RAIL 1.5 S1

RECESSED DRYWALL FLANGELSS . DIRECT

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

PERFORMANCE SUMMARY @ 3500K		Meta Blanc (MB)
Light Level		**75**
Lumens per foot	80 CRI	766
	90 CRI	670
Wattage per foot		7.4
Efficacy (LPW)	80 CRI	103
	90 CRI	90.5
L70 Estimate (h)		≥ 60,000 hrs

See page 2 for the complete Light Level Performance chart.
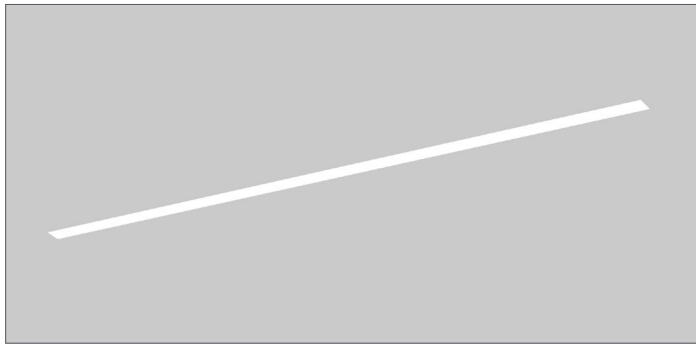
- Narrow 1.5 inch profile
- Integral driver
- 4', 8' and 12' lengths as well as continuous rows
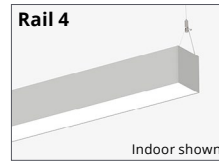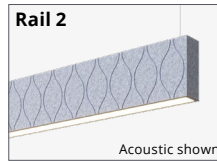- Continuous direct optics with no breaks

5 YEAR WARRANTY   DAMP   cULus PENDING

OTHER RAIL PRODUCTS

Rail 2 — Acoustic shown

Rail 4 — Indoor shown

Rail 6 — TechZone shown

ORDERING LOGIC

Example Part Number: S1-35K-12-MB-W-501-DF-1-90

S1				MB				DF				
1	2	3	4	5	6	7	8	9	10	11	12	13

1. SERIES
S1 Direct

2. COLOR TEMP
30K 3000K
35K 3500K
40K 4000K

90 CRI is available under OPTIONS

3. LENGTH
2 2 ft   **8** 8 ft
3 3 ft   **9** 9 ft
4 4 ft   **10** 10 ft
5 5 ft   **11** 11 ft
6 6 ft   **12** 12 ft
7 7 ft

RA Continuous Rows*
Replace "A" with length in feet
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)

Replace "A", "B", "C" with length in feet. See minimum lengths below.

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 2
T-Shape   Cross / X

Select corner:
☐ Outside 90°
☐ Inside 90°

5. OPTICS
MB Meta Blanc

Meta Blanc:
Opal diffuse lens

6. FINISH
SA Satin Aluminum
W White
B Black
C Custom Finish
Specify RAL:

7. LIGHT LEVEL / DRIVER
35 350 lm/f
50 500 lm/f
75 750 lm/f
85 850 lm/f
C Custom Range
Specify lumens::

(Total lumens between 350–850 lm at 50 lm intervals)

8. CIRCUITRY
1 1 Circuit
EM Emergency / Night Light
B Emergency Battery Pack [2]

9. MOUNTING
DF Recessed Drywall Flangeless

10. VOLTAGE
1 120 V
2 277 V
3 347 V
4 UNV (120 - 277V)

11. SENSORS
_ None (leave space empty)

12. CONTROLS

13. OPTIONS
90 90 CRI, High R9
_ None (leave space empty)

*Consult factory. | [1] Pattern record drawings showing mounting locations will be sent out upon order. | [2] Battery operates 4ft sections only.

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

Metalumen
570 Southgate Drive, Guelph, Ontario N1G 4P6
Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9
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Page **1** of **3**

FILE NAME: S1_DF_SPEC_SHEET_20241120

LIGHT LEVEL PERFORMANCE

3500K, 80 CRI, 0-10V Dimming (Standard)			
Optics	Meta Blanc		
Light Level	Lumens per foot	Wattage per foot	Efficacy (LPW)
35	364	3.4	107
50	521	5.0	105
75	766	7.4	103
85	889	9.2	97

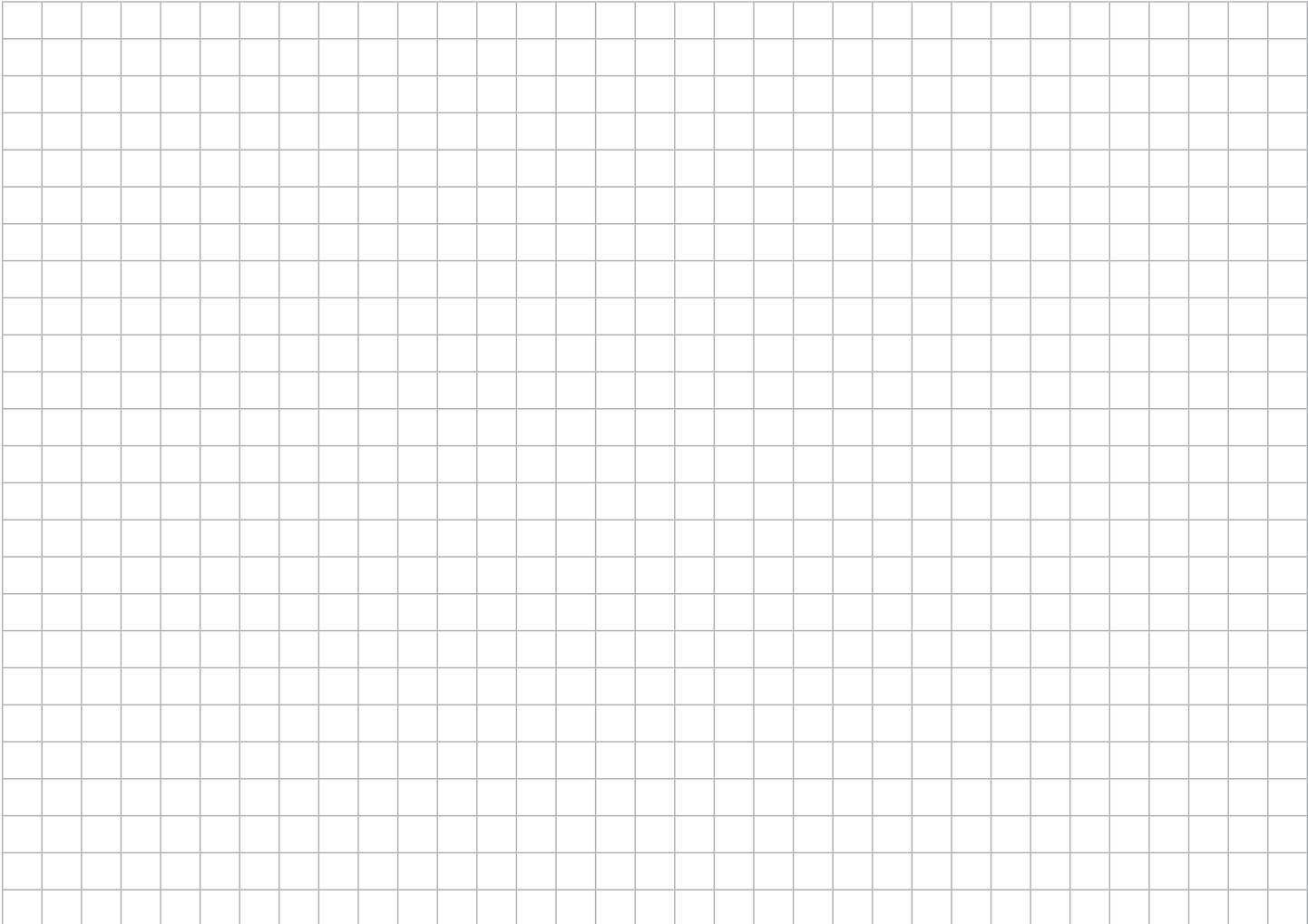| Lumen Adjustment Factor		
Color Temp	80 CRI	90 CRI
3000K	0.984	0.880
3500K	1.000	0.875
4000K	1.032	0.879

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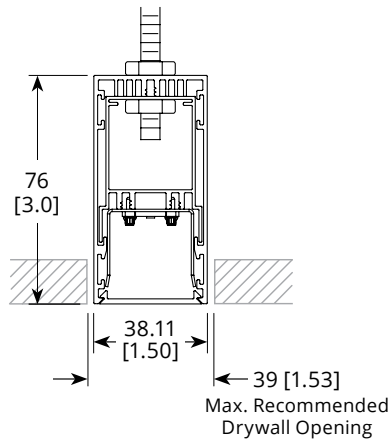
PATTERNS

Select Pattern:	☐ **T-SHAPE (C)**	☐ **CROSS / X-SHAPE (C)**
Pattern Configuration	(T-shape diagram with B horizontal, A vertical)	(Cross-shape diagram with B horizontal, A vertical)
Indicate Desired Lengths (ft)	A = B =	A = B =
Minimum Lengths	A = 3 ft B = 6 ft	A = 6 ft B = 6 ft

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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Page **2** of **3**

FILE NAME: S1_DF_SPEC_SHEET_20241120

CROSS SECTIONS

76 [3.0]

38.11 [1.50]

39 [1.53]
Max. Recommended Drywall Opening

WIRING

Standard	Emergency / Night Light	Emergency Battery Pack
BLACK - LINE WHITE - NEUTRAL BARE - GROUND VIOLET - DIM (+) PINK - DIM (-)	BLACK - LINE WHITE - NEUTRAL BARE - GROUND	BLACK - LINE WHITE - NEUTRAL BARE - GROUND RED - UNSWITCHED HOT

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.

CRI: 83 (3500K) (80 minimum)
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 options. For custom finish, contact factory.

Weight: 1.4 lb/ft or 0.6 kg/300mm.
Mounting: Mounting brackets provided.
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. All drivers are remote

mounted.
Approvals: All components are UL/CSA/QPS recognized or listed. RoHS compliant. cULus pending.
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.
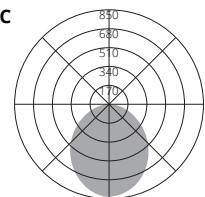
PHOTOMETRIC DATA - 3500K, 80 CRI

Optics: **Meta Blanc**
IES File: **S1-35K-4-MB-50**
Lumens : **521/ft**   Wattage: **5/ft**
Efficacy: **105 LPW**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	2083	100
90-180	0	0
0-180	2083	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle	
	0/180	90/270
85	8315	12662
75	11160	12539
65	12701	14186
55	14026	15355
45	15294	16519

PHOTOMETRIC CURVE

100% Down

850
680
510
340

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

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Page **3** of **3**

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