

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE8LEDOS-10L35KEX-AR8223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-006\_M-10L  
[TESTLAB] Intertek  
[ISSUE DATE] 09/19/2016  
[UPDATE] 10/28/2016  
[LAB-REF LUMCAT] CRT1609071034-003\_M-10L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGE8LEDOS-10L-35K-EX-AR8223OS-SG-SO  
[LUMINAIRE] 8" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE  
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS  
[OTHER] 79 DEGREE BEAM ANGLE  
[LAMP] N/A  
[LAMP CAT] N/A  
[OTHER] TOTAL LUMINAIRE WATTS IS APPROXIMATE  
[OTHER] PHOTOMETRIC MEASUREMENTS TAKEN AT 120VAC  
[OTHER] CCT OUTPUT MULTIPLIERS: 40K x 1.0, 30K x 1.0, 27K x 0.945  
[OTHER] THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6887	6955	6929
55	1314	1310	1266
65	43	46	32
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	629.652	629.652	629.652	629.652	629.652	629.652	629.652	629.652	629.652	629.652
2.5	626.261	631.399	628.316	631.741	627.118	631.741	628.316	631.399	626.261	631.399
5.0	623.932	622.186	625.474	627.631	624.549	627.631	625.474	622.186	623.932	622.186
7.5	618.658	617.288	620.816	620.713	619.035	620.713	620.816	617.288	618.658	617.288
10.0	615.644	618.624	614.753	617.185	617.322	617.185	614.753	618.624	615.644	618.624
12.5	611.157	610.986	608.965	606.602	610.369	606.602	608.965	610.986	611.157	610.986
15.0	600.540	599.067	596.532	600.505	601.053	600.505	596.532	599.067	600.540	599.067
17.5	587.627	588.415	587.216	591.772	589.100	591.772	587.216	588.415	587.627	588.415
20.0	573.962	574.475	572.968	578.928	576.291	578.928	572.968	574.475	573.962	574.475
22.5	556.083	557.864	559.097	555.638	558.755	555.638	559.097	557.864	556.083	557.864
25.0	539.917	539.643	540.945	538.444	537.280	538.444	540.945	539.643	539.917	539.643
27.5	511.901	510.154	514.606	512.209	507.311	512.209	514.606	510.154	511.901	510.154
30.0	485.083	483.233	483.679	479.329	483.713	479.329	483.679	483.233	485.083	483.233
32.5	447.408	445.627	448.093	447.339	443.812	447.339	448.093	445.627	447.408	445.627
35.0	413.055	401.307	406.274	403.225	405.006	403.225	406.274	401.307	413.055	401.307
37.5	358.700	357.741	356.303	354.762	355.584	354.762	356.303	357.741	358.700	357.741
40.0	303.661	300.475	299.208	301.332	302.188	301.332	299.208	300.475	303.661	300.475
42.5	220.536	220.399	218.241	218.652	218.310	218.652	218.241	220.399	220.536	220.399
45.0	136.726	138.952	138.062	138.781	137.548	138.781	138.062	138.952	136.726	138.952
47.5	78.604	80.042	80.933	81.138	79.118	81.138	80.933	80.042	78.604	80.042
50.0	48.498	48.841	49.046	49.252	48.498	49.252	49.046	48.841	48.498	48.841
52.5	31.887	31.955	31.921	31.750	31.202	31.750	31.921	31.955	31.887	31.955
55.0	21.167	21.372	21.098	20.927	20.379	20.927	21.098	21.372	21.167	21.372
57.5	14.317	14.419	14.248	14.008	13.837	14.008	14.248	14.419	14.317	14.419
60.0	9.248	9.179	9.076	8.871	8.597	8.871	9.076	9.179	9.248	9.179
62.5	4.316	4.487	4.316	4.144	3.870	4.144	4.316	4.487	4.316	4.487
65.0	0.514	0.480	0.548	0.514	0.377	0.514	0.548	0.480	0.514	0.480
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	629.652	629.652	629.652	629.652	629.652	629.652	629.652
2.5	628.316	631.741	627.118	631.741	628.316	631.399	626.261
5.0	625.474	627.631	624.549	627.631	625.474	622.186	623.932
7.5	620.816	620.713	619.035	620.713	620.816	617.288	618.658
10.0	614.753	617.185	617.322	617.185	614.753	618.624	615.644
12.5	608.965	606.602	610.369	606.602	608.965	610.986	611.157
15.0	596.532	600.505	601.053	600.505	596.532	599.067	600.540
17.5	587.216	591.772	589.100	591.772	587.216	588.415	587.627
20.0	572.968	578.928	576.291	578.928	572.968	574.475	573.962
22.5	559.097	555.638	558.755	555.638	559.097	557.864	556.083
25.0	540.945	538.444	537.280	538.444	540.945	539.643	539.917
27.5	514.606	512.209	507.311	512.209	514.606	510.154	511.901
30.0	483.679	479.329	483.713	479.329	483.679	483.233	485.083

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**CANDELA TABULATION - (Cont.)**

32.5	448.093	447.339	443.812	447.339	448.093	445.627	447.408
35.0	406.274	403.225	405.006	403.225	406.274	401.307	413.055
37.5	356.303	354.762	355.584	354.762	356.303	357.741	358.700
40.0	299.208	301.332	302.188	301.332	299.208	300.475	303.661
42.5	218.241	218.652	218.310	218.652	218.241	220.399	220.536
45.0	138.062	138.781	137.548	138.781	138.062	138.952	136.726
47.5	80.933	81.138	79.118	81.138	80.933	80.042	78.604
50.0	49.046	49.252	48.498	49.252	49.046	48.841	48.498
52.5	31.921	31.750	31.202	31.750	31.921	31.955	31.887
55.0	21.098	20.927	20.379	20.927	21.098	21.372	21.167
57.5	14.248	14.008	13.837	14.008	14.248	14.419	14.317
60.0	9.076	8.871	8.597	8.871	9.076	9.179	9.248
62.5	4.316	4.144	3.870	4.144	4.316	4.487	4.316
65.0	0.548	0.514	0.377	0.514	0.548	0.480	0.514
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	228.38	N.A.	26.50
0-30	474.49	N.A.	55.00
0-40	723.54	N.A.	83.90
0-60	860.57	N.A.	99.70
0-80	862.81	N.A.	100.00
0-90	862.81	N.A.	100.00
10-90	803.46	N.A.	93.10
20-40	495.16	N.A.	57.40
20-50	610.98	N.A.	70.80
40-70	139.27	N.A.	16.10
60-80	2.24	N.A.	0.30
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	862.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

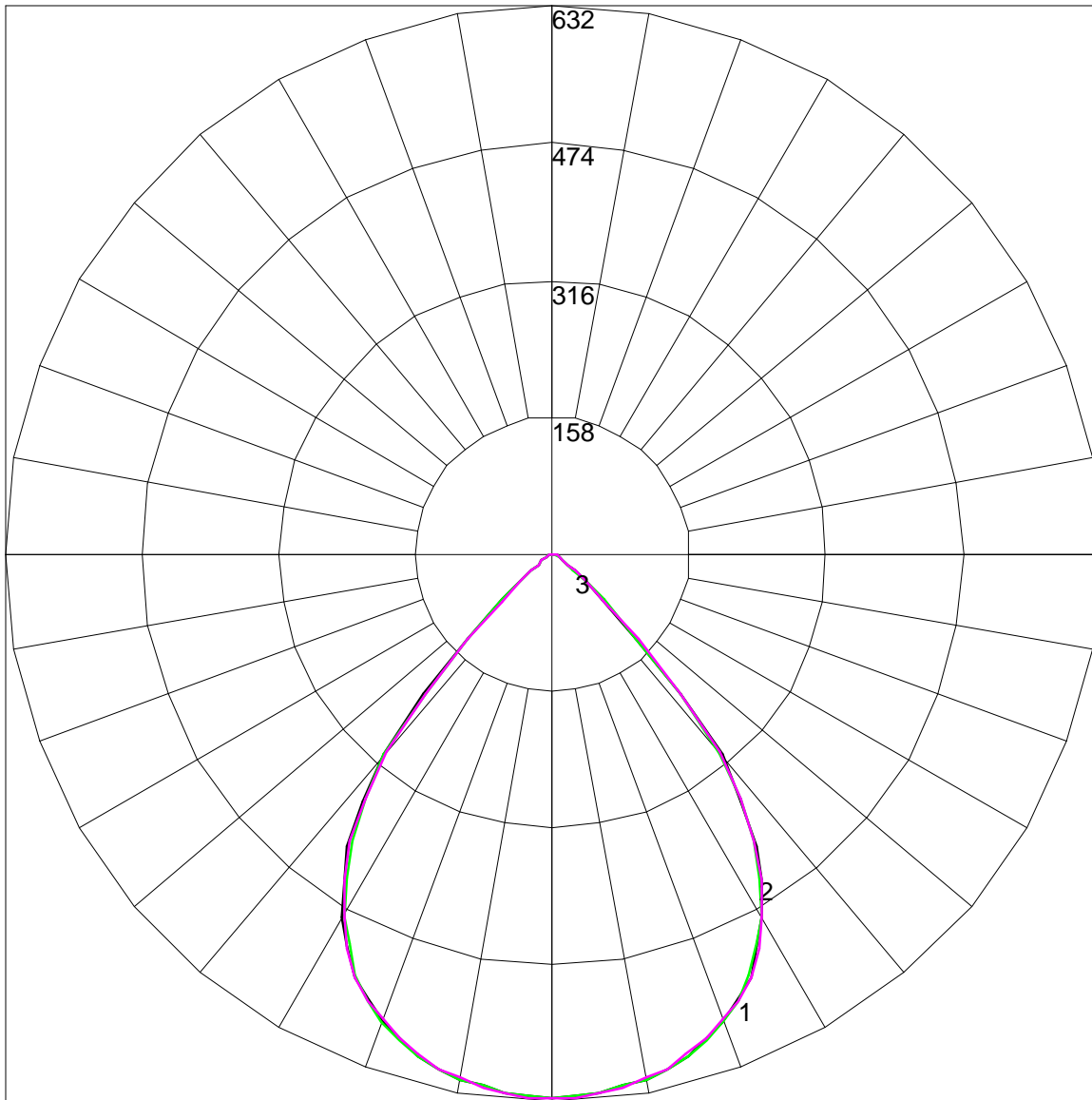
Zone	Lumens
0-10	59.35
10-20	169.03
20-30	246.10
30-40	249.05
40-50	115.83
50-60	21.20
60-70	2.24
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66	64
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46
10	66	55	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 631.741 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)