

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW8LEDOS-45L35KEX-AR8923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-015_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-001_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW8LEDOS-45L-35K-EX-AR8923OS-SG-SK
[LUMINAIRE] 8" Aperture Recessed WallWasher Downlight
[TRIM] Semi-diffuse anodized cone, regressed Linear Prism Lens
[OTHER] Perpendicular Orientation
[LAMP] N/A
[LAMPCAT] N/A
[OTHER] Total Luminaire Wattage is approximate
[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	2828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	78721	46559	19682
55	64291	27077	7445
65	65301	18524	1035
75	59557	9899	0
85	30243	2964	0

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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	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032
2.5	2135.788	2134.752	2115.512	2084.136	2042.104	1999.332	1955.820	1927.848	1908.904	1927.848
5.0	2200.612	2195.136	2165.092	2108.112	2031.152	1940.132	1852.812	1788.580	1760.016	1788.580
7.5	2228.288	2227.548	2195.876	2122.320	2009.248	1871.904	1735.004	1632.884	1590.260	1632.884
10.0	2239.980	2231.248	2198.540	2116.252	1975.356	1787.544	1600.028	1468.160	1408.960	1468.160
12.5	2229.472	2217.336	2178.412	2101.304	1927.552	1696.376	1462.388	1291.744	1220.556	1291.744
15.0	2247.084	2218.372	2149.404	2065.340	1869.832	1594.108	1312.168	1111.036	1030.080	1111.036
17.5	2256.408	2216.300	2105.300	2009.988	1799.088	1481.628	1155.140	932.696	847.744	932.696
20.0	2262.772	2204.164	2065.192	1936.876	1718.724	1359.232	998.112	764.272	682.132	764.272
22.5	2257.740	2188.624	2019.608	1849.556	1624.448	1233.284	846.856	612.868	533.836	612.868
25.0	2244.716	2162.872	1956.116	1751.284	1518.924	1105.264	704.924	481.740	411.736	481.740
27.5	2224.144	2118.028	1871.016	1630.812	1385.724	969.104	573.056	370.592	312.280	370.592
30.0	2180.188	2050.392	1763.272	1471.416	1222.332	819.328	457.616	281.644	238.428	281.644
32.5	2122.912	1962.480	1649.904	1300.328	1065.008	674.288	354.016	215.192	190.032	215.192
35.0	2053.204	1868.352	1510.784	1149.664	925.888	552.188	264.624	169.016	146.224	169.016
37.5	1965.440	1765.196	1359.380	1011.432	823.472	450.068	195.656	127.132	105.080	127.132
40.0	1846.448	1666.480	1213.748	909.164	696.784	369.556	146.224	91.168	69.264	91.168
42.5	1718.132	1552.372	1066.488	747.252	534.576	284.012	113.960	60.384	40.256	60.384
45.0	1562.732	1392.680	924.260	564.176	390.720	203.944	87.024	34.632	19.536	34.632
47.5	1399.932	1219.076	773.152	424.464	306.804	146.076	62.160	15.392	4.440	15.392
50.0	1256.816	1063.232	620.416	343.804	224.368	109.076	40.404	3.108	1.924	3.108
52.5	1133.236	939.060	506.900	256.484	155.992	77.256	21.756	1.036	0.444	1.036
55.0	1035.260	847.596	436.008	188.552	119.880	54.168	7.252	0.000	0.000	0.000
57.5	969.548	781.736	381.988	147.260	84.064	37.592	0.148	0.000	0.000	0.000
60.0	907.388	726.532	334.628	108.632	58.756	22.644	0.000	0.000	0.000	0.000
62.5	845.228	668.220	277.796	75.480	35.076	9.620	0.000	0.000	0.000	0.000
65.0	774.780	603.100	219.780	44.252	12.284	0.148	0.000	0.000	0.000	0.000
67.5	706.700	535.464	167.388	22.940	0.000	0.000	0.000	0.000	0.000	0.000
70.0	632.552	461.464	131.572	16.280	0.000	0.000	0.000	0.000	0.000	0.000
72.5	526.732	379.324	99.160	10.804	0.000	0.000	0.000	0.000	0.000	0.000
75.0	432.752	300.588	71.928	6.660	0.000	0.000	0.000	0.000	0.000	0.000
77.5	344.840	220.816	50.024	3.552	0.000	0.000	0.000	0.000	0.000	0.000
80.0	236.504	150.516	31.968	1.332	0.000	0.000	0.000	0.000	0.000	0.000
82.5	158.212	91.612	17.612	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	74.000	40.848	7.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	15.688	7.696	1.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032	2040.032
2.5	1955.820	1999.332	2042.104	2084.136	2115.512	2134.752	2135.788
5.0	1852.812	1940.132	2031.152	2108.112	2165.092	2195.136	2200.612
7.5	1735.004	1871.904	2009.248	2122.320	2195.876	2227.548	2228.288
10.0	1600.028	1787.544	1975.356	2116.252	2198.540	2231.248	2239.980
12.5	1462.388	1696.376	1927.552	2101.304	2178.412	2217.336	2229.472
15.0	1312.168	1594.108	1869.832	2065.340	2149.404	2218.372	2247.084
17.5	1155.140	1481.628	1799.088	2009.988	2105.300	2216.300	2256.408
20.0	998.112	1359.232	1718.724	1936.876	2065.192	2204.164	2262.772
22.5	846.856	1233.284	1624.448	1849.556	2019.608	2188.624	2257.740
25.0	704.924	1105.264	1518.924	1751.284	1956.116	2162.872	2244.716
27.5	573.056	969.104	1385.724	1630.812	1871.016	2118.028	2224.144
30.0	457.616	819.328	1222.332	1471.416	1763.272	2050.392	2180.188

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32.5	354.016	674.288	1065.008	1300.328	1649.904	1962.480	2122.912
35.0	264.624	552.188	925.888	1149.664	1510.784	1868.352	2053.204
37.5	195.656	450.068	823.472	1011.432	1359.380	1765.196	1965.440
40.0	146.224	369.556	696.784	909.164	1213.748	1666.480	1846.448
42.5	113.960	284.012	534.576	747.252	1066.488	1552.372	1718.132
45.0	87.024	203.944	390.720	564.176	924.260	1392.680	1562.732
47.5	62.160	146.076	306.804	424.464	773.152	1219.076	1399.932
50.0	40.404	109.076	224.368	343.804	620.416	1063.232	1256.816
52.5	21.756	77.256	155.992	256.484	506.900	939.060	1133.236
55.0	7.252	54.168	119.880	188.552	436.008	847.596	1035.260
57.5	0.148	37.592	84.064	147.260	381.988	781.736	969.548
60.0	0.000	22.644	58.756	108.632	334.628	726.532	907.388
62.5	0.000	9.620	35.076	75.480	277.796	668.220	845.228
65.0	0.000	0.148	12.284	44.252	219.780	603.100	774.780
67.5	0.000	0.000	0.000	22.940	167.388	535.464	706.700
70.0	0.000	0.000	0.000	16.280	131.572	461.464	632.552
72.5	0.000	0.000	0.000	10.804	99.160	379.324	526.732
75.0	0.000	0.000	0.000	6.660	71.928	300.588	432.752
77.5	0.000	0.000	0.000	3.552	50.024	220.816	344.840
80.0	0.000	0.000	0.000	1.332	31.968	150.516	236.504
82.5	0.000	0.000	0.000	0.000	17.612	91.612	158.212
85.0	0.000	0.000	0.000	0.000	7.252	40.848	74.000
87.5	0.000	0.000	0.000	0.000	1.184	7.696	15.688
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	676.54	N.A.	23.90
0-30	1305.57	N.A.	46.20
0-40	1896.42	N.A.	67.10
0-60	2574.06	N.A.	91.00
0-80	2812.52	N.A.	99.50
0-90	2827.51	N.A.	100.00
10-90	2639.28	N.A.	93.30
20-40	1219.88	N.A.	43.10
20-50	1647.04	N.A.	58.30
40-70	836.76	N.A.	29.60
60-80	238.46	N.A.	8.40
70-80	79.34	N.A.	2.80
80-90	14.99	N.A.	0.50
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	2827.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.23
10-20	488.31
20-30	629.03
30-40	590.85
40-50	427.16
50-60	250.48
60-70	159.12
70-80	79.34
80-90	14.99
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

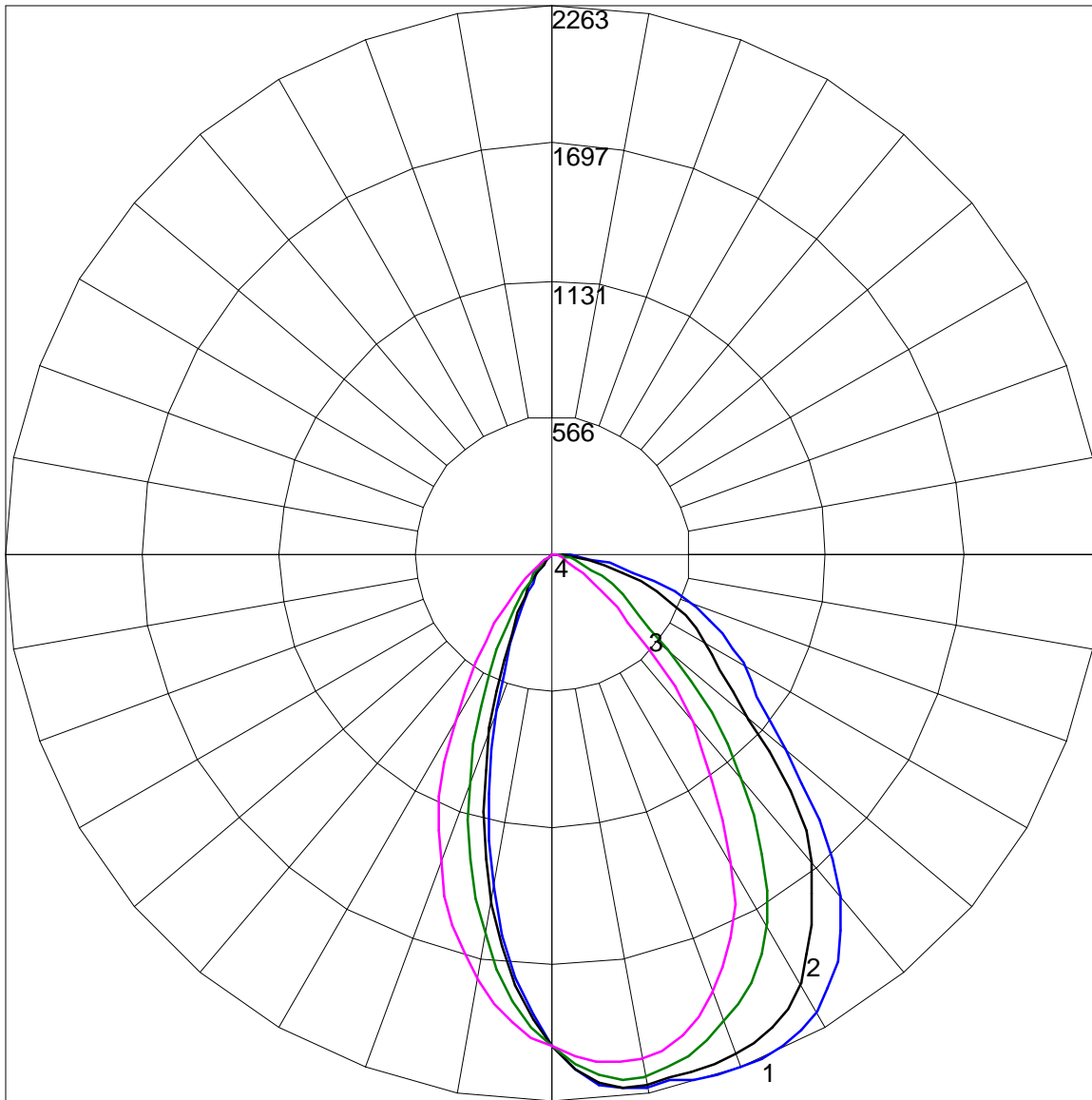
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

POLAR GRAPH



Maximum Candela = 2262.772 Located At Horizontal Angle = 0, Vertical Angle = 20

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)

3 - Vertical Plane Through Horizontal Angles (45 - 225)

4 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)