

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KE1-AR5223OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141007_M-10L-Gen3
[TESTLAB]OSRAM SYLVANIA
[TESTDATE]8/12/2014
[ISSUEDATE]8/12/2014
[UPDATE]11/14/2016
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE5LEDOS-10L-35K-EX-AR5223OS-MW-SO
[LUMINAIRE]5" DIAM., OPEN APERTURE LED DOWNLIGHT
[OTHER]SHALLOW PROFILE, MATTE WHITE LOWER CONE
[OTHER]INTEGRAL, REGRESSED SOLITE GLASS LENS
[OTHER]70.2 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]CATALOG NUMBER DESIGNATION UPDATE: 14W NOW CALLED 10L
[OTHER]THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM 30L, GEN2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	838
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.42 ft (Diameter)
Luminous Width (90-270)	0.42 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	12835	12884	12858
55	7288	7316	7317
65	4763	4786	4800
75	3605	3612	3629
85	2880	2926	2959

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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	616.882	616.882	616.882	616.882	616.882	616.882	616.882	616.882	616.882	616.882
2.5	619.397	617.608	617.513	616.708	616.238	616.708	617.513	617.608	619.397	617.608
5.0	618.088	615.440	615.723	615.270	614.343	615.270	615.723	615.440	618.088	615.440
7.5	615.529	612.908	613.907	613.011	612.111	613.011	613.907	612.908	615.529	612.908
10.0	610.710	609.476	608.389	607.646	607.837	607.646	608.389	609.476	610.710	609.476
12.5	604.037	601.563	602.521	601.386	600.118	601.386	602.521	601.563	604.037	601.563
15.0	595.667	593.646	592.866	591.694	592.014	591.694	592.866	593.646	595.667	593.646
17.5	584.029	582.604	581.275	580.341	579.922	580.341	581.275	582.604	584.029	582.604
20.0	568.812	566.713	566.924	565.915	565.026	565.915	566.924	566.713	568.812	566.713
22.5	546.606	544.039	544.373	543.082	543.671	543.082	544.373	544.039	546.606	544.039
25.0	515.555	514.676	513.214	513.848	512.795	513.848	513.214	514.676	515.555	514.676
27.5	478.047	476.547	474.932	474.966	475.556	474.966	474.932	476.547	478.047	476.547
30.0	432.025	431.074	429.895	428.873	428.512	428.873	429.895	431.074	432.025	431.074
32.5	374.737	372.781	372.368	371.581	371.905	371.581	372.368	372.781	374.737	372.781
35.0	311.515	310.762	310.786	309.845	310.810	309.845	310.786	310.762	311.515	310.762
37.5	249.847	249.442	248.781	249.466	249.006	249.466	248.781	249.442	249.847	249.442
40.0	194.171	194.174	193.476	193.854	194.133	193.854	193.476	194.174	194.171	194.174
42.5	149.502	150.126	149.908	149.431	149.802	149.431	149.908	150.126	149.502	150.126
45.0	116.925	117.501	117.368	117.150	117.130	117.150	117.368	117.501	116.925	117.501
47.5	93.737	93.761	93.580	94.003	93.723	94.003	93.580	93.761	93.737	93.761
50.0	76.489	76.615	76.598	76.861	76.738	76.861	76.598	76.615	76.489	76.615
52.5	63.863	64.118	64.104	63.975	64.033	63.975	64.104	64.118	63.863	64.118
55.0	53.857	54.197	54.065	54.051	54.068	54.051	54.065	54.197	53.857	54.197
57.5	45.742	45.841	45.906	46.093	46.018	46.093	45.906	45.841	45.742	45.841
60.0	38.439	38.562	38.589	38.705	38.674	38.705	38.589	38.562	38.439	38.562
62.5	31.527	31.609	31.715	31.684	31.834	31.684	31.715	31.609	31.527	31.609
65.0	25.935	26.020	26.058	26.098	26.136	26.098	26.058	26.020	25.935	26.020
67.5	20.261	20.301	20.278	20.373	20.400	20.373	20.278	20.301	20.261	20.301
70.0	17.268	17.299	17.272	17.336	17.371	17.336	17.272	17.299	17.268	17.299
72.5	14.603	14.610	14.603	14.637	14.685	14.637	14.603	14.610	14.603	14.610
75.0	12.020	12.044	12.044	12.115	12.102	12.115	12.044	12.044	12.020	12.044
77.5	9.611	9.662	9.641	9.761	9.696	9.761	9.641	9.662	9.611	9.662
80.0	7.378	7.399	7.419	7.525	7.457	7.525	7.419	7.399	7.378	7.399
82.5	5.245	5.265	5.334	5.398	5.330	5.398	5.334	5.265	5.245	5.265
85.0	3.234	3.299	3.285	3.371	3.323	3.371	3.285	3.299	3.234	3.299
87.5	1.380	1.540	1.520	1.500	1.442	1.500	1.520	1.540	1.380	1.540
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	616.882	616.882	616.882	616.882	616.882	616.882	616.882
2.5	617.513	616.708	616.238	616.708	617.513	617.608	619.397
5.0	615.723	615.270	614.343	615.270	615.723	615.440	618.088
7.5	613.907	613.011	612.111	613.011	613.907	612.908	615.529
10.0	608.389	607.646	607.837	607.646	608.389	609.476	610.710
12.5	602.521	601.386	600.118	601.386	602.521	601.563	604.037
15.0	592.866	591.694	592.014	591.694	592.866	593.646	595.667
17.5	581.275	580.341	579.922	580.341	581.275	582.604	584.029
20.0	566.924	565.915	565.026	565.915	566.924	566.713	568.812
22.5	544.373	543.082	543.671	543.082	544.373	544.039	546.606
25.0	513.214	513.848	512.795	513.848	513.214	514.676	515.555
27.5	474.932	474.966	475.556	474.966	474.932	476.547	478.047
30.0	429.895	428.873	428.512	428.873	429.895	431.074	432.025
32.5	372.368	371.581	371.905	371.581	372.368	372.781	374.737
35.0	310.786	309.845	310.810	309.845	310.786	310.762	311.515
37.5	248.781	249.466	249.006	249.466	248.781	249.442	249.847
40.0	193.476	193.854	194.133	193.854	193.476	194.174	194.171
42.5	149.908	149.431	149.802	149.431	149.908	150.126	149.502
45.0	117.368	117.150	117.130	117.150	117.368	117.501	116.925
47.5	93.580	94.003	93.723	94.003	93.580	93.761	93.737
50.0	76.598	76.861	76.738	76.861	76.598	76.615	76.489
52.5	64.104	63.975	64.033	63.975	64.104	64.118	63.863
55.0	54.065	54.051	54.068	54.051	54.065	54.197	53.857
57.5	45.906	46.093	46.018	46.093	45.906	45.841	45.742
60.0	38.589	38.705	38.674	38.705	38.589	38.562	38.439
62.5	31.715	31.684	31.834	31.684	31.715	31.609	31.527
65.0	26.058	26.098	26.136	26.098	26.058	26.020	25.935
67.5	20.278	20.373	20.400	20.373	20.278	20.301	20.261
70.0	17.272	17.336	17.371	17.336	17.272	17.299	17.268
72.5	14.603	14.637	14.685	14.637	14.603	14.610	14.603
75.0	12.044	12.115	12.102	12.115	12.044	12.044	12.020
77.5	9.641	9.761	9.696	9.761	9.641	9.662	9.611
80.0	7.419	7.525	7.457	7.525	7.419	7.399	7.378

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82.5	5.334	5.398	5.330	5.398	5.334	5.265	5.245
85.0	3.285	3.371	3.323	3.371	3.285	3.299	3.234
87.5	1.520	1.500	1.442	1.500	1.520	1.540	1.380
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	225.50	N.A.	26.90
0-30	458.82	N.A.	54.70
0-40	651.31	N.A.	77.70
0-60	795.54	N.A.	94.90
0-80	834.56	N.A.	99.60
0-90	838.33	N.A.	100.00
10-90	779.76	N.A.	93.00
20-40	425.81	N.A.	50.80
20-50	520.64	N.A.	62.10
40-70	170.40	N.A.	20.30
60-80	39.02	N.A.	4.70
70-80	12.85	N.A.	1.50
80-90	3.77	N.A.	0.40
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	838.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.57
10-20	166.94
20-30	233.32
30-40	192.49
40-50	94.83
50-60	49.40
60-70	26.17
70-80	12.85
80-90	3.77
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

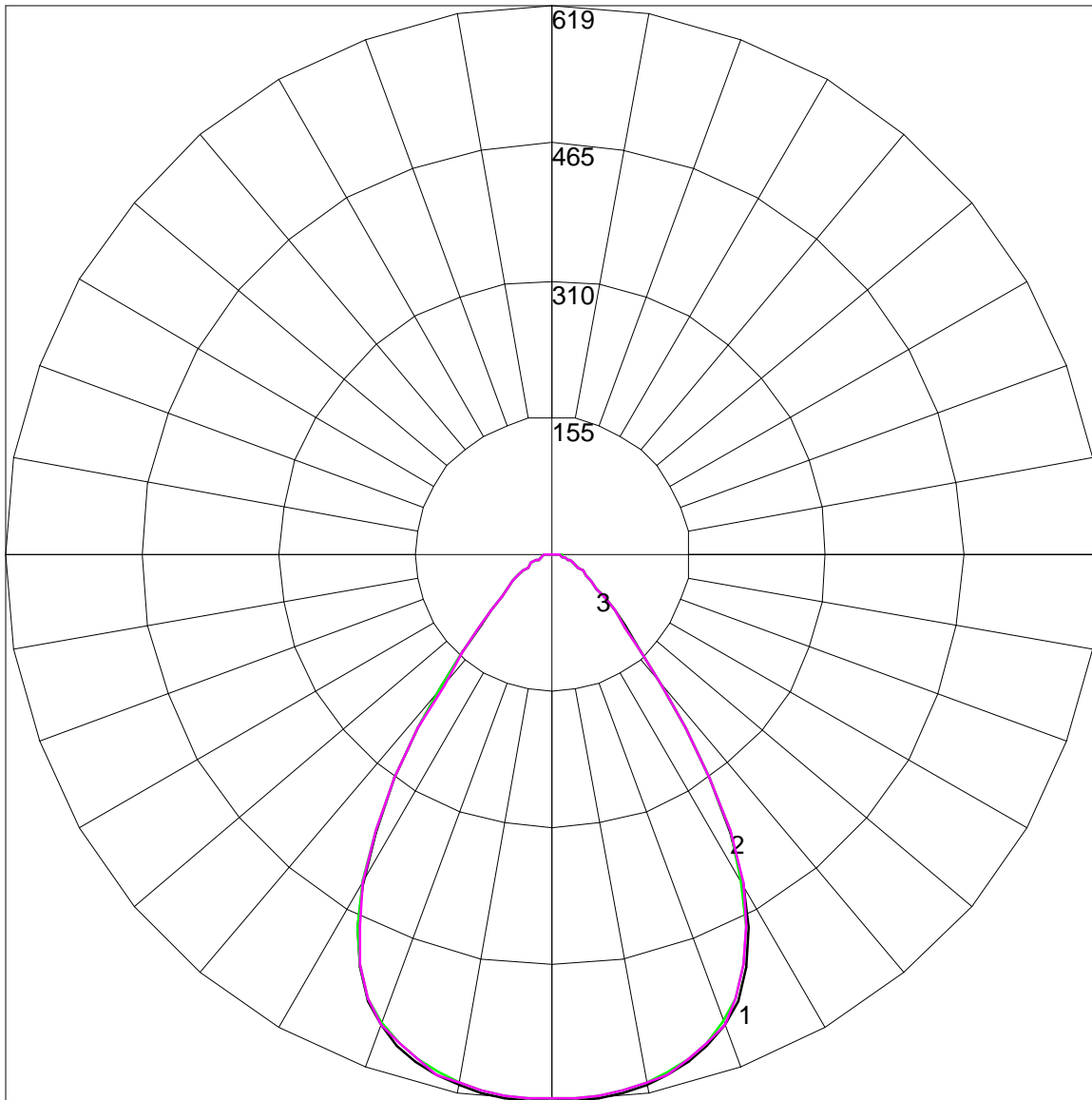
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 619.397 Located At Horizontal Angle = 0, 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)