

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6--SQLEDOS-10L35KE1--OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141023_M-10L-Gen3
[TESTLAB]OSRAM SYLVANIA
[ISSUE DATE]
[TEST DATE]8/14/2014
[UPDATE]11/11/2016
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE6SQLEDOS-10L-35K-E1-CA0366OS-MW-SO
[LUMINAIRE]6" Square, LED recessed downlight
[TRIM]Cast Alum, Matte White finish, regressed Solite lens
[OTHER]69.4 Degree Beam Angle
[LAMP]N/A
[LAMPCAT]N/A
[OTHER]Total Luminaire Watts is approximate
[OTHER]Photometric measurements taken at 120VAC
[OTHER]Data applicable for Housing: SGE6PZSQLEDOS
[OTHER]Data applicable for Trims: SD6NOS-MS-SO and TP0366OS-MW-SO
[OTHER]Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946
[OTHER]Catalog number designation update: 14W is now called 10L
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	932
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.48 ft
Luminous Width (90-270)	0.48 ft
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	7434	11530	7208
55	5812	6268	5791
65	5688	5658	5668
75	5458	5365	5466
85	4727	4782	4822

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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	593.278	593.278	593.278	593.278	593.278	593.278	593.278	593.278	593.278	593.278
2.5	592.181	591.748	591.196	591.145	591.983	591.145	591.196	591.748	592.181	591.748
5.0	589.172	588.432	588.834	588.125	588.299	588.125	588.834	588.432	589.172	588.432
7.5	585.682	585.511	583.197	584.366	585.368	584.366	583.197	585.511	585.682	585.511
10.0	581.309	579.319	579.142	579.190	580.048	579.190	579.142	579.319	581.309	579.319
12.5	574.061	572.844	573.372	572.581	573.065	572.581	573.372	572.844	574.061	572.844
15.0	565.397	565.319	567.732	565.060	564.733	565.060	567.732	565.319	565.397	565.319
17.5	554.761	555.184	560.561	556.281	555.749	556.281	560.561	555.184	554.761	555.184
20.0	545.297	546.790	550.743	547.587	546.371	547.587	550.743	546.790	545.297	546.790
22.5	533.355	535.151	539.353	538.447	535.646	538.447	539.353	535.151	533.355	535.151
25.0	511.088	519.720	524.290	524.137	514.768	524.137	524.290	519.720	511.088	519.720
27.5	474.175	492.551	507.601	498.386	476.554	498.386	507.601	492.551	474.175	492.551
30.0	419.951	451.073	484.277	457.095	420.643	457.095	484.277	451.073	419.951	451.073
32.5	353.614	394.772	453.179	401.193	355.550	401.193	453.179	394.772	353.614	394.772
35.0	286.773	330.763	410.507	336.482	284.640	336.482	410.507	330.763	286.773	330.763
37.5	224.458	266.795	353.174	268.857	220.317	268.857	353.174	266.795	224.458	266.795
40.0	172.806	208.897	288.589	209.507	169.316	209.507	288.589	208.897	172.806	208.897
42.5	137.145	162.783	226.952	162.176	133.287	162.176	226.952	162.783	137.145	162.783
45.0	112.617	130.223	174.680	128.338	109.192	128.338	174.680	130.223	112.617	130.223
47.5	95.615	107.700	134.786	105.679	93.458	105.679	134.786	107.700	95.615	107.700
50.0	84.651	91.852	107.512	90.455	83.315	90.455	107.512	91.852	84.651	91.852
52.5	77.372	81.284	89.324	80.551	76.636	80.551	89.324	81.284	77.372	81.284
55.0	71.428	74.005	77.028	73.606	71.162	73.606	77.028	74.005	71.428	74.005
57.5	66.265	68.030	68.399	67.792	66.020	67.792	68.399	68.030	66.265	68.030
60.0	61.361	62.632	61.920	62.523	61.078	62.523	61.920	62.632	61.361	62.632
62.5	56.396	57.421	56.392	57.377	56.201	57.377	56.392	57.421	56.396	57.421
65.0	51.502	52.245	51.232	52.211	51.324	52.211	51.232	52.245	51.502	52.245
67.5	46.649	47.047	45.994	46.986	46.458	46.986	45.994	47.047	46.649	47.047
70.0	41.663	41.820	40.746	41.830	41.550	41.830	40.746	41.820	41.663	41.820
72.5	36.380	36.374	35.341	36.428	36.380	36.428	35.341	36.374	36.380	36.374
75.0	30.263	30.583	29.752	30.788	30.311	30.788	29.752	30.583	30.263	30.583
77.5	24.347	24.623	24.262	24.923	24.473	24.923	24.262	24.623	24.347	24.623
80.0	18.792	19.058	18.839	19.456	18.884	19.456	18.839	19.058	18.792	19.058
82.5	13.618	13.840	13.755	14.215	13.741	14.215	13.755	13.840	13.618	13.840
85.0	8.827	8.953	8.929	9.348	9.004	9.348	8.929	8.953	8.827	8.953
87.5	4.482	4.499	4.529	4.877	4.655	4.877	4.529	4.499	4.482	4.499
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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CANDELA TABULATION - (Cont.)

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	593.278	593.278	593.278	593.278	593.278	593.278	593.278
2.5	591.196	591.145	591.983	591.145	591.196	591.748	592.181
5.0	588.834	588.125	588.299	588.125	588.834	588.432	589.172
7.5	583.197	584.366	585.368	584.366	583.197	585.511	585.682
10.0	579.142	579.190	580.048	579.190	579.142	579.319	581.309
12.5	573.372	572.581	573.065	572.581	573.372	572.844	574.061
15.0	567.732	565.060	564.733	565.060	567.732	565.319	565.397
17.5	560.561	556.281	555.749	556.281	560.561	555.184	554.761
20.0	550.743	547.587	546.371	547.587	550.743	546.790	545.297
22.5	539.353	538.447	535.646	538.447	539.353	535.151	533.355
25.0	524.290	524.137	514.768	524.137	524.290	519.720	511.088
27.5	507.601	498.386	476.554	498.386	507.601	492.551	474.175
30.0	484.277	457.095	420.643	457.095	484.277	451.073	419.951
32.5	453.179	401.193	355.550	401.193	453.179	394.772	353.614
35.0	410.507	336.482	284.640	336.482	410.507	330.763	286.773
37.5	353.174	268.857	220.317	268.857	353.174	266.795	224.458
40.0	288.589	209.507	169.316	209.507	288.589	208.897	172.806
42.5	226.952	162.176	133.287	162.176	226.952	162.783	137.145
45.0	174.680	128.338	109.192	128.338	174.680	130.223	112.617
47.5	134.786	105.679	93.458	105.679	134.786	107.700	95.615
50.0	107.512	90.455	83.315	90.455	107.512	91.852	84.651
52.5	89.324	80.551	76.636	80.551	89.324	81.284	77.372
55.0	77.028	73.606	71.162	73.606	77.028	74.005	71.428
57.5	68.399	67.792	66.020	67.792	68.399	68.030	66.265
60.0	61.920	62.523	61.078	62.523	61.920	62.632	61.361
62.5	56.392	57.377	56.201	57.377	56.392	57.421	56.396
65.0	51.232	52.211	51.324	52.211	51.232	52.245	51.502
67.5	45.994	46.986	46.458	46.986	45.994	47.047	46.649
70.0	40.746	41.830	41.550	41.830	40.746	41.820	41.663
72.5	35.341	36.428	36.380	36.428	35.341	36.374	36.380
75.0	29.752	30.788	30.311	30.788	29.752	30.583	30.263
77.5	24.262	24.923	24.473	24.923	24.262	24.623	24.347
80.0	18.839	19.456	18.884	19.456	18.839	19.058	18.792

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CANDELA TABULATION - (Cont.)

82.5	13.755	14.215	13.741	14.215	13.755	13.840	13.618
85.0	8.929	9.348	9.004	9.348	8.929	8.953	8.827
87.5	4.529	4.877	4.655	4.877	4.529	4.499	4.482
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	215.55	N.A.	23.10
0-30	451.66	N.A.	48.40
0-40	661.69	N.A.	71.00
0-60	839.03	N.A.	90.00
0-80	922.28	N.A.	98.90
0-90	932.36	N.A.	100.00
10-90	876.46	N.A.	94.00
20-40	446.14	N.A.	47.90
20-50	556.14	N.A.	59.60
40-70	228.60	N.A.	24.50
60-80	83.25	N.A.	8.90
70-80	32.00	N.A.	3.40
80-90	10.08	N.A.	1.10
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	932.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.90
10-20	159.65
20-30	236.11
30-40	210.03
40-50	110.00
50-60	67.33
60-70	51.26
70-80	32.00
80-90	10.08
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

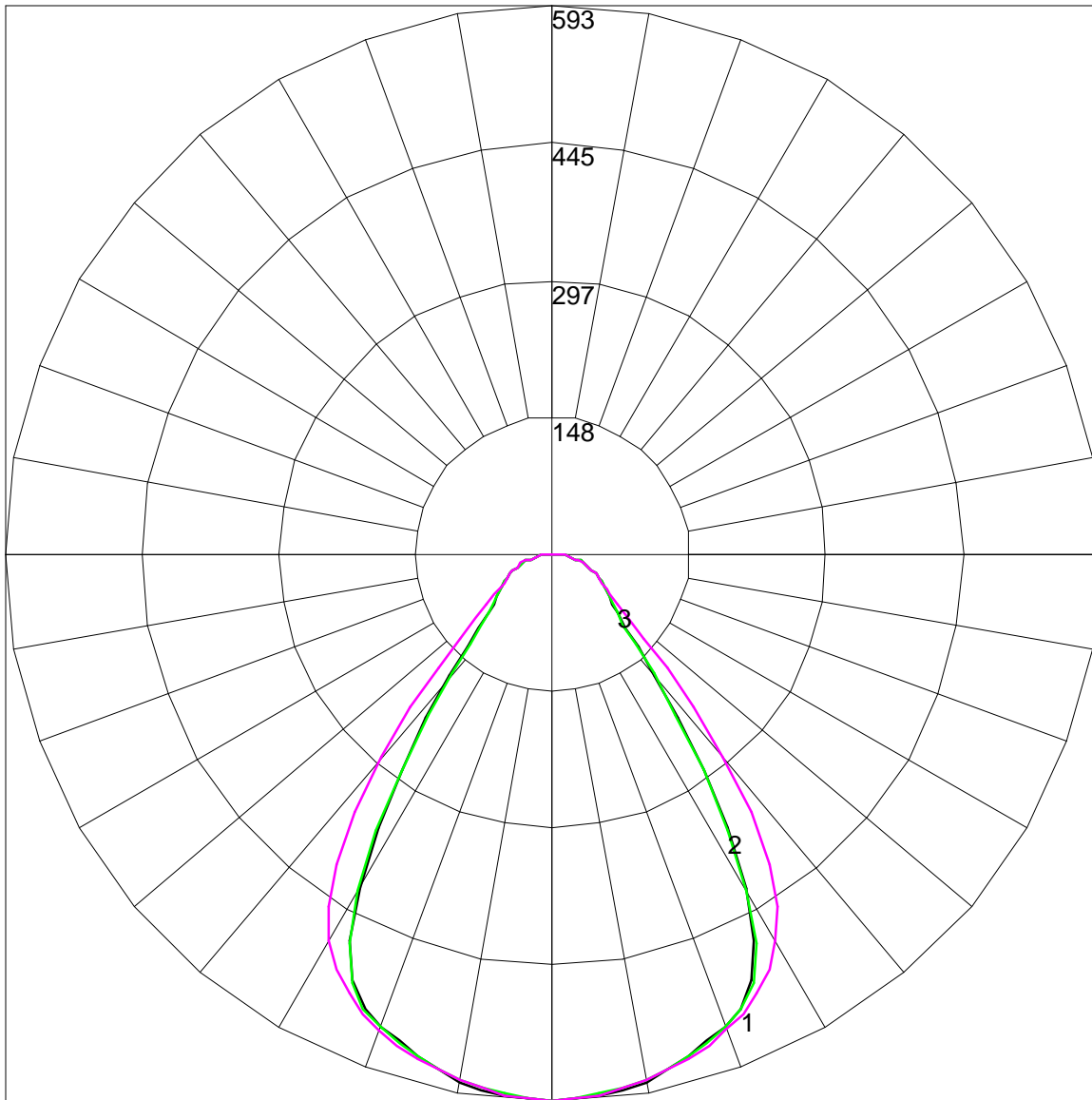
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37

POLAR GRAPH



Maximum Candela = 593.278 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)