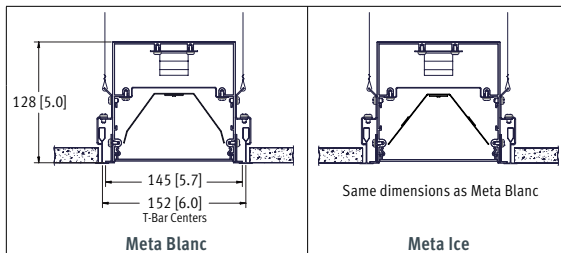


Rail 6 S6 (Formerly Sequence)

LED . Recessed T-Bar Flanged . TechZone



DLC Applicable only to Meta Ice Optics



CAT #:

PREP BY:

DATE:

PROJECT:

TYPE:

NOTES:

ORDERING LOGIC

Example Part Number: S6-1L35K-8-MB-W-L31-T-1-D-90

S6							T				
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)		Performance at 3500K 0-10V Dimming (Standard)			1 = 1 Circuit	= None (leave space empty)		
1L35K = 3500K		9 = 9 ft	Optics Down		Optics	Light Level	Lumens Delivered	Wattage	Efficacy (LPW)	EM = Emergency / Night Light	D = Daylight Sensor
1L40K = 4 ft		10 = 10 ft	MB = Meta Blanc		MB	L1	1479	13.8	107	B = Battery Pack	O = Occupancy Sensor
						L2	1824	17.6	104		
						L3	2435	24.2	101		
						L4	4483	49.9	90		
					M	L1	1730	13.8	125	Mounting	DO = Daylight/Occupancy Sensor
						L2	2133	17.6	121		
						L3	2850	24.2	118		
						L4	5248	49.8	105		
					MD	L1	1433	14	102	Voltage	90 = 90 CRI
						L2	1793	17.69	101		
						L3	2439	24.2	100		
						L4	4523	49.9	90		
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. | ** Drop lens is not available with patterns. | † Optimized to fit 15/16" T-bar. Will fit most 9/16" T-bars.

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: Optimized to fit 15/16" t-bar. Will fit most 9/16" t-bars. TechZone compatible.

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_T_SPEC_SHEET_20180508

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

1.800.621.6785 | T 519.822.4381 | F 519.822.4589
www.metalumen.com

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. Students challenge themselves throughout the day to achieve, and Metalumen is dedicated to this by creating sustainable environments that foster enhanced educational experiences.

Metalumen. A slim LED platform for any of your LED linear application.



DAMP Suitable for dry or damp locations.

M E T A LED boards with a raw efficacy of over 120lm/W, proprietary to

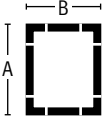
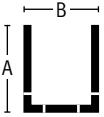
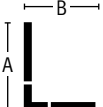


RAIL 6 S6 Family
DLC Approved

Applicable only to
Meta Ice Optics

For more Metalumen
DLC Approved Products,
visit the [DLC Website](#)

PATTERNS

	Square (G)	Rectangle (G)	U-Shape (U)	L-Shape (L)
Select Pattern				
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'	

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

MOUNTING - ROW CONFIGURATIONS

QTY	Nominal Length	Run Length Overall	Alone Length	Start Length	Mid Length(s)	End Length	Light Level STD = Standard w/EM = With Emergency	
—	4'	For 4' T-Bar Centers	4				STD	
—							w/EM	
—	8'	For 8' T-Bar Centers	8				STD	
—							w/EM	
—	12'	For 12' T-Bar Centers	12				STD	
—							w/EM	
—	16'	For 16' T-Bar Centers	8		8		STD	
—							w/EM	
—	20'	For 20' T-Bar Centers	12		8		STD	
—							w/EM	
—	24'	For 24' T-Bar Centers	12		12		STD	
—							w/EM	
—	28'	For 28' T-Bar Centers	8	12	8		STD	
—							w/EM	
—	32'	For 32' T-Bar Centers	12	8	12		STD	
—							w/EM	
—	36'	For 36' T-Bar Centers	12	12	12		STD	
—							w/EM	
—	40'	For 40' T-Bar Centers	12	8	12		STD	
—							w/EM	
—	44'	For 44' T-Bar Centers	12	12	12		STD	
—							w/EM	
—	48'	For 48' T-Bar Centers	12	12	12		STD	
—							w/EM	

LEGEND

- Standard (STD) Wire Entry Location (located on the end cap)
- Emergency (EM) Lighting Location
- Emergency Wire Entry Location (located on the end cap)

PHOTOMETRIC DATA - 3500K - L3

Meta Blanc

File Name: S6-1L35K-4-MB-L3

Luminaire Lumens: 2435

Total Watts: 24.2

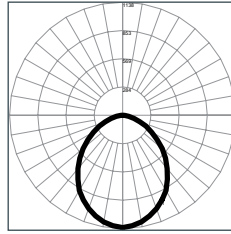
Efficacy: 101 lms/W

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC	80				70				50			
RW	70	50	30	10	70	50	30	10	70	50	30	10
RCR												
0	119	119	119	119	116	116	116	116	111	111	111	111
1	110	106	102	98	107	103	100	97	99	96	94	
2	101	93	87	82	98	91	86	81	88	83	79	
3	93	83	75	69	90	81	74	69	78	72	68	
4	85	74	66	60	83	73	65	59	70	64	59	
5	79	67	58	52	77	66	58	52	64	57	51	
6	73	61	52	46	71	60	52	46	58	51	45	
7	68	55	47	41	66	54	47	41	53	46	41	
8	64	51	43	37	62	50	43	37	49	42	37	
9	60	47	39	34	58	46	39	33	45	38	33	
10	56	43	36	31	55	43	35	31	42	35	30	

PHOTOMETRIC CURVE



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

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

Meta Ice

File Name: S6-1L35K-4-M-L3

Luminaire Lumens: 2850

Total Watts: 24

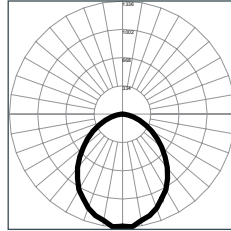
Efficacy: 118 lms/W

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC	80				70				50			
RW	70	50	30	10	70	50	30	10	70	50	30	10
RCR												
0	101	101	101	101	99	99	99	99	94	94	94	
1	93	90	86	84	91	88	85	82	84	82	80	
2	86	79	74	70	84	78	73	69	75	71	67	
3	79	71	64	59	77	69	63	59	67	62	58	
4	73	63	56	51	71	62	56	51	60	54	50	
5	67	57	50	44	65	56	49	44	54	48	44	
6	62	52	44	39	61	51	44	39	49	43	39	
7	58	47	40	35	56	46	40	35	45	39	35	
8	54	43	36	32	53	43	36	31	41	36	31	
9	51	40	33	29	50	39	33	29	38	32	28	
10	48	37	30	26	47	36	30	26	36	30	26	

PHOTOMETRIC CURVE



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

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

Drop Lens

File Name: S6-1L35K-4-MD-L3

Luminaire Lumens: 2439

Total Watts: 24.2

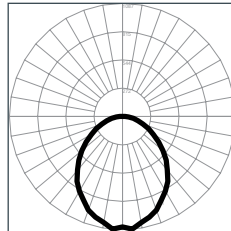
Efficacy: 100 lms/W

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC	80				70				50			
RW	70	50	30	10	70	50	30	10	70	50	30	10
RCR												
0	119	119	119	119	116	116	116	116	111	111	111	111
1	109	104	100	96	106	102	98	95	98	94	92	
2	99	91	85	79	97	90	83	78	86	81	76	
3	91	81	73	67	89	79	72	66	76	70	65	
4	84	72	64	57	82	71	63	57	68	61	56	
5	77	65	56	50	75	64	56	49	62	54	49	
6	72	59	50	44	70	58	50	44	56	49	43	
7	67	54	45	39	65	53	45	39	51	44	39	
8	62	49	41	35	61	48	40	35	47	40	35	
9	58	45	37	32	57	45	37	32	43	36	32	
10	55	42	34	29	54	41	34	29	40	34	29	

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	4702	2528	2051
55	3966	1866	1486
65	3281	1264	998
75	2607	765	624
85	1806	389	350

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1062.1	1062.1	1062.1	1062.1	1062.1
5	1087.01	1068.17	1051.46	1044.02	1054.91
10	1034.92	1041.36	1027.56	1017.38	1027.06
15	1002.2	986.5	983.79	960.73	965.04
20	956.7	947.19	928.36	909.84	906.33
25	884.31	879.6	860.57	835.03	833.11
30	828.13	813.57	785.48	755.54	745.49
35	760.61	732.84	705.34	671.98	653.15
40	670.44	659.08	621.83	584.34	577.15
45	593.72	570.8	535.9	503.99	491.54
50	508.24	492.22	457.85	425.88	419.92
55	424.69	417.73	385.16	359.06	354.23
60	345.59	338.51	314.02	294.94	292.08
65	277.75	266.73	245.98	237.12	229.59
70	209.23	202.5	186.43	180.65	179.77
75	155.53	139.51	135.18	133.28	133.85
80	106.04	86.09	89.75	94.51	94.76
85	59.31	47.78	59.76	65.17	67.35
90	25.65	30.74	43.94	50.7	54.23

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	376.40	15.40</