

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-016_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-006A_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4SQLEDOS-45L-35K-EX-CA0294OS-SG-SK
[LUMINAIRE] 4" 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	2602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	133045	87971	59799
55	155103	58575	40423
65	174595	50245	31926
75	144728	41339	8728
85	42884	22856	4477

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES

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	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376
2.5	2025.232	2028.340	2026.268	2027.896	2029.376	2033.076	2034.852	2031.152	2032.336	2031.152
5.0	2017.240	2016.796	2019.016	2015.760	2018.720	2023.012	2017.684	2009.840	2007.472	2009.840
7.5	2015.020	2009.988	2005.992	1999.184	2001.996	2001.996	1981.276	1967.364	1963.960	1967.364
10.0	2013.096	2001.996	1984.532	1957.744	1950.344	1953.156	1931.992	1906.092	1897.508	1906.092
12.5	1993.412	1986.308	1950.196	1901.652	1882.708	1883.300	1862.728	1830.612	1811.224	1830.612
15.0	1950.640	1936.284	1900.616	1823.952	1793.612	1795.536	1775.408	1736.188	1708.364	1736.188
17.5	1871.164	1868.056	1827.208	1724.644	1680.244	1682.908	1658.636	1619.120	1585.820	1619.120
20.0	1768.600	1763.124	1727.456	1610.536	1555.332	1556.664	1534.908	1493.616	1454.396	1493.616
22.5	1658.488	1647.980	1611.572	1499.092	1431.604	1428.496	1400.820	1358.196	1314.240	1358.196
25.0	1518.480	1522.920	1486.216	1386.464	1308.764	1299.292	1265.992	1217.300	1174.232	1217.300
27.5	1373.144	1382.024	1355.532	1252.968	1151.292	1158.248	1123.912	1075.664	1030.376	1075.664
30.0	1228.844	1233.432	1220.112	1078.772	967.624	988.196	987.456	940.392	891.848	940.392
32.5	1090.464	1092.092	1068.560	903.984	796.980	817.700	845.968	808.672	765.752	808.672
35.0	963.184	955.784	903.688	753.912	662.448	675.176	697.228	685.832	659.636	685.832
37.5	857.364	836.200	754.652	635.364	570.984	560.032	571.724	576.164	576.312	576.164
40.0	772.412	736.300	627.964	543.160	464.424	473.452	465.904	494.616	515.336	494.616
42.5	711.880	658.008	529.396	439.264	371.628	377.252	379.768	433.640	462.204	433.640
45.0	677.988	597.772	448.292	352.536	304.732	302.660	315.240	379.768	403.744	379.768
47.5	669.108	555.888	376.660	296.296	268.472	247.012	260.480	326.784	350.020	326.784
50.0	666.296	533.540	316.276	251.748	218.744	210.752	212.676	277.352	303.844	277.352
52.5	656.824	516.668	274.392	205.424	183.964	169.164	177.156	236.356	265.216	236.356
55.0	641.136	494.320	242.128	175.084	167.092	140.156	149.332	203.500	234.432	203.500
57.5	620.860	467.828	215.340	152.884	147.260	120.472	123.876	175.824	207.792	175.824
60.0	595.256	437.932	191.956	129.204	132.164	98.568	102.120	151.848	189.736	151.848
62.5	565.212	406.112	172.420	109.668	112.480	80.068	85.692	133.496	179.968	133.496
65.0	531.764	371.184	153.032	92.204	97.236	63.048	70.596	116.624	165.760	116.624
67.5	475.376	332.112	134.236	79.476	90.428	48.248	57.276	101.528	155.252	101.528
70.0	412.328	282.088	115.884	65.712	58.608	33.300	45.140	88.356	141.784	88.356
72.5	348.836	233.988	96.792	47.804	25.160	20.868	34.484	72.668	119.140	72.668
75.0	269.952	181.448	77.108	35.816	16.280	15.244	25.012	51.800	85.100	51.800
77.5	199.800	133.496	58.016	26.344	11.988	12.876	16.724	31.376	49.432	31.376
80.0	144.152	92.352	40.256	19.388	9.324	11.692	11.100	15.688	18.944	15.688
82.5	80.956	53.576	26.048	13.468	5.920	10.952	8.880	8.288	7.400	8.288
85.0	26.936	20.424	14.356	8.880	2.812	9.620	7.252	5.920	5.032	5.920
87.5	3.404	4.588	6.956	5.476	1.480	6.364	4.440	3.256	3.256	3.256
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	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376	2029.376
2.5	2034.852	2033.076	2029.376	2027.896	2026.268	2028.340	2025.232
5.0	2017.684	2023.012	2018.720	2015.760	2019.016	2016.796	2017.240
7.5	1981.276	2001.996	2001.996	1999.184	2005.992	2009.988	2015.020
10.0	1931.992	1953.156	1950.344	1957.744	1984.532	2001.996	2013.096
12.5	1862.728	1883.300	1882.708	1901.652	1950.196	1986.308	1993.412
15.0	1775.408	1795.536	1793.612	1823.952	1900.616	1936.284	1950.640
17.5	1658.636	1682.908	1680.244	1724.644	1827.208	1868.056	1871.164
20.0	1534.908	1556.664	1555.332	1610.536	1727.456	1763.124	1768.600
22.5	1400.820	1428.496	1431.604	1499.092	1611.572	1647.980	1658.488
25.0	1265.992	1299.292	1308.764	1386.464	1486.216	1522.920	1518.480
27.5	1123.912	1158.248	1151.292	1252.968	1355.532	1382.024	1373.144
30.0	987.456	988.196	967.624	1078.772	1220.112	1233.432	1228.844

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES****CANDELA TABULATION - (Cont.)**

32.5	845.968	817.700	796.980	903.984	1068.560	1092.092	1090.464
35.0	697.228	675.176	662.448	753.912	903.688	955.784	963.184
37.5	571.724	560.032	570.984	635.364	754.652	836.200	857.364
40.0	465.904	473.452	464.424	543.160	627.964	736.300	772.412
42.5	379.768	377.252	371.628	439.264	529.396	658.008	711.880
45.0	315.240	302.660	304.732	352.536	448.292	597.772	677.988
47.5	260.480	247.012	268.472	296.296	376.660	555.888	669.108
50.0	212.676	210.752	218.744	251.748	316.276	533.540	666.296
52.5	177.156	169.164	183.964	205.424	274.392	516.668	656.824
55.0	149.332	140.156	167.092	175.084	242.128	494.320	641.136
57.5	123.876	120.472	147.260	152.884	215.340	467.828	620.860
60.0	102.120	98.568	132.164	129.204	191.956	437.932	595.256
62.5	85.692	80.068	112.480	109.668	172.420	406.112	565.212
65.0	70.596	63.048	97.236	92.204	153.032	371.184	531.764
67.5	57.276	48.248	90.428	79.476	134.236	332.112	475.376
70.0	45.140	33.300	58.608	65.712	115.884	282.088	412.328
72.5	34.484	20.868	25.160	47.804	96.792	233.988	348.836
75.0	25.012	15.244	16.280	35.816	77.108	181.448	269.952
77.5	16.724	12.876	11.988	26.344	58.016	133.496	199.800
80.0	11.100	11.692	9.324	19.388	40.256	92.352	144.152
82.5	8.880	10.952	5.920	13.468	26.048	53.576	80.956
85.0	7.252	9.620	2.812	8.880	14.356	20.424	26.936
87.5	4.440	6.364	1.480	5.476	6.956	4.588	3.404
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	697.83	N.A.	26.80
0-30	1313.35	N.A.	50.50
0-40	1799.75	N.A.	69.20
0-60	2346.81	N.A.	90.20
0-80	2587.51	N.A.	99.40
0-90	2602.23	N.A.	100.00
10-90	2411.6	N.A.	92.70
20-40	1101.92	N.A.	42.30
20-50	1422.16	N.A.	54.70
40-70	709.24	N.A.	27.30
60-80	240.70	N.A.	9.20
70-80	78.52	N.A.	3.00
80-90	14.72	N.A.	0.60
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	2602.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.63
10-20	507.20
20-30	615.52
30-40	486.40
40-50	320.24
50-60	226.82
60-70	162.18
70-80	78.52
80-90	14.72
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

IES INDOOR REPORT

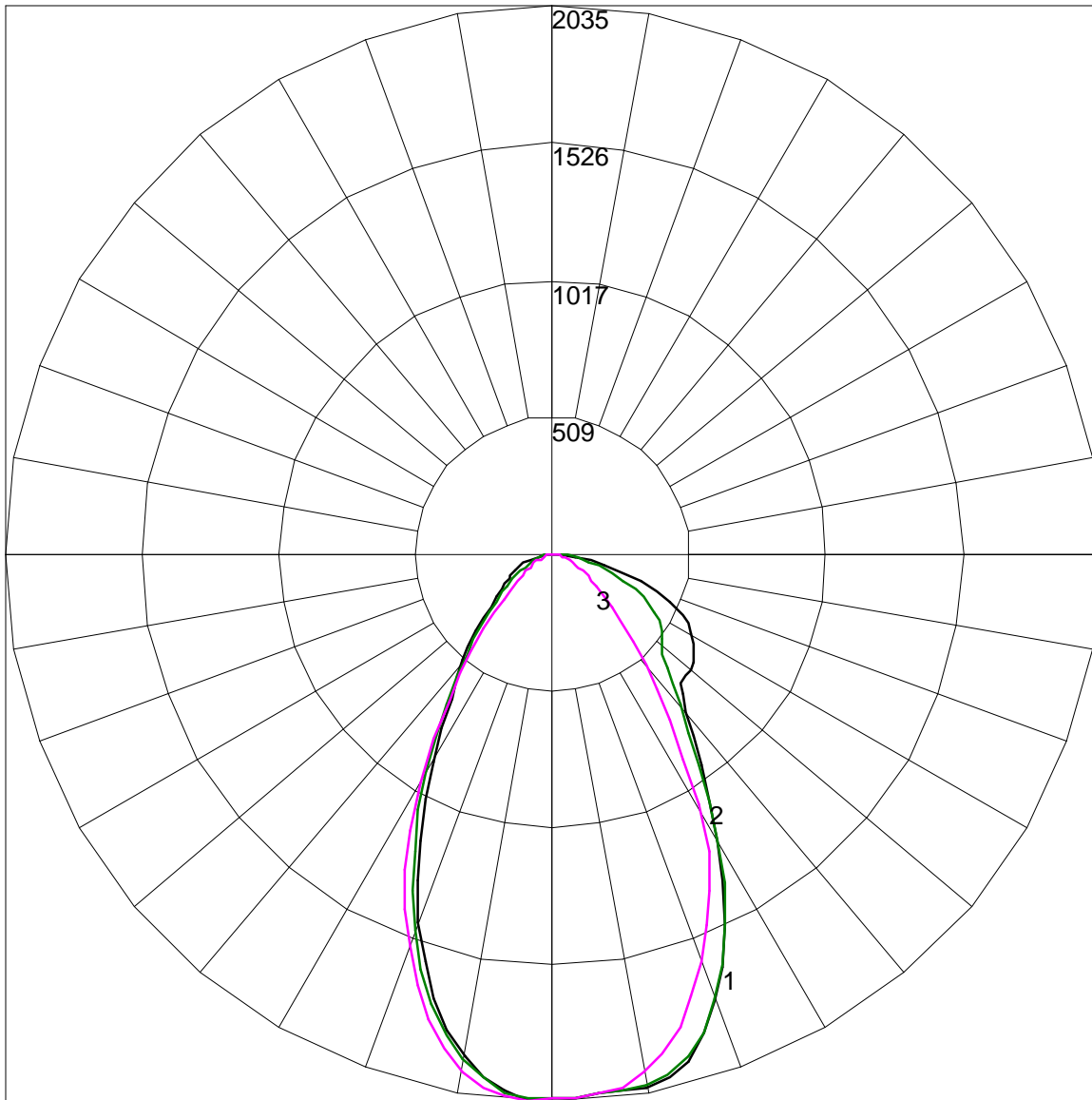
PHOTOMETRIC FILENAME : SGW4SQLEDOS-45L35KEX-CA0294OSSGSK.IES

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	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	72	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 2034.852 Located At Horizontal Angle = 135, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

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

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