

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6SQLEDOS-10L35KEX-CA0366OS-SGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-019_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-003B_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE6SQLEDOS-10L-35K-E1-CA0366OS-SG-SO
[LUMINAIRE] 6" Square, LED recessed downlight
[TRIM] Cast Alum, Semi-Diffuse finish, regressed Solite lens
[OTHER] 78.0 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 0.946
[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	815
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.46 ft
Luminous Width (90-270)	0.46 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	10312	14061	10004
55	6015	6188	6024
65	3604	3003	3629
75	1749	1372	1903
85	440	819	699

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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	473.917	473.917	473.917	473.917	473.917	473.917	473.917	473.917	473.917	473.917
2.5	473.986	473.438	474.294	474.191	473.986	474.191	474.294	473.438	473.986	473.438
5.0	474.500	474.123	474.054	474.191	473.335	474.191	474.054	474.123	474.500	474.123
7.5	473.883	473.609	473.712	474.431	472.958	474.431	473.712	473.609	473.883	473.609
10.0	472.068	472.821	473.815	472.650	471.691	472.650	473.815	472.821	472.068	472.821
12.5	467.684	469.670	471.794	470.972	467.958	470.972	471.794	469.670	467.684	469.670
15.0	462.478	463.505	467.478	466.006	462.444	466.006	467.478	463.505	462.478	463.505
17.5	455.422	457.820	460.560	459.567	456.142	459.567	460.560	457.820	455.422	457.820
20.0	449.703	451.621	451.484	452.580	449.600	452.580	451.484	451.621	449.703	451.621
22.5	442.544	445.319	443.640	446.346	442.784	446.346	443.640	445.319	442.544	445.319
25.0	431.995	436.927	435.249	437.681	431.995	437.681	435.249	436.927	431.995	436.927
27.5	413.158	421.720	426.515	424.597	412.644	424.597	426.515	421.720	413.158	421.720
30.0	384.970	398.739	413.295	404.287	384.696	404.287	413.295	398.739	384.970	398.739
32.5	350.515	367.845	396.204	374.421	347.638	374.421	396.204	367.845	350.515	367.845
35.0	309.141	328.526	369.386	339.041	305.407	339.041	369.386	328.526	309.141	328.526
37.5	263.211	284.994	333.527	296.434	258.416	296.434	333.527	284.994	263.211	284.994
40.0	216.905	239.305	290.474	250.402	212.384	250.402	290.474	239.305	216.905	239.305
42.5	176.456	195.910	242.764	205.192	171.867	205.192	242.764	195.910	176.456	195.910
45.0	143.473	158.578	195.636	164.845	139.192	164.845	195.636	158.578	143.473	158.578
47.5	117.752	128.061	153.372	131.520	114.121	131.520	153.372	128.061	117.752	128.061
50.0	97.715	103.949	118.402	105.661	95.112	105.661	118.402	103.949	97.715	103.949
52.5	81.549	85.317	91.002	85.420	80.796	85.420	91.002	85.317	81.549	85.317
55.0	67.884	69.802	69.836	69.391	67.986	69.391	69.836	69.802	67.884	69.802
57.5	56.239	56.958	53.807	56.581	56.650	56.581	53.807	56.958	56.239	56.958
60.0	46.272	46.546	41.785	45.518	46.751	45.518	41.785	46.546	46.272	46.546
62.5	37.607	37.196	32.435	36.442	37.915	36.442	32.435	37.196	37.607	37.196
65.0	29.969	29.455	24.968	28.530	30.174	28.530	24.968	29.455	29.969	29.455
67.5	23.324	22.845	18.975	21.852	23.804	21.852	18.975	22.845	23.324	22.845
70.0	17.776	17.159	14.077	16.337	18.392	16.337	14.077	17.159	17.776	17.159
72.5	13.118	12.296	10.070	11.816	13.700	11.816	10.070	12.296	13.118	12.296
75.0	8.905	8.357	6.987	8.186	9.693	8.186	6.987	8.357	8.905	8.357
77.5	5.412	5.172	4.727	5.480	6.028	5.480	4.727	5.172	5.412	5.172
80.0	3.254	3.288	3.185	3.596	3.733	3.596	3.185	3.288	3.254	3.288
82.5	1.781	1.987	2.158	2.363	2.192	2.363	2.158	1.987	1.781	1.987
85.0	0.754	1.062	1.404	1.576	1.199	1.576	1.404	1.062	0.754	1.062
87.5	0.137	0.411	0.754	0.856	0.548	0.856	0.754	0.411	0.137	0.411
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	473.917	473.917	473.917	473.917	473.917	473.917	473.917
2.5	474.294	474.191	473.986	474.191	474.294	473.438	473.986
5.0	474.054	474.191	473.335	474.191	474.054	474.123	474.500
7.5	473.712	474.431	472.958	474.431	473.712	473.609	473.883
10.0	473.815	472.650	471.691	472.650	473.815	472.821	472.068
12.5	471.794	470.972	467.958	470.972	471.794	469.670	467.684
15.0	467.478	466.006	462.444	466.006	467.478	463.505	462.478
17.5	460.560	459.567	456.142	459.567	460.560	457.820	455.422
20.0	451.484	452.580	449.600	452.580	451.484	451.621	449.703
22.5	443.640	446.346	442.784	446.346	443.640	445.319	442.544
25.0	435.249	437.681	431.995	437.681	435.249	436.927	431.995
27.5	426.515	424.597	412.644	424.597	426.515	421.720	413.158
30.0	413.295	404.287	384.696	404.287	413.295	398.739	384.970

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CANDELA TABULATION - (Cont.)

32.5	396.204	374.421	347.638	374.421	396.204	367.845	350.515
35.0	369.386	339.041	305.407	339.041	369.386	328.526	309.141
37.5	333.527	296.434	258.416	296.434	333.527	284.994	263.211
40.0	290.474	250.402	212.384	250.402	290.474	239.305	216.905
42.5	242.764	205.192	171.867	205.192	242.764	195.910	176.456
45.0	195.636	164.845	139.192	164.845	195.636	158.578	143.473
47.5	153.372	131.520	114.121	131.520	153.372	128.061	117.752
50.0	118.402	105.661	95.112	105.661	118.402	103.949	97.715
52.5	91.002	85.420	80.796	85.420	91.002	85.317	81.549
55.0	69.836	69.391	67.986	69.391	69.836	69.802	67.884
57.5	53.807	56.581	56.650	56.581	53.807	56.958	56.239
60.0	41.785	45.518	46.751	45.518	41.785	46.546	46.272
62.5	32.435	36.442	37.915	36.442	32.435	37.196	37.607
65.0	24.968	28.530	30.174	28.530	24.968	29.455	29.969
67.5	18.975	21.852	23.804	21.852	18.975	22.845	23.324
70.0	14.077	16.337	18.392	16.337	14.077	17.159	17.776
72.5	10.070	11.816	13.700	11.816	10.070	12.296	13.118
75.0	6.987	8.186	9.693	8.186	6.987	8.357	8.905
77.5	4.727	5.480	6.028	5.480	4.727	5.172	5.412
80.0	3.185	3.596	3.733	3.596	3.185	3.288	3.254
82.5	2.158	2.363	2.192	2.363	2.158	1.987	1.781
85.0	1.404	1.576	1.199	1.576	1.404	1.062	0.754
87.5	0.754	0.856	0.548	0.856	0.754	0.411	0.137
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	176.38	N.A.	21.60
0-30	375.58	N.A.	46.10
0-40	582.02	N.A.	71.40
0-60	775.75	N.A.	95.10
0-80	813.83	N.A.	99.80
0-90	815.37	N.A.	100.00
10-90	770.15	N.A.	94.50
20-40	405.63	N.A.	49.70
20-50	535.62	N.A.	65.70
40-70	222.53	N.A.	27.30
60-80	38.08	N.A.	4.70
70-80	9.28	N.A.	1.10
80-90	1.54	N.A.	0.20
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	815.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.21
10-20	131.17
20-30	199.20
30-40	206.43
40-50	129.99
50-60	63.74
60-70	28.80
70-80	9.28
80-90	1.54
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

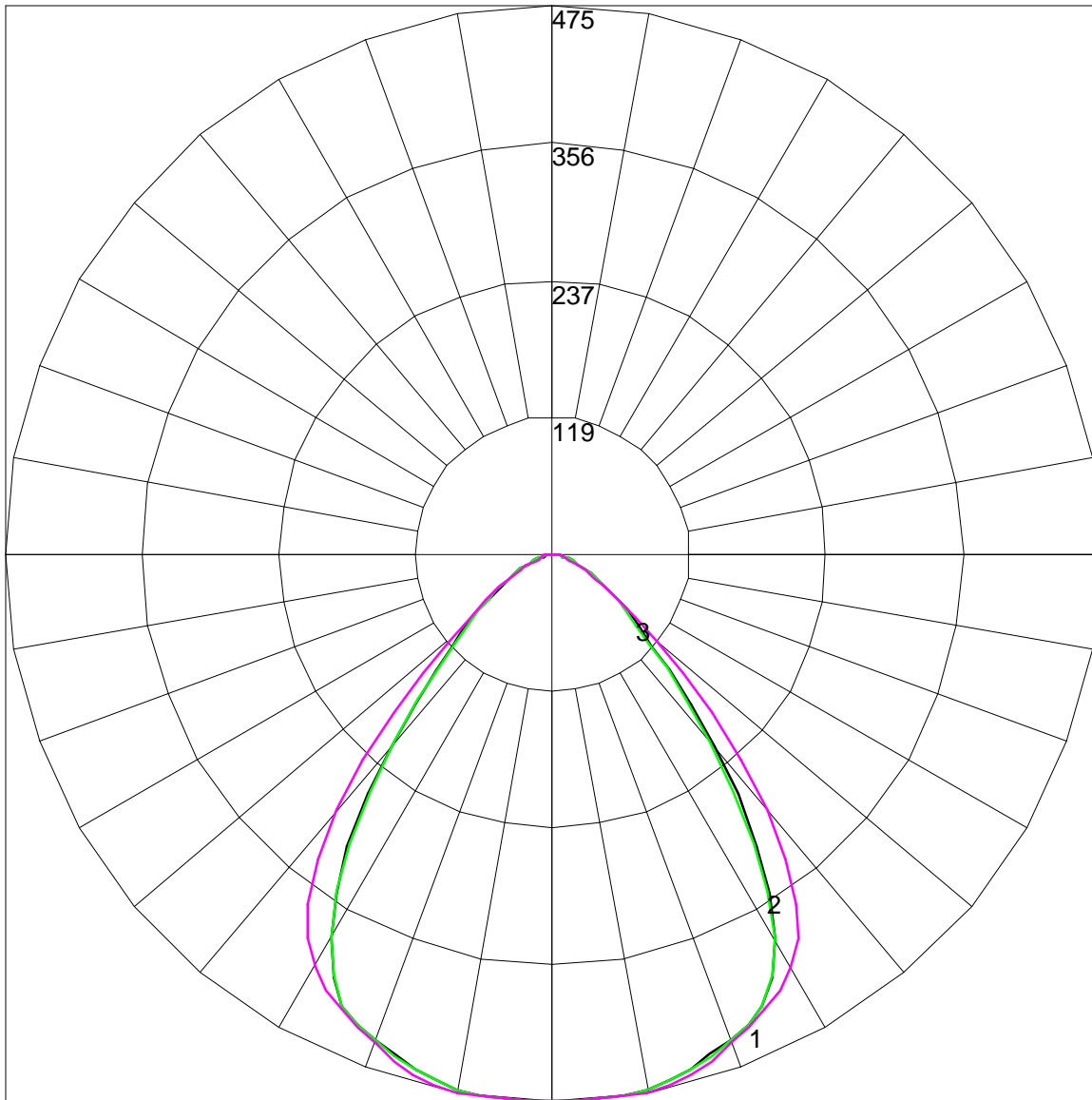
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

POLAR GRAPH



Maximum Candela = 474.5 Located At Horizontal Angle = 0, Vertical Angle = 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)