

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6SQLEDOS-45L35KEX-CA0366OS-SGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-019_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-003B_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE6SQLEDOS-45L-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	3523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	41.1
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	44559	60759	43229
55	25991	26738	26030
65	15573	12974	15680
75	7556	5928	8224
85	1899	3538	3021

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	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876
2.5	2048.172	2045.804	2049.504	2049.060	2048.172	2049.060	2049.504	2045.804	2048.172	2045.804
5.0	2050.392	2048.764	2048.468	2049.060	2045.360	2049.060	2048.468	2048.764	2050.392	2048.764
7.5	2047.728	2046.544	2046.988	2050.096	2043.732	2050.096	2046.988	2046.544	2047.728	2046.544
10.0	2039.884	2043.140	2047.432	2042.400	2038.256	2042.400	2047.432	2043.140	2039.884	2043.140
12.5	2020.940	2029.524	2038.700	2035.148	2022.124	2035.148	2038.700	2029.524	2020.940	2029.524
15.0	1998.444	2002.884	2020.052	2013.688	1998.296	2013.688	2020.052	2002.884	1998.444	2002.884
17.5	1967.956	1978.316	1990.156	1985.864	1971.064	1985.864	1990.156	1978.316	1967.956	1978.316
20.0	1943.240	1951.528	1950.936	1955.672	1942.796	1955.672	1950.936	1951.528	1943.240	1951.528
22.5	1912.308	1924.296	1917.044	1928.736	1913.344	1928.736	1917.044	1924.296	1912.308	1924.296
25.0	1866.724	1888.036	1880.784	1891.292	1866.724	1891.292	1880.784	1888.036	1866.724	1888.036
27.5	1785.324	1822.324	1843.044	1834.756	1783.104	1834.756	1843.044	1822.324	1785.324	1822.324
30.0	1663.520	1723.016	1785.916	1746.992	1662.336	1746.992	1785.916	1723.016	1663.520	1723.016
32.5	1514.632	1589.520	1712.064	1617.936	1502.200	1617.936	1712.064	1589.520	1514.632	1589.520
35.0	1335.848	1419.616	1596.180	1465.052	1319.716	1465.052	1596.180	1419.616	1335.848	1419.616
37.5	1137.380	1231.508	1441.224	1280.940	1116.660	1280.940	1441.224	1231.508	1137.380	1231.508
40.0	937.284	1034.076	1255.188	1082.028	917.748	1082.028	1255.188	1034.076	937.284	1034.076
42.5	762.496	846.560	1049.024	886.668	742.664	886.668	1049.024	846.560	762.496	846.560
45.0	619.972	685.240	845.376	712.324	601.472	712.324	845.376	685.240	619.972	685.240
47.5	508.824	553.372	662.744	568.320	493.136	568.320	662.744	553.372	508.824	553.372
50.0	422.244	449.180	511.636	456.580	410.996	456.580	511.636	449.180	422.244	449.180
52.5	352.388	368.668	393.236	369.112	349.132	369.112	393.236	368.668	352.388	368.668
55.0	293.336	301.624	301.772	299.848	293.780	299.848	301.772	301.624	293.336	301.624
57.5	243.016	246.124	232.508	244.496	244.792	244.496	232.508	246.124	243.016	246.124
60.0	199.948	201.132	180.560	196.692	202.020	196.692	180.560	201.132	199.948	201.132
62.5	162.504	160.728	140.156	157.472	163.836	157.472	140.156	160.728	162.504	160.728
65.0	129.500	127.280	107.892	123.284	130.388	123.284	107.892	127.280	129.500	127.280
67.5	100.788	98.716	81.992	94.424	102.860	94.424	81.992	98.716	100.788	98.716
70.0	76.812	74.148	60.828	70.596	79.476	70.596	60.828	74.148	76.812	74.148
72.5	56.684	53.132	43.512	51.060	59.200	51.060	43.512	53.132	56.684	53.132
75.0	38.480	36.112	30.192	35.372	41.884	35.372	30.192	36.112	38.480	36.112
77.5	23.384	22.348	20.424	23.680	26.048	23.680	20.424	22.348	23.384	22.348
80.0	14.060	14.208	13.764	15.540	16.132	15.540	13.764	14.208	14.060	14.208
82.5	7.696	8.584	9.324	10.212	9.472	10.212	9.324	8.584	7.696	8.584
85.0	3.256	4.588	6.068	6.808	5.180	6.808	6.068	4.588	3.256	4.588
87.5	0.592	1.776	3.256	3.700	2.368	3.700	3.256	1.776	0.592	1.776
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	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876	2047.876
2.5	2049.504	2049.060	2048.172	2049.060	2049.504	2045.804	2048.172
5.0	2048.468	2049.060	2045.360	2049.060	2048.468	2048.764	2050.392
7.5	2046.988	2050.096	2043.732	2050.096	2046.988	2046.544	2047.728
10.0	2047.432	2042.400	2038.256	2042.400	2047.432	2043.140	2039.884
12.5	2038.700	2035.148	2022.124	2035.148	2038.700	2029.524	2020.940
15.0	2020.052	2013.688	1998.296	2013.688	2020.052	2002.884	1998.444
17.5	1990.156	1985.864	1971.064	1985.864	1990.156	1978.316	1967.956
20.0	1950.936	1955.672	1942.796	1955.672	1950.936	1951.528	1943.240
22.5	1917.044	1928.736	1913.344	1928.736	1917.044	1924.296	1912.308
25.0	1880.784	1891.292	1866.724	1891.292	1880.784	1888.036	1866.724
27.5	1843.044	1834.756	1783.104	1834.756	1843.044	1822.324	1785.324
30.0	1785.916	1746.992	1662.336	1746.992	1785.916	1723.016	1663.520

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CANDELA TABULATION - (Cont.)

32.5	1712.064	1617.936	1502.200	1617.936	1712.064	1589.520	1514.632
35.0	1596.180	1465.052	1319.716	1465.052	1596.180	1419.616	1335.848
37.5	1441.224	1280.940	1116.660	1280.940	1441.224	1231.508	1137.380
40.0	1255.188	1082.028	917.748	1082.028	1255.188	1034.076	937.284
42.5	1049.024	886.668	742.664	886.668	1049.024	846.560	762.496
45.0	845.376	712.324	601.472	712.324	845.376	685.240	619.972
47.5	662.744	568.320	493.136	568.320	662.744	553.372	508.824
50.0	511.636	456.580	410.996	456.580	511.636	449.180	422.244
52.5	393.236	369.112	349.132	369.112	393.236	368.668	352.388
55.0	301.772	299.848	293.780	299.848	301.772	301.624	293.336
57.5	232.508	244.496	244.792	244.496	232.508	246.124	243.016
60.0	180.560	196.692	202.020	196.692	180.560	201.132	199.948
62.5	140.156	157.472	163.836	157.472	140.156	160.728	162.504
65.0	107.892	123.284	130.388	123.284	107.892	127.280	129.500
67.5	81.992	94.424	102.860	94.424	81.992	98.716	100.788
70.0	60.828	70.596	79.476	70.596	60.828	74.148	76.812
72.5	43.512	51.060	59.200	51.060	43.512	53.132	56.684
75.0	30.192	35.372	41.884	35.372	30.192	36.112	38.480
77.5	20.424	23.680	26.048	23.680	20.424	22.348	23.384
80.0	13.764	15.540	16.132	15.540	13.764	14.208	14.060
82.5	9.324	10.212	9.472	10.212	9.324	8.584	7.696
85.0	6.068	6.808	5.180	6.808	6.068	4.588	3.256
87.5	3.256	3.700	2.368	3.700	3.256	1.776	0.592
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	762.18	N.A.	21.60
0-30	1622.96	N.A.	46.10
0-40	2514.99	N.A.	71.40
0-60	3352.15	N.A.	95.10
0-80	3516.69	N.A.	99.80
0-90	3523.34	N.A.	100.00
10-90	3327.96	N.A.	94.50
20-40	1752.82	N.A.	49.70
20-50	2314.53	N.A.	65.70
40-70	961.59	N.A.	27.30
60-80	164.54	N.A.	4.70
70-80	40.10	N.A.	1.10
80-90	6.66	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	3523.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.38
10-20	566.80
20-30	860.78
30-40	892.03
40-50	561.71
50-60	275.44
60-70	124.44
70-80	40.10
80-90	6.66
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

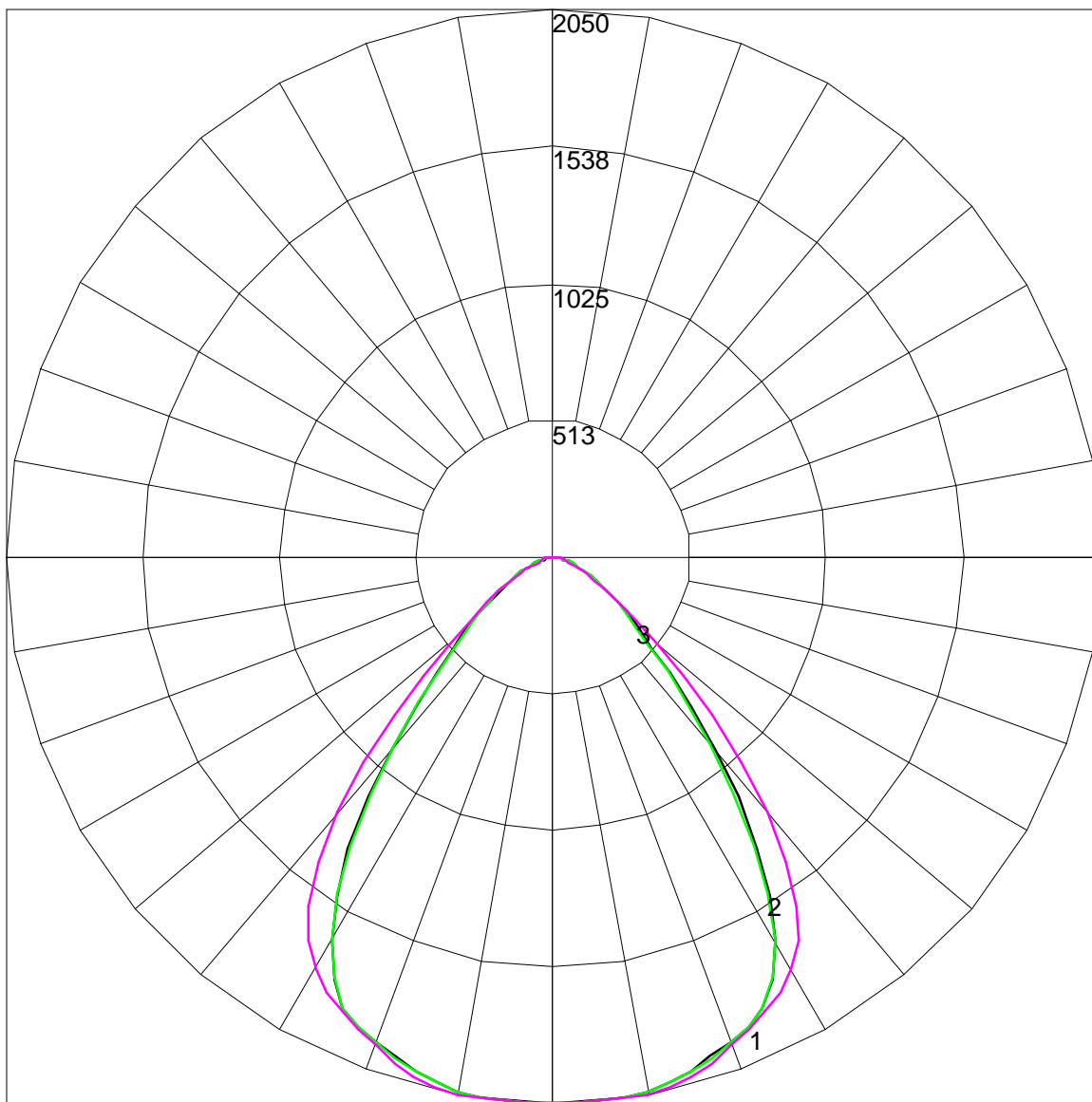
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	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	98	89	83	78	95	88	82	78	85	80	76	83	78	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	49	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	42	39	47	42	38	37

POLAR GRAPH



Maximum Candela = 2050.392 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)