Optimal direct/indirect lighting partnered with sound absorbing baffle technology by EZO
- Baffle height options of 8", 12" or 16"
- · Baffle material is resistent to bacteria and moisture
- · Optional carve pattern option for added visual interest

COMPLEMENTARY PRODUCTS

Rail 2 RAIL2-ACL Acoustic Lit (Direct)



Rail 2 RAIL2-ACU Acoustic Unlit



ORDERING LOGIC

ORDERING LOGIC					Exa	mple Par	t Number: R	M2DU-AC	L-35K-8-BWI	MB-08CG-50	00EM-PA18-1	
RM2DU	ACL			вимв								
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	2. MO	DEL	3. COL	OR TEMP	4. LENGTH	1	5. OPTICS		6. ACOUSTIC BAR	FLE				HT LEVEL / UP / 50% D	
RM2DU	I -	Acoustic Lit	35K 40K 90 CRI	le under	C Custo (Cons	inuous Rows om Length sult factory) e s space empty)	BWMB Up: Bate Down: N Blanc Meta Blanc: Opal diffuse lens	Лeta	Code example: G Height — Color / Wood Pr Height codes: 08 = 8 inches 12 = 12 inches 16 = 16 inches Color / Wood Print: See page 3 for options & codes	int	Carve Patter CP1 = Squeez CP2 = Vertical CP3 = Hourgla = No Carve	e Lines ass e Pattern ace empty)	150 200 C	1000 lm/f 1500 lm/f 2000 lm/f Custom Ran Specify lumen: Indirect U (Combined lun 750-2500 at 50 Select Driver ight Level Perf on p2	Direct Denens between () Imintervals) r below. ormance chart
8. CIRCUIT	TRY		9	. MOUNTII	NG			10. VC	LTAGE	11.	. SENSORS	12. CONTE	ROLS	13. OPTION	NS
UD Up/	1 1 Circuit PAX Pendant Aircraft Cable UD Up / Down Switching		1 120 V 2 277 V		77 V		Please see last page for fixture integrated		I Name		R9)				
	B Emergency / Night Light B Emergency Battery Pack ¹ Replace "X" with length (inches) select Hanger Length and inc Canopy Finish below			3 347 V (Consult factory) 4 UNV (120 - 277V)			SENSORS and CONTROL Order Logic codes		.3	(leave	space empty)				

¹ 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.

NOTE: If no selection is made, a 48" hanger will be supplied.

Select:	Imperial (in)	Metric (mm)	
	12	305	
	18	460	
	24	610	
	30	760	
	36	915	
	42	1067	
	48	1220	

Sele	ct:	Imperial (in)	Metric (mm)
]	54	1372
		60	1525
]	72	1830
]	96	2440
		120	3050
		144	3660
]	Custom Length:	

Canopy and Power Cord Finish

White canopy & cord is standard

Canopy	Cord
Custom	Custom
RAL:	RAL:

PERFORMANCE

LIGHT LEVEL

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

Batwing Up / Meta Blanc Down Distribution: 50% Up / 50% Down (approx.)						
Light Level	Lumens per foot	Wattage per foot	Efficacy (lm/W)			
1000	1004	9.8	102			
1500	1501	14.7	102			
2000	2001	20	100			

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

ACOUSTIC SOUND DATA

Sound Absorption

Material thickness: 9 mm (3/8 inches)

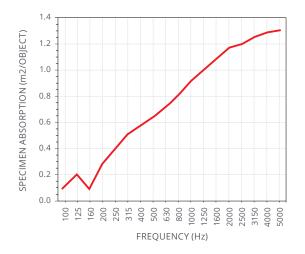
Number of baffle objects: 6

Spacing: 12 inches apart

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

Sound Absorption Coefficients (ASTM C423-17)

NRC	125	250	500	1000	2000	4000
1.10	0.2	0.39	0.64	0.92	1.17	1.29



BAFFLE OPTIONS



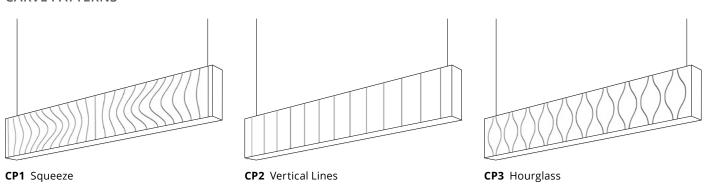
STANDARD COLORS



WOOD GRAIN PRINTS



CARVE PATTERNS





BAFFLE SPECIFICATIONS

Composition: 100% PET (min. 50% recycled content)

Thickness: %" (9mm) | ±0.5mm **Weight:**%" (9mm) sheet: 8.4lbs (3.8kg)

| ±5% **Hardness**: 60-65 (Shore C)

Fire Testing:
• North America:

- ASTM E-84 Class A*- CAN ULC S102-10 mix and colour may occur. All products water bottles which contributes to
- 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 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.

COMMITMENT 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 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

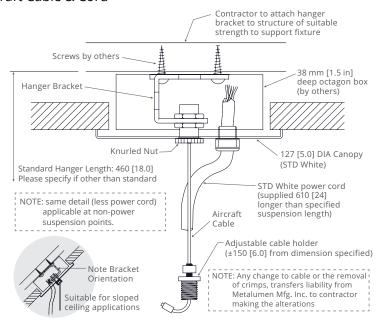
bottled water that was consumed in the USA alone. This energy is used to make the bottles from PET pellets (1 million tons in the USA), treat water, bottle the water, label the bottles, and transport the bottled water. Most of the energy consumption occurs in the creation of the bottles themselves. To help in the lifecycle of this plastic product, we have chosen to manufacture our material so that

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

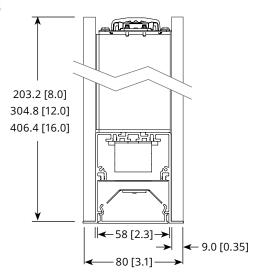
Aircraft Cable & Cord



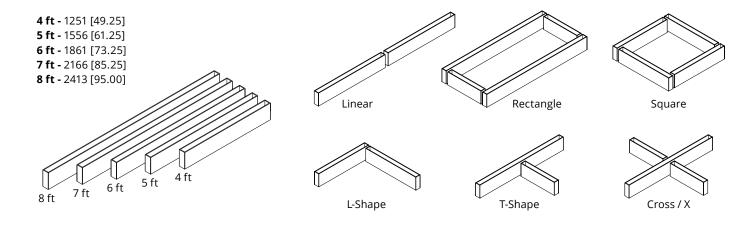
WIRING

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

CROSS SECTIONS



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.

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.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics Up: **Batwing**Optics Down: **Meta Blanc**IES File: **RM2DU-ACL-35K-4-BWMB-150**

Lumens: 1500/ft Wattage: 14.7/ft

Efficacy: 102 LPW

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	3030	51
90-180	2972	49
0-180	6002	100.0

LUMINANCE DATA (CD/M2)

Vertical	Horizontal Angle			
Angle	0 45		90	
45	12332	12455	12569	
55	11477	11371	11583	
65	10878	10379	10378	
75	10673	9786	8806	
85	10640	9658	5367	



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

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: RM2DU-ACL-35K-12-BWMB-12CG-L31-PA18-1-**DW**-90 Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: RM2DU-ACL-35K-12-BWMB-12CG-L31-PA18-1-**O-CAB**-90

ORDER LOGIC FIELDS			SENSOR FEATURE / BEHAVIOR		LUMINIAIDE CONTROL (
11. SENSORS		12. CONTROLS	OCCUPANCY (PIR)	DAYLIGHT HARVESTING	LUMINAIRE CONTROL / CONNECTIVITY	DESCRIPTION
OF	-		A STATE OF THE STA	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App
ow	-		Š.	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor
DW	-		None	<u> </u>	Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor
ODW	-		N. S.	Č.	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors
О	-	САВ	Ŕ	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	САВ	, See Line	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)
О	-	SLVR	, S	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	SLVR	Ŕ	C	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	Š.	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



















^{*}Control system, installation and commissioning provided by others.