SPECIFICATION SHEET

RAIL 6 S6
LED . PENDANT . DIRECT
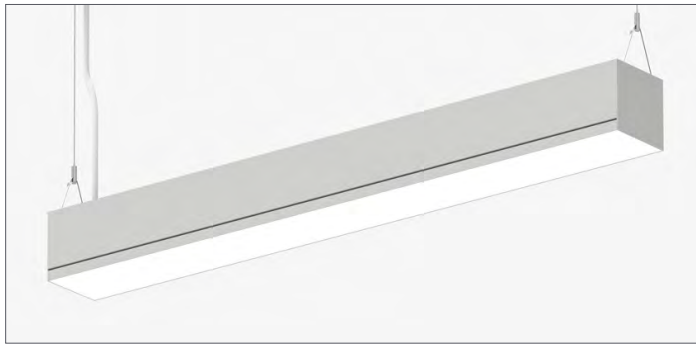
PART #:		
PREP BY:		DATE:
PROJECT:		QTY:
NOTES:		
APPROVAL SIGNATURE:		DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 3500K

		Meta Blanc (MB)	Meta Ice (M)	Drop Lens (MD)
		L3	L3	L3
Lumens per foot	80 CRI	609	713	642
	90 CRI	533	624	562
Wattage per foot		6.1	6.1	6.1
Efficacy	80 CRI	101	118	106
	90 CRI	87	102	92
L70 Estimate (h)		≥ 60,000 hrs		

See page 2 for the complete Light Level Performance chart.

FEATURES

- Efficacy up to 111 LPW
- Suitable for dry or damp locations
- Integral drivers
- Option for daylight harvesting, occupancy sensing, dimming control and emergency lighting

ORDERING LOGIC

Example Part Number: S6-1L35K-12-MB-W-L31-PA18-1-ODW-90

S6

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

1. SERIES	2. COLOR TEMP	3. LENGTH	4. PATTERN [1]		5. OPTICS	6. FINISH
S6	**1L30K** 3000K **1L35K** 3500K **1L40K** 4000K 90 CRI is available under OPTIONS	**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 p2 **C** Custom Length* **–** None (leave space empty)	**GA** Square **GA**x**B** Rectangle **UA**x**B**x**C** U-Shape **LA**x**B** L-Shape **C** Custom Pattern* **_** None (leave space empty)	Replace "A", "B", "C" with length in feet. See minimum lengths below	**MB** Meta Blanc **M** Meta Ice **MD** Drop Lens **	**SA** Satin Aluminum **W** White **B** Black **C** Custom Finish Specify RAL:

Standard Patterns Minimal Lengths

Square
Rectangle
U-Shape — A=3 ft min. B=4 ft min. C=3 ft min.
L-Shape — A=3 ft min. B=3 ft min.

Square — A=4 ft min. B=4 ft min.

Custom Patterns*
Lengths and a drawing of custom pattern are required on page 3

T-Shape   Cross / X

Select corner:
☐ Outside 90°
☐ Inside 90°

Meta Blanc & Drop Lens: Opal diffuse lens

Meta Ice: High output semi-diffuse lens

7. LIGHT LEVEL / DRIVER	8. CIRCUITRY	9. MOUNTING	10. VOLTAGE	11. SENSORS	12. CONTROLS	13. OPTIONS
L1 **L2** **L3** **L4** Select Driver below. See Light Level Performance chart on p2. **LX** Enter desired lm/ft:	**1** 1 Circuit **EM** Emergency / Night Light **B** Emergency Battery Pack[2]	**PAA** Pendant Aircraft Cable **PTA** Pendant Aircraft Cable for T-bar **Replace "A" with length (inches) selected below.** Select Aircraft Cable Length, Canopy Finish & Power Cord Color below	**1** 120 V **2** 277 V **3** 347 V **4** UNV (120 - 277V)	Please see last page for fixture integrated SENSORS and CONTROLS Order Logic codes		**90** 90 CRI, High R9 **_** None (leave space empty)

*Consult factory. | **Drop lens is not available with patterns. | [1] Pattern approval 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
☐ **LA2** Lutron A-Series Hi-lume 1% 2-wire LED Driver
☐ **L5E** 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.

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

Canopy	
☐ White	
☐ Custom Finish	
RAL: _____	

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Light Level Performance

3500K, 80 CRI, 0-10V Dimming

Optics	Meta Blanc (MB)			Meta Ice (M)			Drop Lens (MD)		
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)
L1	370	3.5	107	433	3.5	125	377	3.5	108
L2	456	4.4	104	533	4.4	121	472	4.4	107
L3	609	6.1	101	713	6.1	118	642	6.0	106
L4	1121	12.5	90	1312	12.5	105	1191	12.5	95.4

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.

CONTINUOUS ROWS

Step 1) Indicate desired quantity of rows under the QTY column

Step 2) ☐← Pods →☐ If applicable, select pod(s) per row to indicate desired Emergency Lighting/Night Light/Battery Location. If a similar row requires a different Emergency lighting location, please fill out another sheet.

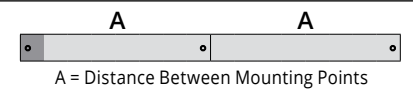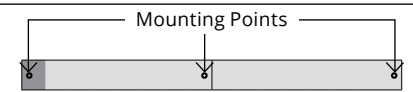Record drawings for rows not represented here will be sent out upon order.

LEGEND

■ Standard (STD) Wire Entry Location (located 52mm from end on top of fixture)

■ Emergency (EM) / Night Light Location

▨ EM or Battery Wire Entry Location (located 52mm from end on top of fixture)

Mounting Points

A = Distance Between Mounting Points
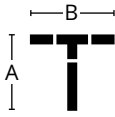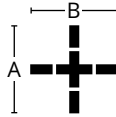
EM / Night Light and EM or Battery Wire Entry location in relation to pod selections:

Example 20 ft run

Refer to page 4 for Hanger information

ROWS IN PLAN VIEW

Rows are for demonstration purposes only and are not to scale.

QTY	Nominal Length	Run Length Overall	Alone / Start Length	Mid Length(s)	End Length	Plan View
	4'	1229 [48.4]	4			1219 [48.0]
	8'	2449 [96.4]	8			2438 [96.0]
	12'	3668 [144.4]	12			3658 [144.0]
	16'	4887 [192.4]	8		8	2438 [96.0] / 2438 [96.0]
	20'	6106 [240.4]	12		8	3658 [144.0] / 2438 [96.0]
	24'	7325 [288.4]	12		12	3658 [144.0] / 3658 [144.0]
	28'	8545 [336.4]	8	12	8	2438 [96.0] / 3658 [144.0] / 2438 [96.0]
	32'	9764 [384.4]	12	8	12	3658 [143.7] / 2438 [96.0] / 3658 [144.0]
	36'	10983 [432.4]	12	12	12	3650 [143.7] / 3658 [144.0] / 3658 [144.0]
	40'	12202 [480.4]	12	8, 8	12	3658 [144.0] / 2438 [96.0] / 2438 [96.0] / 3658 [144.0]
	44'	13421 [528.4]	12	12, 8	12	3658 [144.0] / 3658 [144.0] / 2438 [96.0] / 3658 [144.0]
	48'	14641 [576.4]	12	12, 12	12	3658 [144.0] / 3658 [144.0] / 3658 [144.0] / 3658 [144.0]

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PATTERNS

Select Pattern:	☐ **T-SHAPE (C)**	☐ **CROSS / X-SHAPE (C)**
Pattern Configuration		
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.

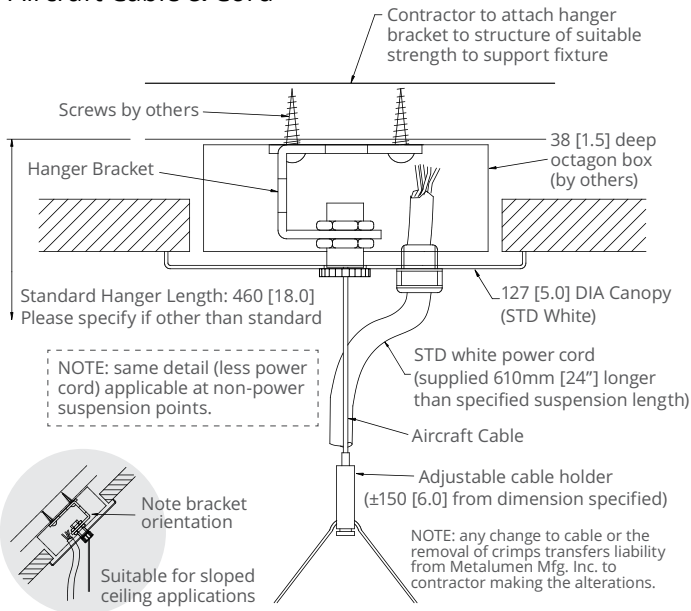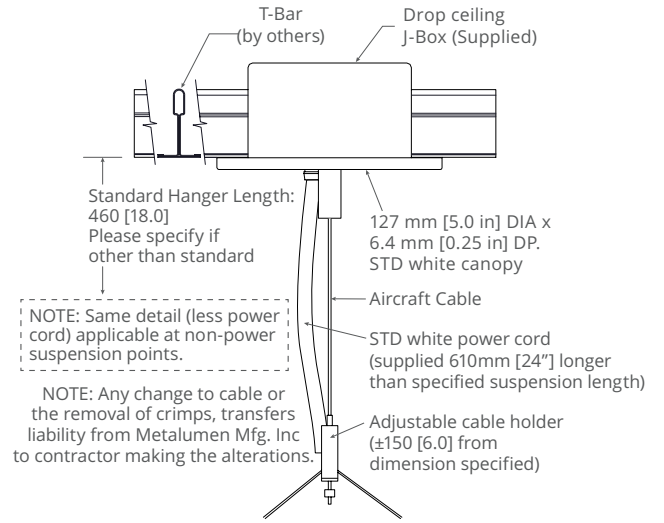570 Southgate Drive, Guelph, Ontario N1G 4P6
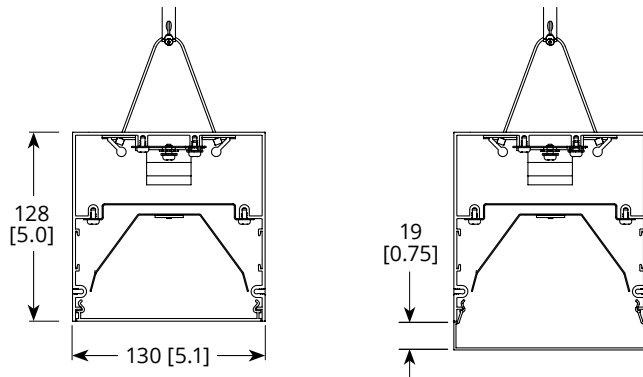Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

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HANGER

Aircraft Cable & Cord

Contractor to attach hanger bracket to structure of suitable strength to support fixture

Screws by others

Hanger Bracket

38 [1.5] deep octagon box (by others)

Standard Hanger Length: 460 [18.0] Please specify if other than standard

127 [5.0] DIA Canopy (STD White)

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

STD white power cord (supplied 610mm [24"] longer than specified suspension length)

Aircraft Cable

Note bracket orientation

Adjustable cable holder (±150 [6.0] from dimension specified)

Suitable for sloped ceiling applications

NOTE: any change to cable or the removal of crimps transfers liability from Metalumen Mfg. Inc. to contractor making the alterations.

T-Bar Aircraft Cable & Cord

T-Bar (by others)

Drop ceiling J-Box (Supplied)

Standard Hanger Length: 460 [18.0] Please specify if other than standard

127 mm [5.0 in] DIA x 6.4 mm [0.25 in] DP. STD white canopy

Aircraft Cable

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

STD white power cord (supplied 610mm [24"] longer than specified suspension length)

NOTE: Any change to cable or the removal of crimps, transfers liability from Metalumen Mfg. Inc to contractor making the alterations.

Adjustable cable holder (±150 [6.0] from dimension specified)

WIRING

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

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CROSS SECTIONS

128 [5.0]

130 [5.1]

Meta Blanc or Meta Ice

19 [0.75]

Drop Lens

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.

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

Weight: 1.7 kg/300mm [3.8 lb/ft]

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

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FILE NAME: S6_LED_PA_PT_SPEC_SHEET_20221007

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics: **Meta Blanc**
IES File: **S6-1L35K-4-MB-L3**
Lumens: **609/ft**   Wattage: **6.1/ft**
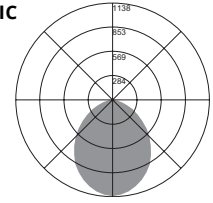Efficacy: **101 LPW**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	2435	100
90-180	0	0
0-180	2435	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	4443	2684	2224
55	3665	1899	1520
65	2843	1223	937
75	1889	623	454
85	733	153	113

PHOTOMETRIC CURVE

100% Down

Optics: **Meta Ice**
IES File: **S6-1L35K-4-M-L3**
Lumens: **713/ft**   Wattage: **6.1/ft**
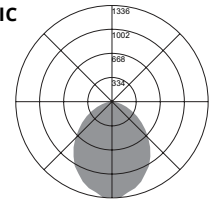Efficacy: **118 LPW**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	2855	100
90-180	0	0
0-180	2855	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	5198	3134	2581
55	4347	2212	1751
65	3365	1427	1090
75	2172	730	518
85	839	175	137

PHOTOMETRIC CURVE

100% Down

Optics: **Drop Lens**
IES File: **S6-1L35K-4-MD-L3**
Lumens: **642/ft**   Wattage: **6.0/ft**
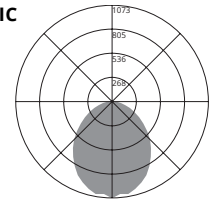Efficacy: **106 LPW**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	2440	94.9
90-180	131	5.1
0-180	2571	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	5198	3134	2581
55	4347	2212	1751
65	3365	1427	1090
75	2172	730	518
85	839	175	137

PHOTOMETRIC CURVE

5% Up
95% Down

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

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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: S6-1L35K-12-MB-W-L31-PA18-1-**DW**-90
Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: S6-1L35K-12-MB-W-L31-PA18-1-**O-CAB**-90

ORDER LOGIC FIELDS			SENSOR FEATURE / BEHAVIOR		LUMINAIRE CONTROL / CONNECTIVITY	DESCRIPTION
11. SENSORS		**12. CONTROLS**	**OCCUPANCY (PIR)**	**DAYLIGHT HARVESTING**		
OF	-		(occupancy icon)	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App
OW	-		(occupancy icon)	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor
DW	-		None	(daylight icon)	Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor
ODW	-		(occupancy icon)	(daylight icon)	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors
O	-	CAB	(occupancy icon)	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	CAB	(occupancy icon)	(daylight icon)	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Daylight Harvesting and Occupancy Sensing
	-	CAB	None	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity (no sensors)
O	-	SLVR	(occupancy icon)	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	SLVR	(occupancy icon)	(daylight icon)	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	(occupancy icon)	(daylight icon)	Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting
OD	-	ENL	(occupancy icon)	(daylight icon)	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

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