

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6LEDOS-45L35KEX-AR6923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-014_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-004_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6LEDOS-45L-35K-EX-AR6923OS-SG-SK
[LUMINAIRE] 6" 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	3035
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	94572	49063	20405
55	81301	26045	4989
65	76202	12659	364
75	54525	4948	0
85	28738	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>
0.0	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364
2.5	3239.128	3237.648	3224.328	3201.832	3168.088	3135.528	3103.560	3078.844	3055.312	3078.844
5.0	3256.296	3247.860	3219.592	3168.828	3111.848	3044.804	2962.812	2908.348	2880.820	2908.348
7.5	3235.280	3221.072	3174.008	3101.192	3021.420	2907.164	2794.092	2701.740	2656.748	2701.740
10.0	3182.444	3156.544	3090.684	3004.548	2900.948	2750.728	2592.812	2470.860	2402.336	2470.860
12.5	3117.916	3074.848	2982.348	2875.788	2756.204	2570.464	2371.552	2217.780	2125.724	2217.780
15.0	3011.948	2968.880	2859.804	2723.200	2587.336	2381.320	2134.456	1943.980	1842.748	1943.980
17.5	2884.372	2831.980	2704.700	2546.488	2404.112	2176.784	1895.436	1667.072	1555.628	1667.072
20.0	2759.460	2689.308	2537.608	2362.820	2217.188	1966.328	1649.904	1399.636	1280.792	1399.636
22.5	2633.364	2547.672	2377.916	2180.040	2027.304	1757.056	1416.804	1146.408	1023.716	1146.408
25.0	2509.488	2413.880	2214.228	1990.748	1835.348	1554.888	1188.440	911.828	798.016	911.828
27.5	2383.836	2269.876	2035.444	1804.564	1638.212	1356.716	972.508	704.480	600.288	704.480
30.0	2260.996	2122.320	1848.964	1588.188	1399.340	1140.044	780.552	527.620	439.116	527.620
32.5	2116.104	1954.340	1648.720	1331.112	1142.708	913.012	616.272	386.724	315.536	386.724
35.0	1956.856	1760.904	1427.460	1077.588	906.352	710.844	462.204	280.016	231.028	280.016
37.5	1766.084	1558.440	1190.364	857.216	714.100	540.644	331.372	202.168	167.536	202.168
40.0	1573.240	1365.744	970.732	682.280	568.468	416.324	234.432	146.816	112.776	146.816
42.5	1383.208	1194.508	783.216	527.324	394.272	305.768	164.724	99.752	69.856	99.752
45.0	1221.000	1040.440	633.440	366.448	263.440	199.060	117.956	61.568	41.736	61.568
47.5	1089.428	906.500	518.444	250.860	182.336	130.832	82.288	35.668	25.900	35.668
50.0	990.564	802.308	418.840	178.488	127.280	90.280	52.540	21.460	19.240	21.460
52.5	919.228	726.088	337.144	124.912	81.104	58.608	30.784	15.392	13.468	15.392
55.0	851.444	663.336	272.764	82.880	52.244	35.520	15.984	10.064	8.436	10.064
57.5	780.700	599.400	215.784	51.652	27.528	18.352	8.436	5.624	4.144	5.624
60.0	711.880	535.464	165.612	27.232	10.508	7.548	4.588	1.924	0.740	1.924
62.5	652.236	472.712	126.540	16.280	5.328	3.700	1.332	0.000	0.000	0.000
65.0	588.004	407.888	97.680	10.952	2.812	1.036	0.000	0.000	0.000	0.000
67.5	499.796	337.144	72.372	6.808	0.444	0.000	0.000	0.000	0.000	0.000
70.0	423.872	270.988	51.800	3.848	0.000	0.000	0.000	0.000	0.000	0.000
72.5	337.588	207.200	35.964	1.480	0.000	0.000	0.000	0.000	0.000	0.000
75.0	257.668	150.664	23.384	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	190.328	106.116	15.392	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	132.460	71.336	8.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	89.688	42.920	3.256	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	45.732	18.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	11.100	3.256	0.000	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	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364	3188.364
2.5	3103.560	3135.528	3168.088	3201.832	3224.328	3237.648	3239.128
5.0	2962.812	3044.804	3111.848	3168.828	3219.592	3247.860	3256.296
7.5	2794.092	2907.164	3021.420	3101.192	3174.008	3221.072	3235.280
10.0	2592.812	2750.728	2900.948	3004.548	3090.684	3156.544	3182.444
12.5	2371.552	2570.464	2756.204	2875.788	2982.348	3074.848	3117.916
15.0	2134.456	2381.320	2587.336	2723.200	2859.804	2968.880	3011.948
17.5	1895.436	2176.784	2404.112	2546.488	2704.700	2831.980	2884.372
20.0	1649.904	1966.328	2217.188	2362.820	2537.608	2689.308	2759.460
22.5	1416.804	1757.056	2027.304	2180.040	2377.916	2547.672	2633.364
25.0	1188.440	1554.888	1835.348	1990.748	2214.228	2413.880	2509.488
27.5	972.508	1356.716	1638.212	1804.564	2035.444	2269.876	2383.836
30.0	780.552	1140.044	1399.340	1588.188	1848.964	2122.320	2260.996

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PHOTOMETRIC FILENAME : SGW6LEDOS-45L35KEX-AR6923OSSGSK.IES

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32.5	616.272	913.012	1142.708	1331.112	1648.720	1954.340	2116.104
35.0	462.204	710.844	906.352	1077.588	1427.460	1760.904	1956.856
37.5	331.372	540.644	714.100	857.216	1190.364	1558.440	1766.084
40.0	234.432	416.324	568.468	682.280	970.732	1365.744	1573.240
42.5	164.724	305.768	394.272	527.324	783.216	1194.508	1383.208
45.0	117.956	199.060	263.440	366.448	633.440	1040.440	1221.000
47.5	82.288	130.832	182.336	250.860	518.444	906.500	1089.428
50.0	52.540	90.280	127.280	178.488	418.840	802.308	990.564
52.5	30.784	58.608	81.104	124.912	337.144	726.088	919.228
55.0	15.984	35.520	52.244	82.880	272.764	663.336	851.444
57.5	8.436	18.352	27.528	51.652	215.784	599.400	780.700
60.0	4.588	7.548	10.508	27.232	165.612	535.464	711.880
62.5	1.332	3.700	5.328	16.280	126.540	472.712	652.236
65.0	0.000	1.036	2.812	10.952	97.680	407.888	588.004
67.5	0.000	0.000	0.444	6.808	72.372	337.144	499.796
70.0	0.000	0.000	0.000	3.848	51.800	270.988	423.872
72.5	0.000	0.000	0.000	1.480	35.964	207.200	337.588
75.0	0.000	0.000	0.000	0.000	23.384	150.664	257.668
77.5	0.000	0.000	0.000	0.000	15.392	106.116	190.328
80.0	0.000	0.000	0.000	0.000	8.140	71.336	132.460
82.5	0.000	0.000	0.000	0.000	3.256	42.920	89.688
85.0	0.000	0.000	0.000	0.000	0.000	18.648	45.732
87.5	0.000	0.000	0.000	0.000	0.000	3.256	11.100
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	982.87	N.A.	32.40
0-30	1769.88	N.A.	58.30
0-40	2375.41	N.A.	78.30
0-60	2885.03	N.A.	95.10
0-80	3027.57	N.A.	99.80
0-90	3034.85	N.A.	100.00
10-90	2747.62	N.A.	90.50
20-40	1392.54	N.A.	45.90
20-50	1724.58	N.A.	56.80
40-70	610.20	N.A.	20.10
60-80	142.54	N.A.	4.70
70-80	41.96	N.A.	1.40
80-90	7.28	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	3034.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	287.23
10-20	695.64
20-30	787.01
30-40	605.53
40-50	332.04
50-60	177.58
60-70	100.58
70-80	41.96
80-90	7.28
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

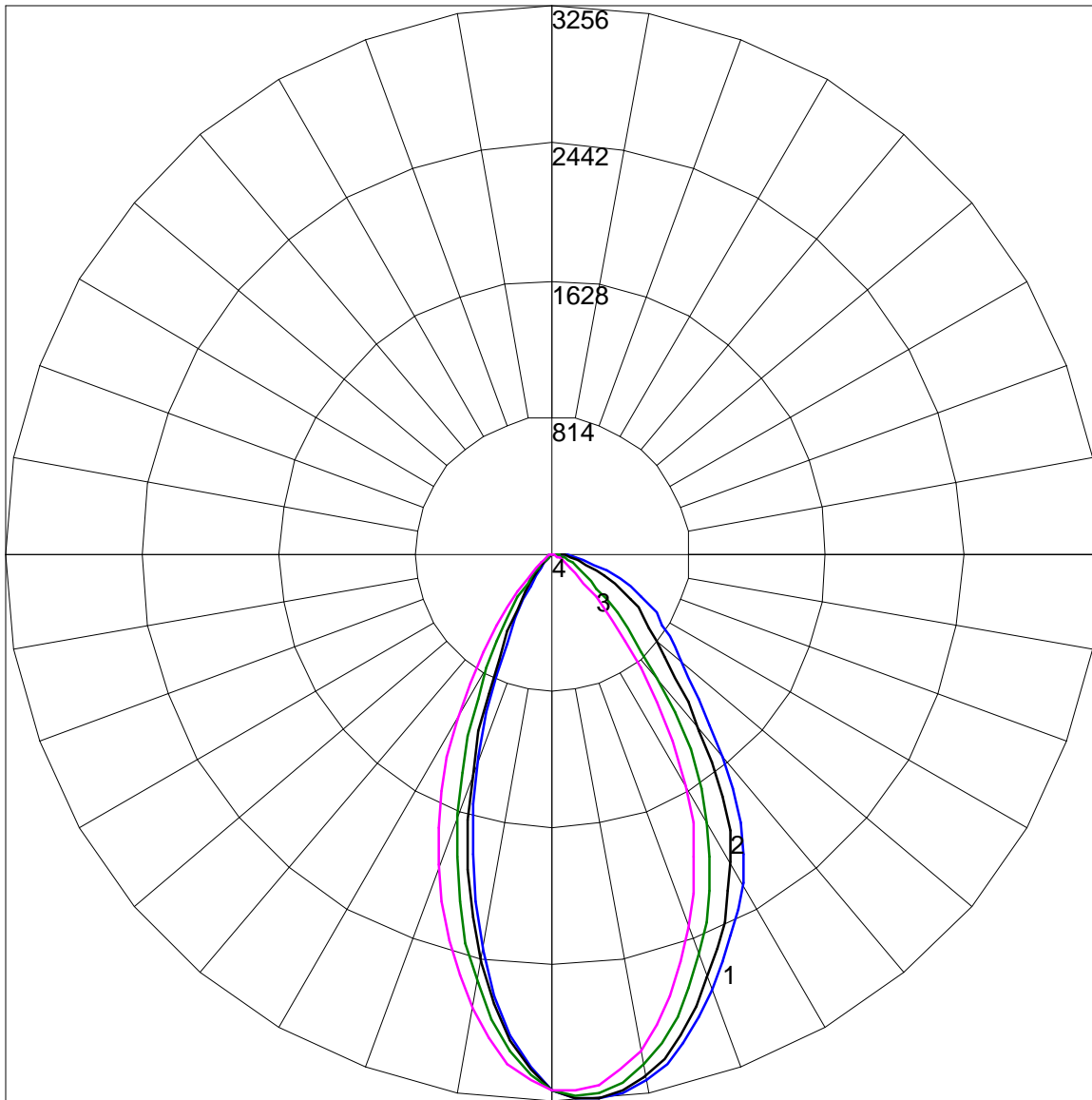
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80	85	81	78	83	80	77	75
4	93	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	57	52	48	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44

POLAR GRAPH



Maximum Candela = 3256.296 Located At Horizontal Angle = 0, Vertical Angle = 5
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)