

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6SQLEDOS-30L35KEX-CA0366OS-SGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-019
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-003B
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE6SQLEDOS-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	27.7
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	30107	41054	29209
55	17561	18066	17588
65	10522	8767	10594
75	5105	4006	5557
85	1283	2391	2041

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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	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5	1383.9	1382.3	1384.8	1384.5	1383.9	1384.5	1384.8	1382.3	1383.9	1382.3
5.0	1385.4	1384.3	1384.1	1384.5	1382.0	1384.5	1384.1	1384.3	1385.4	1384.3
7.5	1383.6	1382.8	1383.1	1385.2	1380.9	1385.2	1383.1	1382.8	1383.6	1382.8
10.0	1378.3	1380.5	1383.4	1380.0	1377.2	1380.0	1383.4	1380.5	1378.3	1380.5
12.5	1365.5	1371.3	1377.5	1375.1	1366.3	1375.1	1377.5	1371.3	1365.5	1371.3
15.0	1350.3	1353.3	1364.9	1360.6	1350.2	1360.6	1364.9	1353.3	1350.3	1353.3
17.5	1329.7	1336.7	1344.7	1341.8	1331.8	1341.8	1344.7	1336.7	1329.7	1336.7
20.0	1313.0	1318.6	1318.2	1321.4	1312.7	1321.4	1318.2	1318.6	1313.0	1318.6
22.5	1292.1	1300.2	1295.3	1303.2	1292.8	1303.2	1295.3	1300.2	1292.1	1300.2
25.0	1261.3	1275.7	1270.8	1277.9	1261.3	1277.9	1270.8	1275.7	1261.3	1275.7
27.5	1206.3	1231.3	1245.3	1239.7	1204.8	1239.7	1245.3	1231.3	1206.3	1231.3
30.0	1124.0	1164.2	1206.7	1180.4	1123.2	1180.4	1206.7	1164.2	1124.0	1164.2
32.5	1023.4	1074.0	1156.8	1093.2	1015.0	1093.2	1156.8	1074.0	1023.4	1074.0
35.0	902.6	959.2	1078.5	989.9	891.7	989.9	1078.5	959.2	902.6	959.2
37.5	768.5	832.1	973.8	865.5	754.5	865.5	973.8	832.1	768.5	832.1
40.0	633.3	698.7	848.1	731.1	620.1	731.1	848.1	698.7	633.3	698.7
42.5	515.2	572.0	708.8	599.1	501.8	599.1	708.8	572.0	515.2	572.0
45.0	418.9	463.0	571.2	481.3	406.4	481.3	571.2	463.0	418.9	463.0
47.5	343.8	373.9	447.8	384.0	333.2	384.0	447.8	373.9	343.8	373.9
50.0	285.3	303.5	345.7	308.5	277.7	308.5	345.7	303.5	285.3	303.5
52.5	238.1	249.1	265.7	249.4	235.9	249.4	265.7	249.1	238.1	249.1
55.0	198.2	203.8	203.9	202.6	198.5	202.6	203.9	203.8	198.2	203.8
57.5	164.2	166.3	157.1	165.2	165.4	165.2	157.1	166.3	164.2	166.3
60.0	135.1	135.9	122.0	132.9	136.5	132.9	122.0	135.9	135.1	135.9
62.5	109.8	108.6	94.7	106.4	110.7	106.4	94.7	108.6	109.8	108.6
65.0	87.5	86.0	72.9	83.3	88.1	83.3	72.9	86.0	87.5	86.0
67.5	68.1	66.7	55.4	63.8	69.5	63.8	55.4	66.7	68.1	66.7
70.0	51.9	50.1	41.1	47.7	53.7	47.7	41.1	50.1	51.9	50.1
72.5	38.3	35.9	29.4	34.5	40.0	34.5	29.4	35.9	38.3	35.9
75.0	26.0	24.4	20.4	23.9	28.3	23.9	20.4	24.4	26.0	24.4
77.5	15.8	15.1	13.8	16.0	17.6	16.0	13.8	15.1	15.8	15.1
80.0	9.5	9.6	9.3	10.5	10.9	10.5	9.3	9.6	9.5	9.6
82.5	5.2	5.8	6.3	6.9	6.4	6.9	6.3	5.8	5.2	5.8
85.0	2.2	3.1	4.1	4.6	3.5	4.6	4.1	3.1	2.2	3.1
87.5	0.4	1.2	2.2	2.5	1.6	2.5	2.2	1.2	0.4	1.2
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5	1384.8	1384.5	1383.9	1384.5	1384.8	1382.3	1383.9
5.0	1384.1	1384.5	1382.0	1384.5	1384.1	1384.3	1385.4
7.5	1383.1	1385.2	1380.9	1385.2	1383.1	1382.8	1383.6
10.0	1383.4	1380.0	1377.2	1380.0	1383.4	1380.5	1378.3
12.5	1377.5	1375.1	1366.3	1375.1	1377.5	1371.3	1365.5
15.0	1364.9	1360.6	1350.2	1360.6	1364.9	1353.3	1350.3
17.5	1344.7	1341.8	1331.8	1341.8	1344.7	1336.7	1329.7
20.0	1318.2	1321.4	1312.7	1321.4	1318.2	1318.6	1313.0
22.5	1295.3	1303.2	1292.8	1303.2	1295.3	1300.2	1292.1
25.0	1270.8	1277.9	1261.3	1277.9	1270.8	1275.7	1261.3
27.5	1245.3	1239.7	1204.8	1239.7	1245.3	1231.3	1206.3
30.0	1206.7	1180.4	1123.2	1180.4	1206.7	1164.2	1124.0

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32.5	1156.8	1093.2	1015.0	1093.2	1156.8	1074.0	1023.4
35.0	1078.5	989.9	891.7	989.9	1078.5	959.2	902.6
37.5	973.8	865.5	754.5	865.5	973.8	832.1	768.5
40.0	848.1	731.1	620.1	731.1	848.1	698.7	633.3
42.5	708.8	599.1	501.8	599.1	708.8	572.0	515.2
45.0	571.2	481.3	406.4	481.3	571.2	463.0	418.9
47.5	447.8	384.0	333.2	384.0	447.8	373.9	343.8
50.0	345.7	308.5	277.7	308.5	345.7	303.5	285.3
52.5	265.7	249.4	235.9	249.4	265.7	249.1	238.1
55.0	203.9	202.6	198.5	202.6	203.9	203.8	198.2
57.5	157.1	165.2	165.4	165.2	157.1	166.3	164.2
60.0	122.0	132.9	136.5	132.9	122.0	135.9	135.1
62.5	94.7	106.4	110.7	106.4	94.7	108.6	109.8
65.0	72.9	83.3	88.1	83.3	72.9	86.0	87.5
67.5	55.4	63.8	69.5	63.8	55.4	66.7	68.1
70.0	41.1	47.7	53.7	47.7	41.1	50.1	51.9
72.5	29.4	34.5	40.0	34.5	29.4	35.9	38.3
75.0	20.4	23.9	28.3	23.9	20.4	24.4	26.0
77.5	13.8	16.0	17.6	16.0	13.8	15.1	15.8
80.0	9.3	10.5	10.9	10.5	9.3	9.6	9.5
82.5	6.3	6.9	6.4	6.9	6.3	5.8	5.2
85.0	4.1	4.6	3.5	4.6	4.1	3.1	2.2
87.5	2.2	2.5	1.6	2.5	2.2	1.2	0.4
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	514.98	N.A.	21.60
0-30	1096.59	N.A.	46.10
0-40	1699.32	N.A.	71.40
0-60	2264.96	N.A.	95.10
0-80	2376.14	N.A.	99.80
0-90	2380.64	N.A.	100.00
10-90	2248.62	N.A.	94.50
20-40	1184.34	N.A.	49.70
20-50	1563.87	N.A.	65.70
40-70	649.72	N.A.	27.30
60-80	111.18	N.A.	4.70
70-80	27.10	N.A.	1.10
80-90	4.50	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	2380.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.01
10-20	382.97
20-30	581.61
30-40	602.72
40-50	379.53
50-60	186.11
60-70	84.08
70-80	27.10
80-90	4.50
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

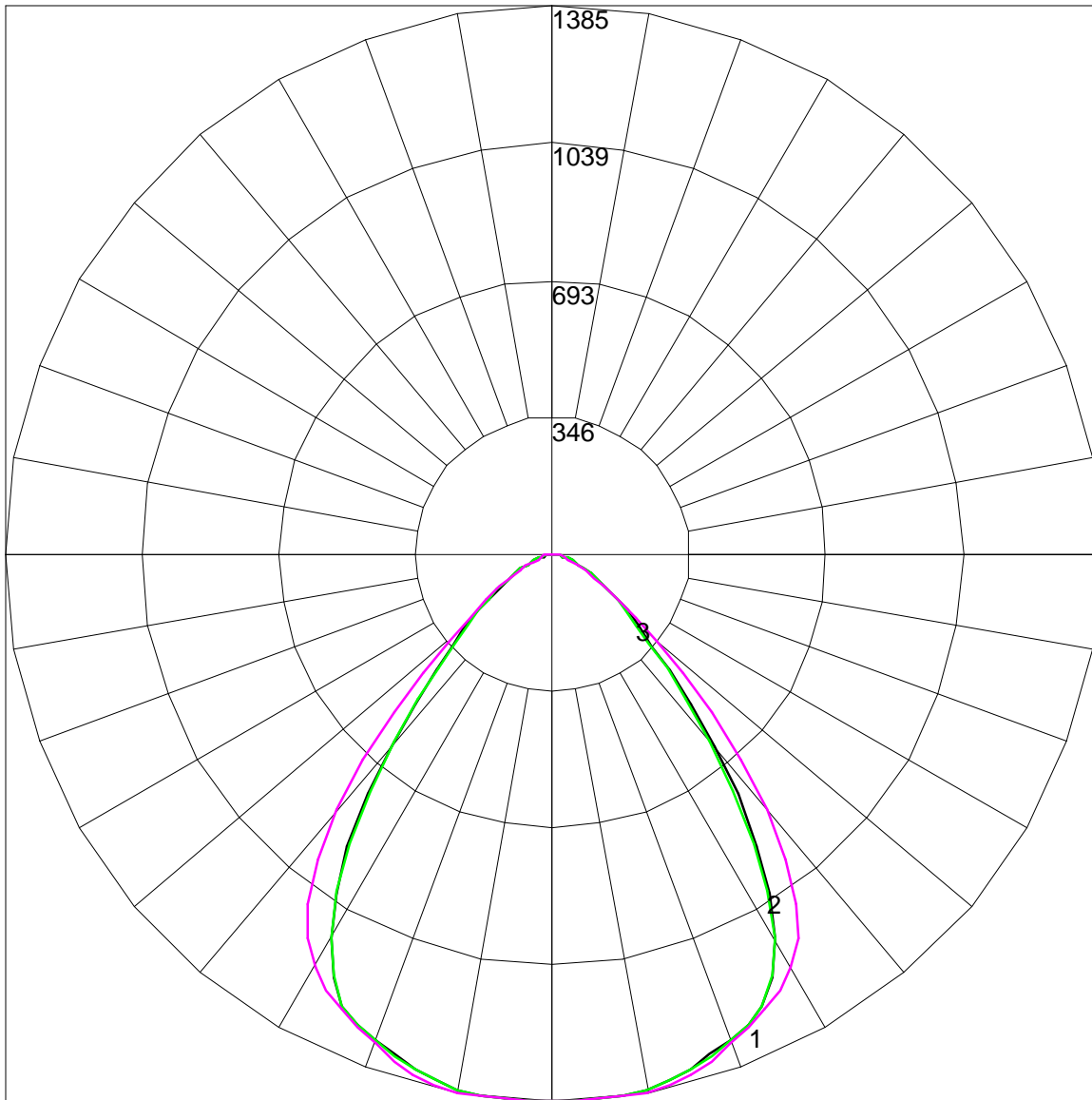
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	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	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	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	42	39	47	42	38	37

POLAR GRAPH



Maximum Candela = 1385.4 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)