

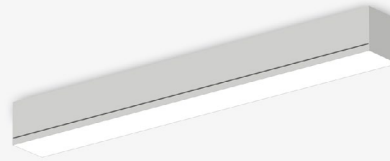
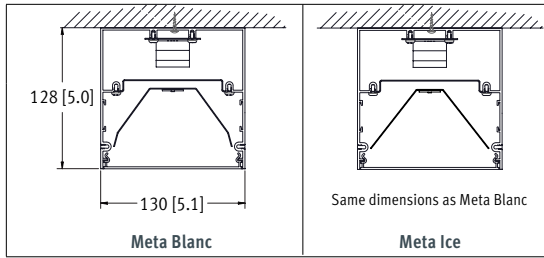
Rail 6 S6 (Formerly Sequence)

LED . Surface



DLC Approved only to Meta Ice Optics

CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:



ORDERING LOGIC

Example Part Number: S6-1L35K-8-M-W-L31-S-1-D-90

S6							S				
Series	Color Temp	Length/Pattern	Optics Up	Optics Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Controls	Options
Color Temp	Length/Pattern (Cont'd)	Optics Up	Light Level (LL) / Driver				Circuitry	Controls			
1L30K = 3000K	8 = 8 ft	- = None (leave space empty)	Fixture Lumens Light level measured at 3500K.				1 = 1 Circuit	- = None (leave space empty)			
1L35K = 3500K	9 = 9 ft	Optics Down	0-10V Dimming (Standard)	Lumens Delivered	Wattage	Efficacy (LPW)	EM = Emergency / Night Light	D = Daylight Sensor			
1L40K = 4 ft	10 = 10 ft	MB = Meta Blanc	Meta Blanc	L1	1479	13.8	107	B = Battery Pack	O = Occupancy Sensor		
1LTUN = 2-White Tunable (2700 - 6500K)	11 = 11 ft	M = Meta Ice	Meta Ice	L2	1824	17.6	104	Mounting	DO = Daylight/Occupancy Sensor		
Length/Pattern	12 = 12 ft	Finish		L3	2435	24.2	101	S = Surface	Options		
2 = 2 ft	R = Continuous Rows See page 3	SA = Satin Aluminum		L4	4483	49.9	90	Voltage	90 = 90 CRI		
3 = 3 ft	G = Square / Rectangle	W = White		L1	1730	13.8	125	1 = 120 V	- = None (leave space empty)		
4 = 4 ft	U = U-Shape	C = Custom Finish Specify RAL#:		L2	2133	17.6	121	2 = 277 V			
5 = 5 ft	L = L-Shape			L3	2850	24.2	118	3 = 347 V			
6 = 6 ft	C = Custom Pattern*			L4	5248	49.8	105	4 = UNV (120 - 277 V)			
7 = 7 ft	Enter pattern dimensions on page 2			Based on 4ft sections.							
				Lumen Adjustment Factor							
				Color Temp	80 CRI	90 CRI					
				3000K	0.984	0.873					
				3500K	1.000	0.875					
				4000K	1.032	0.879					

* Consult factory for custom patterns, including X and T patterns.

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, and steel formed end caps.

Optical System: Optical System MetaLED mid flux LED technology transmits to an internal high performance-side kicking reflector that then passes through our Meta Blanc or Meta Ice acrylic diffuser for smooth distribution, creating a continuation of smooth consistent light.

CRI: 83+ for 3500K, 80 minimum for all CCTs

in standard configurations.

Lumen Maintenance: At an ambient operating temperature of 35°C, the LED lifetime expectancy > 60 000hrs at L85.

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

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

Mounting: Fixture is mounted directly to ceiling.

Electrical: Factory prewired with easy wire

quick connect sections.

Drivers: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range Power factor is >90% with a Class 2 rating.

Lutron Driver Options: Consult factory for Lutron driver options:

- L3DAE Hi-lume 1% EcoSystem LED Driver
- L3DA3W Hi-lume 1% 3-wire LED Driver

- LTEA2W Hi-lume 1% 2-wire LED Driver
 - LDE1 Hi-lume 1% -H EcoSystem LED Driver
 - LDE5 5-Series EcoSystem LED Driver
- Controls:** Refer to Ordering Logic chart above.
- Approvals:** Certified to NRTL safety and IES recommendation testing standards. cULus listed. All components are CSA/QPS recognized or listed, RoHS, LM79, LM80 and LM82 compliant.
- Environment:** Suitable for dry or damp locations.

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.

APPROVALS Signature _____

Date _____

FILE NAME: S6_S_SPEC_SHEET_20180503

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

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Metalumen

FEATURES



COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been

applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.



EDULUMEN // Educational Lighting Edulumen is a collection of premium luminaires that maximize both the functionality and performance of any educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Metalumen is dedicated to creating sustainable environments that foster

enhanced educational experiences.

META LED LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.



Suitable for damp locations.

	<p>RAIL 6 S6 Family DLC Approved</p>	<p>For more Metalumen DLC Approved Products, visit the DLC Website</p>
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PATTERNS

Select Pattern	Square (G)	Rectangle (G)	U-Shape (U)	L-Shape (L)
Pattern Configuration				
Indicate Desired Lengths (ft)	A =	A = B =	A = B = C =	A = B =
Minimum Lengths	4' for all sides		A = 3', B = 4', C = 3'	A = 3', B = 3'

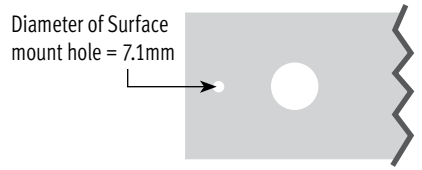
Record drawings will be sent out upon order showing mounting locations.

MOUNTING - ROW CONFIGURATIONS

QTY	Nominal Length	Run Length Overall	Along Length	Start Length	Mid Length(s)	End Length	Light Level STD = Standard w/EM = With Emergency	
—	4'	1223 [48.1]	4				STD	
							w/EM	
—	8'	2442 [96.1]	8				STD	
							w/EM	
—	12'	3662 [144.2]	12				STD	
							w/EM	
—	16'	4880 [192.1]	8	8			STD	
							w/EM	
—	20'	6100 [240.2]	12	8			STD	
							w/EM	
—	24'	7320 [288.2]	12	12			STD	
							w/EM	
—	28'	8538 [336.1]	8	12	8		STD	
							w/EM	
—	32'	9758 [384.2]	12	8	12		STD	
							w/EM	
—	36'	10978 [432.2]	12	12	12		STD	
							w/EM	
—	40'	12196 [480.2]	12	8	12		STD	
							w/EM	
—	44'	13416 [528.2]	12	12	12		STD	
							w/EM	
—	48'	14636 [576.2]	12	12	12		STD	
							w/EM	

LEGEND

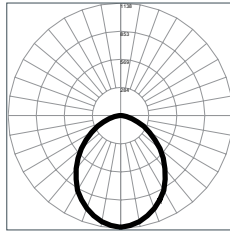
- Standard (STD) Wire Entry Location (located 52mm from end on top of fixture)
- Emergency (EM) Lighting Location
- Emergency Wire Entry Location (located 52mm from end on top of fixture)



PHOTOMETRIC DATA - 3500K - L3

File Name: S6-1L35K-4-MB-L3
 Luminaire Lumens: 2435
 Total Watts: 24.2
 Efficacy: 101 lms/W
 Optics Up: None
 Optics Down: Meta Blanc

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle			
	0	30	60	90
0	1322.81	1322.81	1322.81	1322.81
5	1336.31	1316.14	1318.16	1310.24
10	1274.36	1288.29	1278.81	1276.54
15	1240.44	1222.49	1225.81	1221.28
20	1181.26	1159.12	1149.92	1141.46
25	1099.07	1092.99	1062.96	1055.19
30	1027.54	1002.89	968.3	950.02
35	927.73	900.76	861.03	827.29
40	824.4	798.29	739.54	715.72
45	714.17	692.26	631.04	603.97
50	602.18	579.78	521.68	497.59
55	504.3	468.79	422.14	399.02
60	402.82	374.31	327.2	314.76
65	306.52	281.33	248.38	234.29
70	216.3	199.09	173.28	165.55
75	137.76	128.38	111.18	101.1
80	73.5	67.31	58.82	54.19
85	28.37	25.48	22.68	23.31
90	7.12	5.51	5.92	7.26

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	469.73	16.50
0-30	965.33	33.80
0-40	1515.31	53.10
0-60	2426.99	85.00
0-80	2822.14	98.90
0-90	2854.5	100.00
10-90	2729.9	95.60
20-40	1045.58	36.60
20-50	1555.12	54.50
40-70	1177.51	41.30
60-80	395.15	13.80
70-80	129.32	4.50
80-90	32.36	1.10
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	2854.5	100.00

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

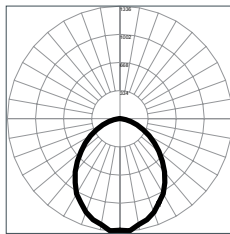
RC RW	80			70			50		
	70	50	30	70	50	30	70	50	30
0	101	101	101	99	99	99	94	94	94
1	93	90	86	84	91	88	85	82	80
2	86	79	74	70	84	78	73	69	75
3	79	71	64	59	77	69	63	59	67
4	73	63	56	51	71	62	56	51	60
5	67	57	50	44	65	56	49	44	54
6	62	52	44	39	61	51	44	39	49
7	58	47	40	35	56	46	40	35	45
8	54	43	36	32	53	43	36	31	41
9	51	40	33	29	50	39	33	29	38
10	48	37	30	26	47	36	30	26	36

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

File Name: S6-1L35K-4-M-L3
 Luminaire Lumens: 2850
 Total Watts: 24
 Efficacy: 118 lms/W
 Optics Up: None
 Optics Down: Meta Ice

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1128.98	1128.98	1128.98	1128.98	1128.98
5	1115.81	1104.53	1137.92	1101.96	1118.38
10	1089.44	1088.08	1095.13	1088.71	1066.99
15	1048.49	1042.42	1037.6	1035	1037.64
20	997.4	990.93	982.9	974.04	977
25	937.71	929.21	914.03	900.04	889.19
30	874.03	859.77	834.43	811.73	806.19
35	785.53	775.18	749.12	720.87	707.12
40	699.56	692.68	652.76	625.15	620.55
45	610.4	596.68	566.6	525.29	520.33
50	520.58	502.71	465.37	439.2	431.41
55	425.19	416.21	382.53	354.58	346.39
60	339.58	330.66	302.17	275.02	272.7
65	258.96	248.26	227.05	208.46	201.37
70	185.3	176.26	161.94	144.98	142.11
75	119.78	114.16	102.22	94.27	88.71
80	63.06	60.21	53.44	50.22	48.25
85	24.79	23.06	21.02	20.01	19.18
90	6.05	5.38	4.76	5.61	5.35

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	398.56	16.40
0-30	819.17	33.60
0-40	1286.98	52.80
0-60	2067.21	84.90
0-80	2407.16	98.80
0-90	2435.28	100.00
10-90	2329.65	95.70
20-40	888.43	36.50
20-50	1323.53	54.30
40-70	1008.36	41.40
60-80	339.95	14.00
70-80	111.82	4.60
80-90	28.12	1.20
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	2435.28	100.00

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC RW	80			70			50		
	70	50	30	70	50	30	70	50	30
0	119	119	119	116	116	116	111	111	111
1	110	106	102	98	107	103	100	97	99
2	101	93	87	82	98	91	86	81	88
3	93	83	75	69	90	81	74	69	78
4	85	74	66	60	83	73	65	59	70
5	79	67	58	52	77	66	58	52	64
6	73	61	52	46	71	60	52	46	58
7	68	55	47	41	66	54	47	41	53
8	64	51	43	37	62	50	42	37	49
9	60	47	39	34	58	46	39	33	45
10	56	43	36	31	55	43	35	31	42

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