

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-45L35KEX-CA0396OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-018_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-003A_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6SQLEDOS-45L-35K-EX-CA0396OS-SG-SK
[LUMINAIRE] 6" Square, 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	2483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.92 ft
Luminous Width (90-270)	4.58 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-45L35KEX-CA0396OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	728	638	368
55	911	400	242
65	1209	367	179
75	1156	339	130
85	386	176	49

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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	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832
2.5	1931.844	1922.224	1898.988	1876.492	1830.612	1788.876	1750.840	1723.904	1696.820	1723.904
5.0	1982.756	1979.204	1957.300	1901.208	1820.400	1736.040	1655.676	1593.664	1556.664	1593.664
7.5	2007.472	2002.588	1981.868	1911.716	1798.052	1667.516	1542.308	1453.360	1402.300	1453.360
10.0	1989.712	1991.488	1978.464	1901.948	1761.644	1588.780	1422.428	1301.512	1235.652	1301.512
12.5	1950.048	1953.452	1939.244	1868.204	1700.372	1492.580	1289.820	1145.372	1071.816	1145.372
15.0	1908.608	1904.908	1874.272	1808.264	1620.304	1384.540	1150.552	995.300	918.784	995.300
17.5	1867.316	1843.340	1789.024	1722.720	1527.508	1265.252	1011.728	853.072	778.776	853.072
20.0	1834.608	1793.316	1689.420	1611.572	1425.240	1142.412	879.564	728.012	664.076	728.012
22.5	1795.980	1732.932	1589.964	1499.980	1317.496	1023.568	761.312	625.300	577.644	625.300
25.0	1740.924	1668.848	1491.544	1384.540	1213.600	911.236	658.304	551.892	527.916	551.892
27.5	1635.844	1565.248	1392.236	1273.096	1105.560	807.192	570.096	505.124	510.304	505.124
30.0	1496.872	1436.636	1297.664	1143.448	966.292	698.856	499.500	483.664	512.228	483.664
32.5	1322.676	1286.712	1205.460	983.016	813.852	580.012	440.152	475.968	514.596	475.968
35.0	1137.824	1129.980	1087.652	827.320	683.612	474.192	386.872	466.644	508.972	466.644
37.5	964.516	969.548	930.772	695.600	580.456	388.796	341.288	450.660	498.760	450.660
40.0	820.512	822.732	783.956	614.200	531.320	333.444	306.360	429.644	481.592	429.644
42.5	710.252	704.036	656.676	540.200	409.812	282.384	278.388	407.740	456.580	407.740
45.0	639.804	607.984	561.068	418.988	323.676	222.444	256.632	381.988	424.760	381.988
47.5	610.056	544.640	478.632	340.696	281.792	179.968	234.136	351.944	387.908	351.944
50.0	618.196	512.672	392.792	309.912	248.196	155.400	206.904	318.940	352.388	318.940
52.5	635.660	504.236	325.008	265.364	195.064	131.868	179.820	286.972	319.976	286.972
55.0	650.164	504.828	285.048	213.712	172.716	108.780	159.100	257.076	289.636	257.076
57.5	657.860	502.312	255.596	200.540	154.364	98.124	140.452	229.696	259.592	229.696
60.0	656.676	493.876	228.808	171.088	123.876	85.248	123.876	203.648	233.100	203.648
62.5	651.052	479.372	209.864	147.556	116.476	73.556	109.668	180.264	209.568	180.264
65.0	635.660	459.540	192.992	129.204	94.128	64.528	97.532	162.060	194.916	162.060
67.5	611.092	434.380	174.640	108.928	81.548	55.352	86.432	146.520	180.856	146.520
70.0	550.560	397.232	154.956	90.724	67.044	47.064	75.776	126.984	161.912	126.984
72.5	473.304	331.076	132.756	74.740	54.908	39.516	64.084	108.336	145.336	108.336
75.0	371.924	260.924	109.076	62.012	41.736	32.856	51.504	91.168	129.352	91.168
77.5	266.696	185.740	82.732	47.360	26.936	25.308	40.552	73.704	108.928	73.704
80.0	177.600	121.360	57.720	33.152	17.020	17.760	30.192	54.612	81.844	54.612
82.5	108.632	71.188	36.260	21.164	10.212	11.988	21.016	35.224	52.244	35.224
85.0	41.884	27.824	19.092	11.840	5.328	7.844	12.728	18.352	25.012	18.352
87.5	3.256	3.108	6.216	5.032	2.072	4.440	4.884	5.328	4.884	5.328
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	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832	1832.832
2.5	1750.840	1788.876	1830.612	1876.492	1898.988	1922.224	1931.844
5.0	1655.676	1736.040	1820.400	1901.208	1957.300	1979.204	1982.756
7.5	1542.308	1667.516	1798.052	1911.716	1981.868	2002.588	2007.472
10.0	1422.428	1588.780	1761.644	1901.948	1978.464	1991.488	1989.712
12.5	1289.820	1492.580	1700.372	1868.204	1939.244	1953.452	1950.048
15.0	1150.552	1384.540	1620.304	1808.264	1874.272	1904.908	1908.608
17.5	1011.728	1265.252	1527.508	1722.720	1789.024	1843.340	1867.316
20.0	879.564	1142.412	1425.240	1611.572	1689.420	1793.316	1834.608
22.5	761.312	1023.568	1317.496	1499.980	1589.964	1732.932	1795.980
25.0	658.304	911.236	1213.600	1384.540	1491.544	1668.848	1740.924
27.5	570.096	807.192	1105.560	1273.096	1392.236	1565.248	1635.844
30.0	499.500	698.856	966.292	1143.448	1297.664	1436.636	1496.872

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32.5	440.152	580.012	813.852	983.016	1205.460	1286.712	1322.676
35.0	386.872	474.192	683.612	827.320	1087.652	1129.980	1137.824
37.5	341.288	388.796	580.456	695.600	930.772	969.548	964.516
40.0	306.360	333.444	531.320	614.200	783.956	822.732	820.512
42.5	278.388	282.384	409.812	540.200	656.676	704.036	710.252
45.0	256.632	222.444	323.676	418.988	561.068	607.984	639.804
47.5	234.136	179.968	281.792	340.696	478.632	544.640	610.056
50.0	206.904	155.400	248.196	309.912	392.792	512.672	618.196
52.5	179.820	131.868	195.064	265.364	325.008	504.236	635.660
55.0	159.100	108.780	172.716	213.712	285.048	504.828	650.164
57.5	140.452	98.124	154.364	200.540	255.596	502.312	657.860
60.0	123.876	85.248	123.876	171.088	228.808	493.876	656.676
62.5	109.668	73.556	116.476	147.556	209.864	479.372	651.052
65.0	97.532	64.528	94.128	129.204	192.992	459.540	635.660
67.5	86.432	55.352	81.548	108.928	174.640	434.380	611.092
70.0	75.776	47.064	67.044	90.724	154.956	397.232	550.560
72.5	64.084	39.516	54.908	74.740	132.756	331.076	473.304
75.0	51.504	32.856	41.736	62.012	109.076	260.924	371.924
77.5	40.552	25.308	26.936	47.360	82.732	185.740	266.696
80.0	30.192	17.760	17.020	33.152	57.720	121.360	177.600
82.5	21.016	11.988	10.212	21.164	36.260	71.188	108.632
85.0	12.728	7.844	5.328	11.840	19.092	27.824	41.884
87.5	4.884	4.440	2.072	5.032	6.216	3.108	3.256
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	591.99	N.A.	23.80
0-30	1108.71	N.A.	44.60
0-40	1568.67	N.A.	63.20
0-60	2142.85	N.A.	86.30
0-80	2459.96	N.A.	99.10
0-90	2483.4	N.A.	100.00
10-90	2314.84	N.A.	93.20
20-40	976.68	N.A.	39.30
20-50	1304.07	N.A.	52.50
40-70	773.57	N.A.	31.10
60-80	317.11	N.A.	12.80
70-80	117.72	N.A.	4.70
80-90	23.44	N.A.	0.90
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	2483.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.56
10-20	423.43
20-30	516.72
30-40	459.96
40-50	327.39
50-60	246.79
60-70	199.39
70-80	117.72
80-90	23.44
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

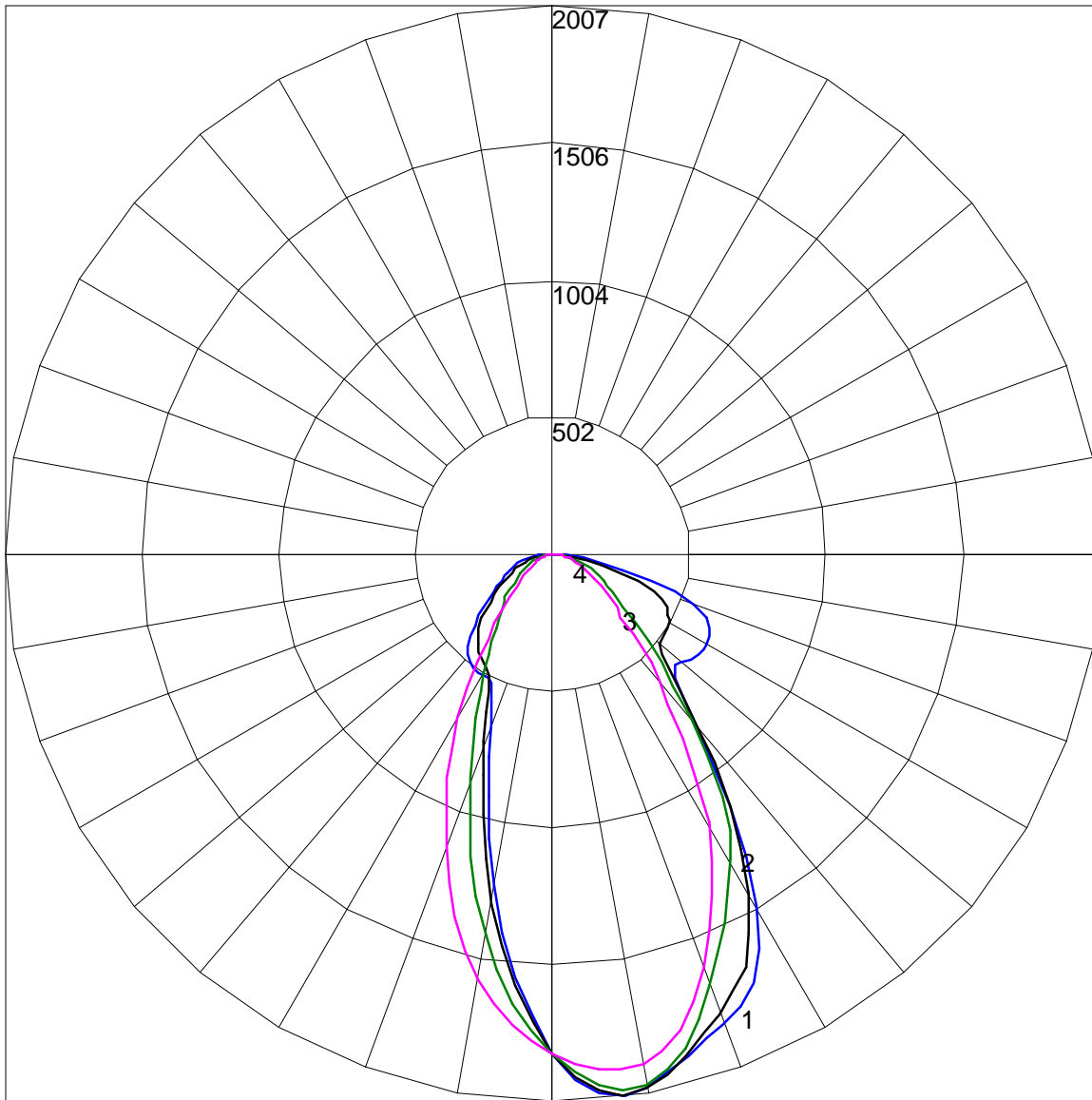
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 2007.472 Located At Horizontal Angle = 0, Vertical Angle = 7.5

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)