

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGW4LEDOS-45L35KEX-AR4923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-012\_M-45L  
[TESTLAB] Intertek  
[ISSUE DATE] 11/11/2016  
[UPDATE] 1/4/2017  
[LAB-REF LUMCAT] CRT1611041146-005\_M-45L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGW4LEDOS-45L-35K-EX-AR4923OS-SG-SK  
[LUMINAIRE] 4" 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	2777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	135449	86054	56553
55	99891	42565	22580
65	87842	22588	6164
75	93898	11144	0
85	40993	0	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>
<b>0.0</b>	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708
<b>2.5</b>	2607.760	2608.500	2612.940	2614.124	2615.900	2615.604	2611.756	2601.248	2598.436	2601.248
<b>5.0</b>	2573.720	2575.200	2580.528	2580.972	2584.080	2579.936	2570.020	2558.032	2548.264	2558.032
<b>7.5</b>	2532.428	2532.132	2529.468	2534.648	2536.424	2522.512	2501.496	2477.076	2467.604	2477.076
<b>10.0</b>	2480.924	2470.416	2465.532	2458.576	2460.796	2444.516	2410.624	2378.360	2357.196	2378.360
<b>12.5</b>	2410.328	2402.632	2389.164	2370.220	2370.664	2348.908	2298.440	2256.556	2222.664	2256.556
<b>15.0</b>	2337.512	2320.344	2291.632	2264.992	2262.180	2226.660	2165.092	2111.960	2068.004	2111.960
<b>17.5</b>	2242.940	2221.480	2186.552	2144.964	2133.864	2086.652	2012.208	1945.312	1892.920	1945.312
<b>20.0</b>	2139.192	2111.664	2064.748	2014.132	1991.044	1932.880	1844.080	1765.640	1703.480	1765.640
<b>22.5</b>	2031.596	1994.448	1933.916	1867.464	1838.160	1772.152	1671.660	1584.192	1511.376	1584.192
<b>25.0</b>	1905.352	1859.324	1780.884	1704.812	1659.672	1595.144	1498.056	1397.860	1330.224	1397.860
<b>27.5</b>	1774.816	1715.764	1612.164	1522.624	1482.220	1413.104	1316.016	1216.412	1152.032	1216.412
<b>30.0</b>	1628.148	1560.068	1443.444	1339.548	1277.388	1228.992	1140.192	1046.064	983.756	1046.064
<b>32.5</b>	1489.028	1400.820	1273.540	1136.640	1070.188	1036.888	978.132	887.704	828.208	887.704
<b>35.0</b>	1335.700	1235.652	1101.712	935.656	877.788	848.780	824.212	737.040	683.168	737.040
<b>37.5</b>	1180.004	1073.444	910.644	760.276	717.208	683.168	657.120	595.848	548.636	595.848
<b>40.0</b>	1027.712	921.448	741.184	621.304	602.952	550.412	509.860	463.536	428.608	463.536
<b>42.5</b>	887.260	790.764	598.068	502.164	441.484	442.076	387.612	354.756	326.636	354.756
<b>45.0</b>	761.756	672.512	483.960	366.004	318.052	313.760	291.560	266.252	243.608	266.252
<b>47.5</b>	651.496	565.360	393.976	267.288	238.280	225.256	223.332	196.692	185.000	196.692
<b>50.0</b>	566.248	475.820	310.504	206.904	187.812	170.496	163.392	148.000	140.896	148.000
<b>52.5</b>	503.644	408.480	241.092	157.768	134.088	131.128	117.364	112.036	102.712	112.036
<b>55.0</b>	455.692	357.124	194.176	115.588	103.008	94.720	87.320	82.288	70.152	82.288
<b>57.5</b>	414.992	316.424	158.952	89.984	80.512	73.704	65.268	55.796	42.476	55.796
<b>60.0</b>	372.072	277.352	128.760	67.044	58.460	54.908	45.140	32.560	21.904	32.560
<b>62.5</b>	332.704	240.796	100.344	45.140	37.740	35.964	27.084	14.208	10.508	14.208
<b>65.0</b>	295.260	208.532	75.924	26.936	20.720	20.276	12.876	6.364	5.476	6.364
<b>67.5</b>	262.552	179.080	54.168	12.136	7.252	5.772	3.552	2.220	1.628	2.220
<b>70.0</b>	241.092	159.544	43.512	7.992	4.144	1.924	0.148	0.000	0.000	0.000
<b>72.5</b>	217.264	139.860	33.300	4.588	1.184	0.000	0.000	0.000	0.000	0.000
<b>75.0</b>	193.288	117.660	22.940	1.332	0.000	0.000	0.000	0.000	0.000	0.000
<b>77.5</b>	160.876	91.168	13.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80.0</b>	120.176	62.900	6.660	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>82.5</b>	81.992	35.372	0.740	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85.0</b>	28.416	6.364	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	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>
<b>0.0</b>	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708	2622.708
<b>2.5</b>	2611.756	2615.604	2615.900	2614.124	2612.940	2608.500	2607.760
<b>5.0</b>	2570.020	2579.936	2584.080	2580.972	2580.528	2575.200	2573.720
<b>7.5</b>	2501.496	2522.512	2536.424	2534.648	2529.468	2532.132	2532.428
<b>10.0</b>	2410.624	2444.516	2460.796	2458.576	2465.532	2470.416	2480.924
<b>12.5</b>	2298.440	2348.908	2370.664	2370.220	2389.164	2402.632	2410.328
<b>15.0</b>	2165.092	2226.660	2262.180	2264.992	2291.632	2320.344	2337.512
<b>17.5</b>	2012.208	2086.652	2133.864	2144.964	2186.552	2221.480	2242.940
<b>20.0</b>	1844.080	1932.880	1991.044	2014.132	2064.748	2111.664	2139.192
<b>22.5</b>	1671.660	1772.152	1838.160	1867.464	1933.916	1994.448	2031.596
<b>25.0</b>	1498.056	1595.144	1659.672	1704.812	1780.884	1859.324	1905.352
<b>27.5</b>	1316.016	1413.104	1482.220	1522.624	1612.164	1715.764	1774.816
<b>30.0</b>	1140.192	1228.992	1277.388	1339.548	1443.444	1560.068	1628.148

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	978.132	1036.888	1070.188	1136.640	1273.540	1400.820	1489.028
<b>35.0</b>	824.212	848.780	877.788	935.656	1101.712	1235.652	1335.700
<b>37.5</b>	657.120	683.168	717.208	760.276	910.644	1073.444	1180.004
<b>40.0</b>	509.860	550.412	602.952	621.304	741.184	921.448	1027.712
<b>42.5</b>	387.612	442.076	441.484	502.164	598.068	790.764	887.260
<b>45.0</b>	291.560	313.760	318.052	366.004	483.960	672.512	761.756
<b>47.5</b>	223.332	225.256	238.280	267.288	393.976	565.360	651.496
<b>50.0</b>	163.392	170.496	187.812	206.904	310.504	475.820	566.248
<b>52.5</b>	117.364	131.128	134.088	157.768	241.092	408.480	503.644
<b>55.0</b>	87.320	94.720	103.008	115.588	194.176	357.124	455.692
<b>57.5</b>	65.268	73.704	80.512	89.984	158.952	316.424	414.992
<b>60.0</b>	45.140	54.908	58.460	67.044	128.760	277.352	372.072
<b>62.5</b>	27.084	35.964	37.740	45.140	100.344	240.796	332.704
<b>65.0</b>	12.876	20.276	20.720	26.936	75.924	208.532	295.260
<b>67.5</b>	3.552	5.772	7.252	12.136	54.168	179.080	262.552
<b>70.0</b>	0.148	1.924	4.144	7.992	43.512	159.544	241.092
<b>72.5</b>	0.000	0.000	1.184	4.588	33.300	139.860	217.264
<b>75.0</b>	0.000	0.000	0.000	1.332	22.940	117.660	193.288
<b>77.5</b>	0.000	0.000	0.000	0.000	13.912	91.168	160.876
<b>80.0</b>	0.000	0.000	0.000	0.000	6.660	62.900	120.176
<b>82.5</b>	0.000	0.000	0.000	0.000	0.740	35.372	81.992
<b>85.0</b>	0.000	0.000	0.000	0.000	0.000	6.364	28.416
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	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	863.12	N.A.	31.10
0-30	1610.33	N.A.	58.00
0-40	2201.32	N.A.	79.30
0-60	2673.01	N.A.	96.20
0-80	2771.7	N.A.	99.80
0-90	2777.21	N.A.	100.00
10-90	2535.81	N.A.	91.30
20-40	1338.2	N.A.	48.20
20-50	1659.41	N.A.	59.80
40-70	539.23	N.A.	19.40
60-80	98.68	N.A.	3.60
70-80	31.15	N.A.	1.10
80-90	5.52	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	2777.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	241.40
10-20	621.72
20-30	747.21
30-40	590.99
40-50	321.21
50-60	150.49
60-70	67.53
70-80	31.15
80-90	5.52
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

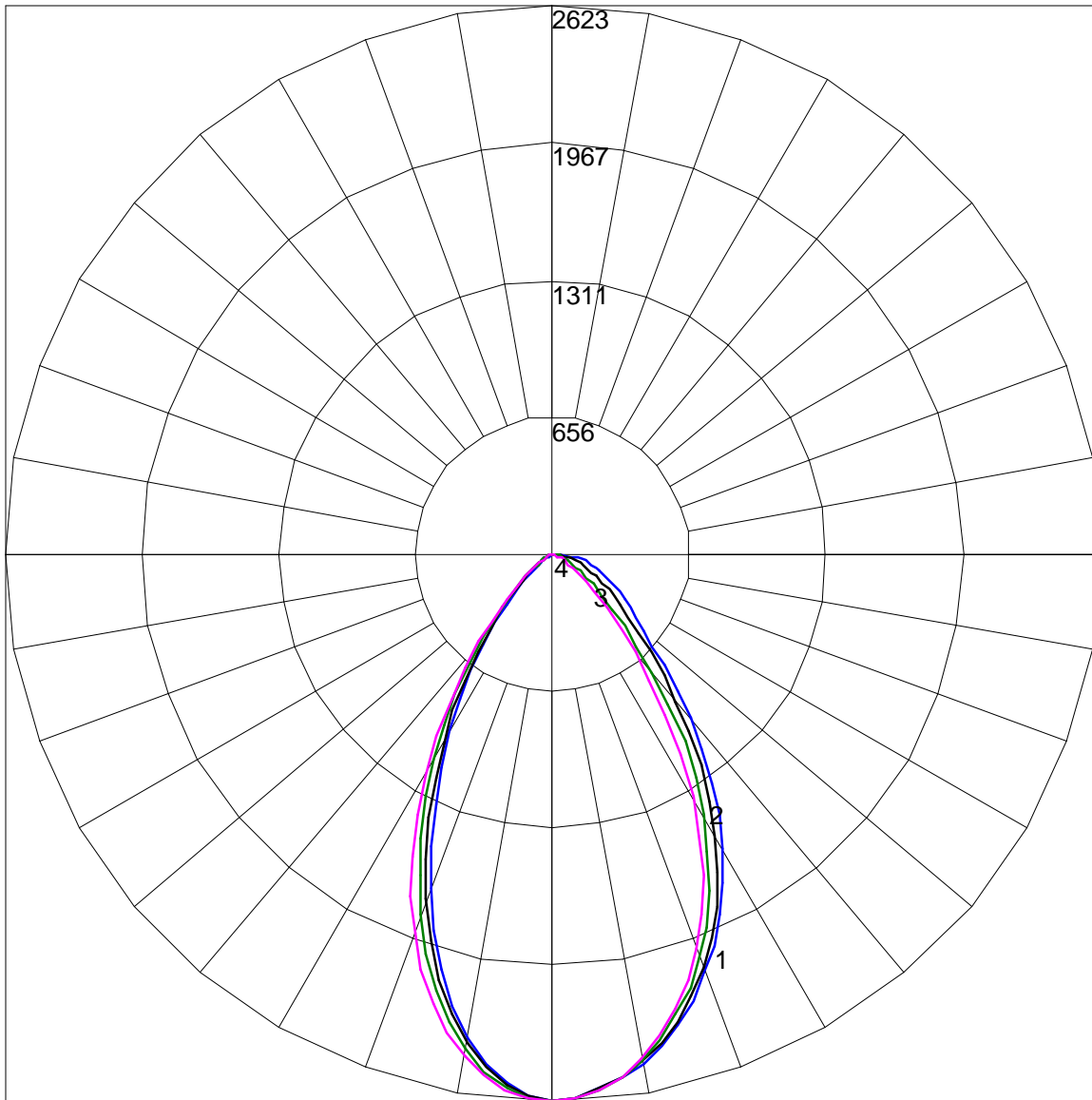
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 2622.708 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 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)