

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4LEDOS-10L35KEX-AR4223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-004_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/28/2016
[LAB-REF LUMCAT] CRT1609071034-002_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE4LEDOS-10L-35K-EX-AR4223OS-SG-SO
[LUMINAIRE] 4" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] SHALLOW PROFILE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 48.5 DEGREE BEAM ANGLE
[LAMP] N/A
[LAMPCAT] 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	810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	13709	13636	13757
55	5849	5796	5939
65	1100	1100	1162
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	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225
2.5	1083.225	1084.252	1085.657	1082.129	1083.704	1082.129	1085.657	1084.252	1083.225	1084.252
5.0	1057.914	1059.935	1059.524	1058.359	1055.756	1058.359	1059.524	1059.935	1057.914	1059.935
7.5	1013.081	1010.718	1015.718	1013.492	1015.102	1013.492	1015.718	1010.718	1013.081	1010.718
10.0	952.869	948.588	950.027	951.157	950.164	951.157	950.027	948.588	952.869	948.588
12.5	876.560	874.848	872.553	867.210	874.951	867.210	872.553	874.848	876.560	874.848
15.0	797.957	795.559	793.744	798.059	801.005	798.059	793.744	795.559	797.957	795.559
17.5	715.962	719.524	718.188	726.717	722.641	726.717	718.188	719.524	715.962	719.524
20.0	651.743	653.798	654.620	651.264	652.600	651.264	654.620	653.798	651.743	653.798
22.5	585.572	583.723	590.333	589.751	593.073	589.751	590.333	583.723	585.572	583.723
25.0	529.094	525.909	529.060	523.820	519.504	523.820	529.060	525.909	529.094	525.909
27.5	460.320	457.340	455.696	457.991	460.902	457.991	455.696	457.340	460.320	457.340
30.0	391.067	388.738	387.265	389.114	393.533	389.114	387.265	388.738	391.067	388.738
32.5	321.265	320.991	321.984	320.957	320.066	320.957	321.984	320.991	321.265	320.991
35.0	254.375	254.923	256.498	255.128	253.895	255.128	256.498	254.923	254.375	254.923
37.5	193.102	193.547	194.677	193.889	193.273	193.889	194.677	193.547	193.102	193.547
40.0	142.035	142.001	141.692	142.446	142.480	142.446	141.692	142.001	142.035	142.001
42.5	103.504	103.264	102.339	103.949	104.257	103.949	102.339	103.264	103.504	103.264
45.0	77.097	77.131	76.686	77.097	77.371	77.097	76.686	77.131	77.097	77.131
47.5	58.602	58.533	58.259	58.568	58.705	58.568	58.259	58.533	58.602	58.533
50.0	45.450	45.107	44.970	45.347	45.518	45.347	44.970	45.107	45.450	45.107
52.5	35.175	34.798	34.593	35.278	35.380	35.278	34.593	34.798	35.175	34.798
55.0	26.681	26.475	26.441	26.921	27.092	26.921	26.441	26.475	26.681	26.475
57.5	19.797	19.797	19.728	20.139	20.071	20.139	19.728	19.797	19.797	19.797
60.0	13.803	14.008	13.974	14.145	14.214	14.145	13.974	14.008	13.803	14.008
62.5	8.597	8.563	8.528	8.734	8.734	8.734	8.528	8.563	8.597	8.563
65.0	3.699	3.733	3.699	3.768	3.905	3.768	3.699	3.733	3.699	3.733
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	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225	1088.225
2.5	1085.657	1082.129	1083.704	1082.129	1085.657	1084.252	1083.225
5.0	1059.524	1058.359	1055.756	1058.359	1059.524	1059.935	1057.914
7.5	1015.718	1013.492	1015.102	1013.492	1015.718	1010.718	1013.081
10.0	950.027	951.157	950.164	951.157	950.027	948.588	952.869
12.5	872.553	867.210	874.951	867.210	872.553	874.848	876.560
15.0	793.744	798.059	801.005	798.059	793.744	795.559	797.957
17.5	718.188	726.717	722.641	726.717	718.188	719.524	715.962
20.0	654.620	651.264	652.600	651.264	654.620	653.798	651.743
22.5	590.333	589.751	593.073	589.751	590.333	583.723	585.572
25.0	529.060	523.820	519.504	523.820	529.060	525.909	529.094
27.5	455.696	457.991	460.902	457.991	455.696	457.340	460.320
30.0	387.265	389.114	393.533	389.114	387.265	388.738	391.067

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PHOTOMETRIC FILENAME : SGE4LEDOS-10L35KEX-AR4223OSSGSO.IES

CANDELA TABULATION - (Cont.)

32.5	321.984	320.957	320.066	320.957	321.984	320.991	321.265
35.0	256.498	255.128	253.895	255.128	256.498	254.923	254.375
37.5	194.677	193.889	193.273	193.889	194.677	193.547	193.102
40.0	141.692	142.446	142.480	142.446	141.692	142.001	142.035
42.5	102.339	103.949	104.257	103.949	102.339	103.264	103.504
45.0	76.686	77.097	77.371	77.097	76.686	77.131	77.097
47.5	58.259	58.568	58.705	58.568	58.259	58.533	58.602
50.0	44.970	45.347	45.518	45.347	44.970	45.107	45.450
52.5	34.593	35.278	35.380	35.278	34.593	34.798	35.175
55.0	26.441	26.921	27.092	26.921	26.441	26.475	26.681
57.5	19.728	20.139	20.071	20.139	19.728	19.797	19.797
60.0	13.974	14.145	14.214	14.145	13.974	14.008	13.803
62.5	8.528	8.734	8.734	8.734	8.528	8.563	8.597
65.0	3.699	3.768	3.905	3.768	3.699	3.733	3.699
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	319.44	N.A.	39.40
0-30	558.10	N.A.	68.90
0-40	717.72	N.A.	88.60
0-60	805.78	N.A.	99.40
0-80	810.50	N.A.	100.00
0-90	810.50	N.A.	100.00
10-90	712.93	N.A.	88.00
20-40	398.27	N.A.	49.10
20-50	461.67	N.A.	57.00
40-70	92.78	N.A.	11.40
60-80	4.71	N.A.	0.60
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	810.50	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

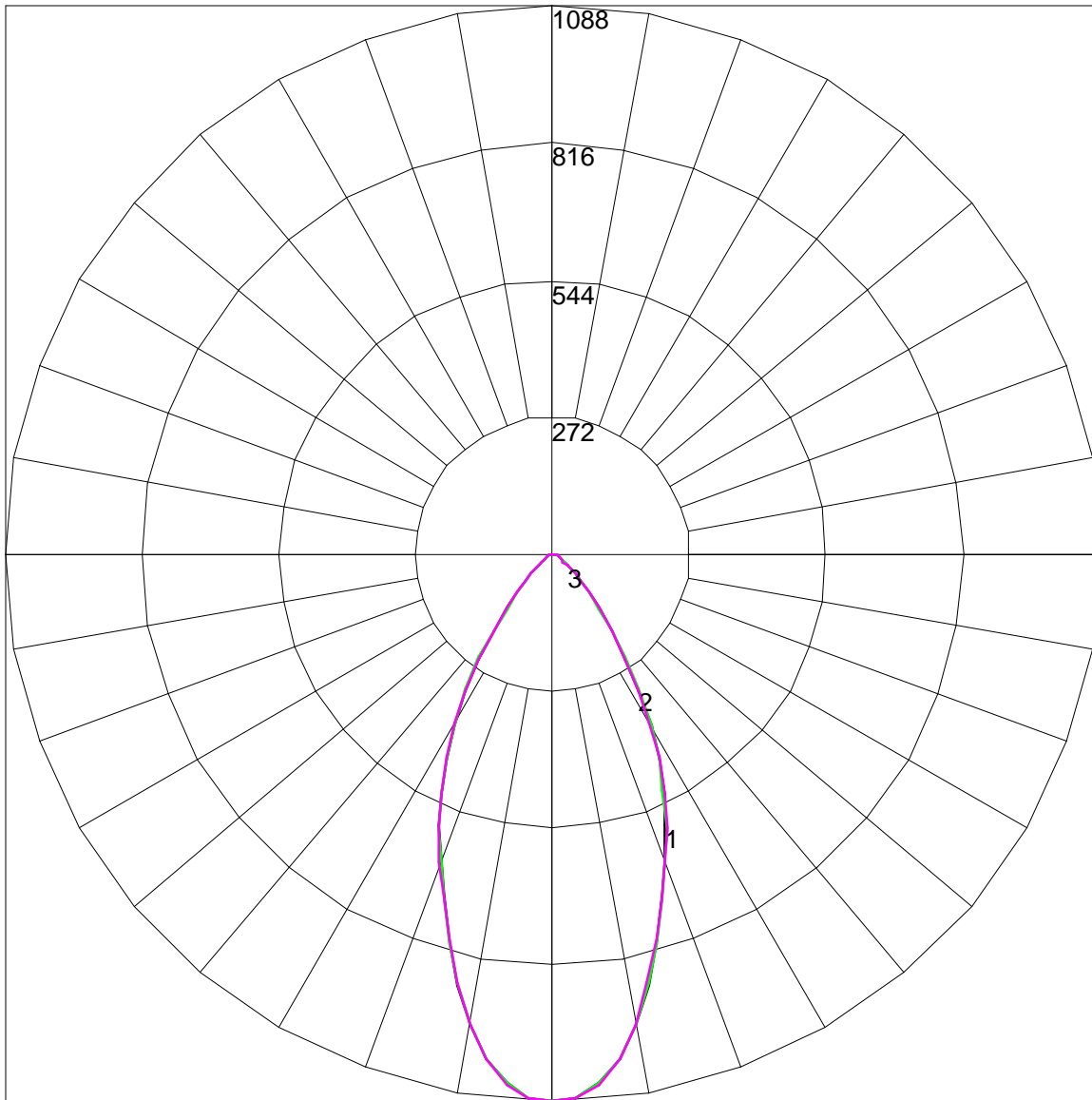
Zone	Lumens
0-10	97.57
10-20	221.87
20-30	238.65
30-40	159.62
40-50	63.39
50-60	24.68
60-70	4.71
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	114	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	66	61	58	57
9	75	65	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	50

POLAR GRAPH



Maximum Candela = 1088.225 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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