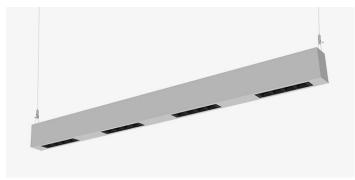
RAIL 2 RM2DU

ACCENT PATTERNS. PENDANT. DIRECT / INDIRECT





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

| PERFORMANCE SUMMARY @ 3500K, 80 CRI | Recessed Downlight Low "A" Light Level (LL) |
|--|--|
| Lumens (lm) per foot | 322 |
| Distribution (Up / Down %) | 0 / 100 |
| Wattage (W) per foot | 2.2 |
| Efficacy (lm/W) | 145 |
| L70 Estimate (h) | ≥ 60,000 hrs |

See page 2 for the complete Light Level Performance chart.

Example Part Number: RM2DU-2L35K-G4-MBLM5-W-L3L31-PA18-1-DW-90

FEATURES

- Available standard lengths of 4, 8 and 12 ft only
- Available with 50° or 80° beam spreads
- 90 CRI available

ORDERING LOGIC RM2DU 8 10 12 5. FINISH 3. PATTERN ¹ 1. SERIES 2. COLOR TEMP 4. OPTICS (UP / DOWN) MBXX5 Meta Blanc / Accent, 50° Beamspread RM2DU 2L30K 3000K **GA** Square Satin Aluminum **GA**x**B** Rectangle 2L35K 3500K MBXX8 Meta Blanc / Accent, 80° Beamspread **W** White **UA**x**B**x**C** U-Shape 2L40K 4000K MRXX5 Rise Lens / Accent, 50° Beamspread **B** Black LAxB L-Shape MRXX8 Rise Lens / Accent, 80° Beamspread C Custom Pattern* C Custom Finish Specify RAL: None (leave space empty) 90 CRI is available Standard Patterns Minimum Lengths Replace XX with accent selected on p2. -B under OPTIONS -В-ACCENT finish is black. G П Meta Blanc & Rise Lens: Opal Diffuse Lens Square / Rectangl A=4ft min. A=3ft min. A = 3 ft minB = 4 ft min.B=4ft min B=3ft min. C=3ft min. Custom Patterns* (C) Select corner: Lengths and a drawing of custom pattern are required on page 3 ✓ Outside 90° ✓ Inside 90 T-Shape Cross/X 11. CONTROLS 12. OPTIONS 6. LIGHT LEVEL (LL) / DRIVER 7. CIRCUITRY 8. MOUNTING 9. VOLTAGE 10. SENSORS **PAA** Pendant Aircraft Replace "Y" with ACCENT Light Level: 1 120 V 90 90 CRI, High R9 CODES: 1 1 Circuit A = Low Light Level Cable Please see last page for fixture L1LX **UD** Up/Down 2 277 V None **B** = Mid Light Level integrated SENSORS and (leave space empty) Switching L2LX C = High Light Level 3 347 V PTA Pendant Aircraft CONTROLS Order Logic codes EM Emergency/ Cable for T-bar L3LX 4 UNV Replace "X" with STANDARD LENS Night Light (120 - 277V) Light Level: L4LX 1 = Light Level 1 Replace "A" with length (in **B** Emergency 2 = Light Level 2 inches) selected below. Battery Pack² 3 = Light Levael 3 4 = Light Level 4 Select Aircraft Cable N = No Light Level (applicable when Length, Canopy Finish & ACCENT configuration doesn't include lens) Power Cord Color below Select Driver: ☐ Factory option 0-10V, 1% Dimming ☐ LHE Lutron H-Series Hi-lume 1% EcoSystem LED Driver Indirect: L3B2 Direct: Light Level 3 Standard Light Level 2 - Accent Mid Light Level LA2 Lutron A-Series Hi-lume 1% 2-wire LED Driver See and select driver options at the right. $oxedsymbol{\square}$ L5E Lutron 5-Series EcoSystem LED Driver See Light Level Performance chart on p2.

^{*} Consult factory. | ** Not available with patterns. | 1 Pattern record drawings showing mounting locations will be sent out upon order. | ²Battery operates 4ft direct sections only.



Select Aircraft Cable Length:

Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated.

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

| Select: | Imperial (in) | Metric (mm) | |
|---------|----------------|-------------|--|
| | 54 | 1372 | |
| | 60 | 1525 | |
| | 72 | 1830 | |
| | 96 | 2440 | |
| | 120 | 3050 | |
| | 144 | 3660 | |
| | Custom Length: | | |

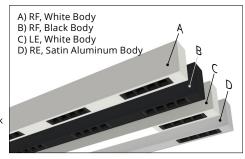
Select Canopy Finish & Power Cord Color

| Canopy | Power Cor |
|------------------|----------------|
| White | ☐ White |
| Black | ☐ Black* |
| Custom Finish | *consult facto |
| RAL: | |

ACCENTS

Recessed Downlights

Recessed downlight sections are available in 4, 8 and 12 ft lengths with beam spreads of 50 or 80 degrees. Recessed downlight comes in black finish only.



Filler -

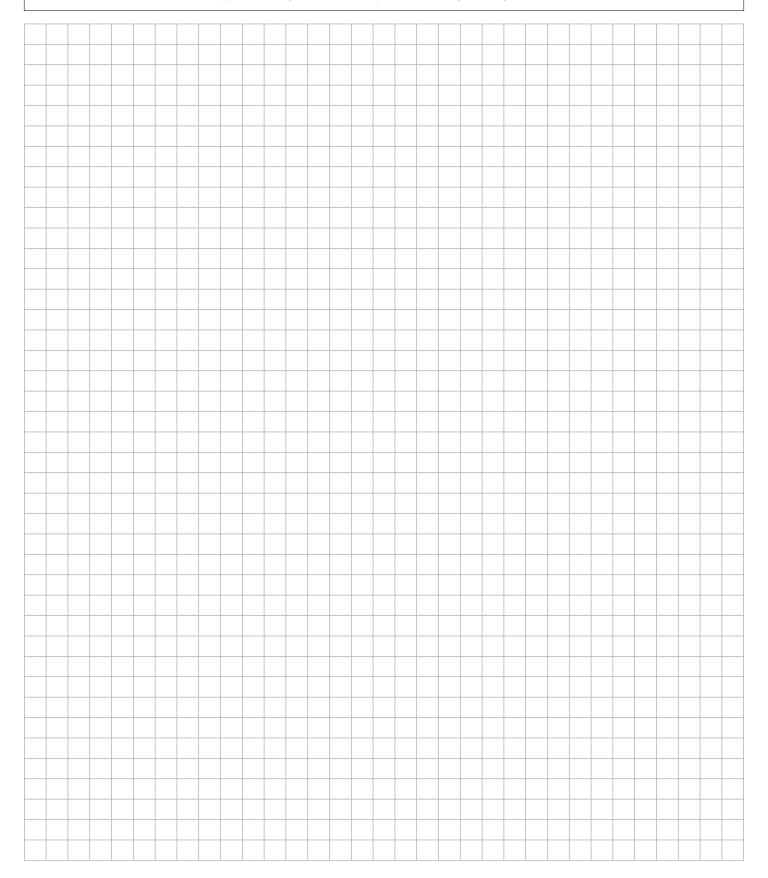
Finished in the same color as the body, the filler appears smooth and seamless, completing the rhythmical aesthetic of the recessed downlight configurations.



| Select Code | | Direct Accent Configuration | | Light Level (LL) Performance | | | | | |
|-------------|---|---|-------------------------|---|---------------------|--|--|--|--|
| one: | Code | (Available for 4, 8 and 12 ft sections only) | A Low LL | B Mid LL | C High LL | | | | |
| | RE | Recessed downlight located at Edge (Power entry located on same end as accent) | 322 lm | 611 lm | 869 lm | | | | |
| | RM | Recessed downlight located at Middle | 322 lm | 611 lm | 869 lm | | | | |
| | R2 | Recessed downlights x2 | 644 lm | 1222 lm | 1738 lm | | | | |
| | R3 | Recessed downlights x3 | 966 lm | 1833 lm | 2607 lm | | | | |
| | | Recessed downlights Full | | | | | | | |
| | | 4 ft Full 4 ft section fits max. 4 recessed downlights | 1288 lm | 2444 lm | 3476 lm | | | | |
| | RF | 8 ft Full 8 ft section fits max. 8 recessed downlights | 2576 lm | 4888 lm | 6952 lm | | | | |
| | | 12 ft Full 12 ft section fits max. 12 recessed downlights | 2064 lm 7222 lm 104 | | | | | | |
| | LE | Recessed downlight located at Edge with Lens (Power entry located on same end as accent) LENS Consult factory | | | | | | | |
| | LM | Recessed downlight located at Middle (with Lens) LENS LENS LENS | Consult factory | | | | | | |
| | Recessed downlights x2 (with Lens) L2 Recessed downlights x2 (with Lens) Consult factory | | | | | | | | |
| | For c | ustom configurations, please provide a drawing on next page. | metrics are | n's light level pe subject to mai nponent tolerar | nufacturers | | | | |

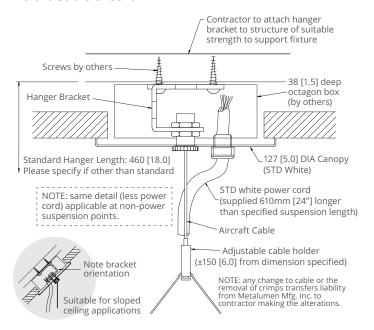
A custom length drawing is required in the grid below

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

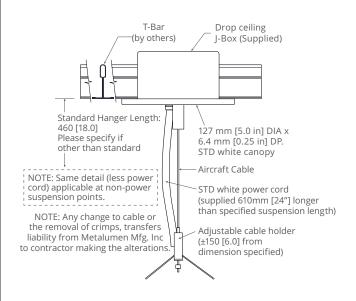


HANGERS

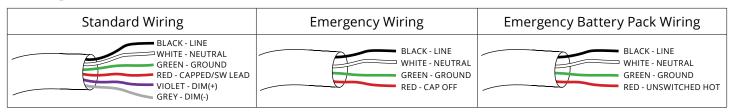
Aircraft Cable & Cord

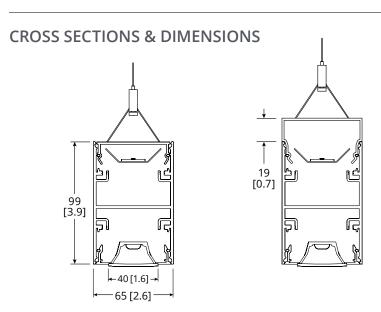


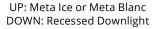
T-Bar Aircraft Cable & Cord



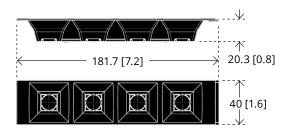
WIRING







UP: Rise Lens DOWN: Recessed Downlight



Recessed Downlight module

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: Rigid extruded aluminum body, 2.3mm [0.09"] 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.

Finish: Satin aluminum, white and black are standard finishes. For custom finish, contact factory. Accent finish comes in black only.

Mounting: Aircraft cable complete with a Quick-Grip field adjustable suspension system provides for quick and easy on-site alignment.

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

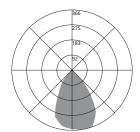
Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics Up: Meta Blanc or Rise Lens Optics Down: Recessed Downlight IES File: RM2DU-2L35K-4-MBAN-L1 Lumens: 322 Wattage: 2.2

Efficacy: 145

PHOTOMETRIC CURVE



ZONAL LUMEN SUMMARY

| Zone | Lumens | %Fixt |
|---------|--------|-------|
| 0-20 | 131 | 36.2 |
| 0-30 | 257 | 71.1 |
| 0-40 | 337 | 93.1 |
| 0-60 | 362 | 99.9 |
| 0-80 | 362 | 100 |
| 0-90 | 362 | 100 |
| 10-90 | 328 | 90.6 |
| 20-40 | 206 | 57 |
| 20-50 | 229 | 63.4 |
| 40-70 | 25 | 6.8 |
| 60-80 | 0 | 0.1 |
| 70-80 | 0 | 0 |
| 80-90 | 0 | 0 |
| 90-110 | 0 | 0 |
| 90-120 | 0 | 0 |
| 90-130 | 0 | 0 |
| 90-150 | 0 | 0 |
| 90-180 | 0 | 0 |
| 110-180 | 0 | 0 |
| 0-180 | 362 | 100 |

COEFFICIENTS OF UTILIZATION Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

| RC RW | 70 50 | 30 30 10 | 70 70 50 30 | 50 10 50 30 | 10 |
|---|--|-------------|-------------------------------------|--|----|
| RCR 0 1 2 3 4 5 6 7 8 9 | 114 111 108 103 102 96 97 90 92 84 88 79 83 74 79 69 75 65 | | 106 101 98 100 95 90 95 89 83 | 104 105 103 95 98 95 86 92 88 87 79 86 82 73 81 76 68 76 71 63 72 67 59 68 63 55 64 59 | |

LUMINANCE DATA (CD/M²)

| Vertical | Horizontal Angle | | | |
|----------------------------|-----------------------------------|----------------------------------|-----------------------|--|
| Angle | 0 45 90 | | | |
| 45 55 65 75 85 | 34520 482 252 245 229 | 14376 1690 173 64 38 | 853 157 16 0 | |

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | | |
|--|---|--|---|--|--|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 | 358 361 364 364 363 330 293 224 152 80 8 1 0 0 | 358 365 365 365 362 329 276 211 144 82 25 1 0 0 | 358 362 362 365 355 330 263 160 71 33 12 3 0 0 | 358 358 358 358 358 346 307 221 1118 37 7 1 0 0 0 0 | 358 355 352 346 324 278 187 82 17 2 1 0 0 0 |
| 85 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 |
| | | | | | |

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-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 FEATURE / BEHAVIOR | | LUMINAIDE CONTROL / | | |
|--------------------|---|---------------------------|--------------------|------------------------|----------------------------------|--|
| 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 | Č. | Standalone (WattStopper) | Wattstopper Standalone Daylight Harvesting Sensor |
| ODW | - | | | | Standalone (WattStopper) | Wattstopper Standalone Occupancy and Daylight Harvesting Sensors |
| o | - | САВ | | None | Casambi Bluetooth Mesh | Casambi Bluetooth Mesh Connectivity with Occupancy Sensing |
| OD | - | САВ | | 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 | | 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 |



















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