

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-20L35KEX-CA0396OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-018_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 12/12/2016
[LAB-REF LUMCAT] CRT1611041146-003A_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6SQLEDOS-20L-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 (Gen3)
[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	1221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	20.24
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-20L35KEX-CA0396OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	358	314	181
55	448	196	119
65	595	181	88
75	568	167	64
85	190	87	24

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	900.936	900.936	900.936	900.936	900.936	900.936	900.936	900.936	900.936	900.936
2.5	949.606	944.877	933.455	922.397	899.845	879.329	860.633	847.392	834.079	847.392
5.0	974.632	972.886	962.119	934.547	894.825	853.358	813.854	783.372	765.185	783.372
7.5	986.781	984.380	974.195	939.712	883.840	819.674	758.128	714.405	689.306	714.405
10.0	978.051	978.924	972.522	934.910	865.943	780.971	699.200	639.764	607.390	639.764
12.5	958.554	960.227	953.243	918.323	835.825	733.684	634.016	563.012	526.856	563.012
15.0	938.184	936.365	921.306	888.860	796.467	680.576	565.559	489.244	451.632	489.244
17.5	917.887	906.101	879.402	846.810	750.853	621.940	497.319	419.331	382.811	419.331
20.0	901.809	881.512	830.441	792.175	700.583	561.557	432.353	357.857	326.429	357.857
22.5	882.821	851.830	781.553	737.321	647.621	503.139	374.226	307.369	283.943	307.369
25.0	855.758	820.329	733.175	680.576	596.550	447.922	323.592	271.285	259.499	271.285
27.5	804.106	769.404	684.359	625.796	543.443	396.779	280.233	248.296	250.842	248.296
30.0	735.794	706.184	637.872	562.067	474.985	343.526	245.531	237.747	251.788	237.747
32.5	650.167	632.489	592.549	483.206	400.052	285.107	216.359	233.964	252.952	233.964
35.0	559.302	555.446	534.640	406.673	336.032	233.091	190.169	229.381	250.187	229.381
37.5	474.112	476.585	457.525	341.925	285.326	191.114	167.762	221.524	245.168	221.524
40.0	403.326	404.417	385.357	301.913	261.173	163.906	150.593	211.193	236.729	211.193
42.5	349.127	346.072	322.792	265.538	201.445	138.807	136.843	200.426	224.434	200.426
45.0	314.498	298.857	275.795	205.955	159.104	109.343	126.149	187.768	208.793	187.768
47.5	299.876	267.720	235.274	167.471	138.516	88.464	115.091	173.000	190.678	173.000
50.0	303.877	252.006	193.079	152.339	122.002	76.388	101.705	156.776	173.218	156.776
52.5	312.461	247.859	159.759	130.441	95.885	64.820	88.391	141.062	157.286	141.062
55.0	319.591	248.150	140.117	105.051	84.899	53.471	78.206	126.367	142.372	126.367
57.5	323.374	246.914	125.639	98.576	75.878	48.233	69.040	112.908	127.604	112.908
60.0	322.792	242.767	112.472	84.099	60.892	41.904	60.892	100.104	114.581	100.104
62.5	320.027	235.637	103.160	72.532	57.254	36.157	53.908	88.610	103.014	88.610
65.0	312.461	225.889	94.866	63.511	46.269	31.719	47.942	79.661	95.812	79.661
67.5	300.385	213.521	85.845	53.544	40.085	27.209	42.486	72.023	88.901	72.023
70.0	270.630	195.261	76.169	44.596	32.956	23.135	37.248	62.420	79.589	62.420
72.5	232.655	162.742	65.257	36.739	26.990	19.424	31.501	53.253	71.441	53.253
75.0	182.821	128.258	53.617	30.482	20.516	16.151	25.317	44.814	63.584	44.814
77.5	131.096	91.301	40.667	23.280	13.241	12.440	19.934	36.230	53.544	36.230
80.0	87.300	59.655	28.373	16.296	8.366	8.730	14.841	26.845	40.231	26.845
82.5	53.399	34.993	17.824	10.403	5.020	5.893	10.331	17.315	25.681	17.315
85.0	20.588	13.677	9.385	5.820	2.619	3.856	6.257	9.021	12.295	9.021
87.5	1.601	1.528	3.056	2.474	1.019	2.183	2.401	2.619	2.401	2.619
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	900.936	900.936	900.936	900.936	900.936	900.936	900.936
2.5	860.633	879.329	899.845	922.397	933.455	944.877	949.606
5.0	813.854	853.358	894.825	934.547	962.119	972.886	974.632
7.5	758.128	819.674	883.840	939.712	974.195	984.380	986.781
10.0	699.200	780.971	865.943	934.910	972.522	978.924	978.051
12.5	634.016	733.684	835.825	918.323	953.243	960.227	958.554
15.0	565.559	680.576	796.467	888.860	921.306	936.365	938.184
17.5	497.319	621.940	750.853	846.810	879.402	906.101	917.887
20.0	432.353	561.557	700.583	792.175	830.441	881.512	901.809
22.5	374.226	503.139	647.621	737.321	781.553	851.830	882.821
25.0	323.592	447.922	596.550	680.576	733.175	820.329	855.758
27.5	280.233	396.779	543.443	625.796	684.359	769.404	804.106
30.0	245.531	343.526	474.985	562.067	637.872	706.184	735.794

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW6SQLEDOS-20L35KEX-CA0396OSSGSK.IES

CANDELA TABULATION - (Cont.)

32.5	216.359	285.107	400.052	483.206	592.549	632.489	650.167
35.0	190.169	233.091	336.032	406.673	534.640	555.446	559.302
37.5	167.762	191.114	285.326	341.925	457.525	476.585	474.112
40.0	150.593	163.906	261.173	301.913	385.357	404.417	403.326
42.5	136.843	138.807	201.445	265.538	322.792	346.072	349.127
45.0	126.149	109.343	159.104	205.955	275.795	298.857	314.498
47.5	115.091	88.464	138.516	167.471	235.274	267.720	299.876
50.0	101.705	76.388	122.002	152.339	193.079	252.006	303.877
52.5	88.391	64.820	95.885	130.441	159.759	247.859	312.461
55.0	78.206	53.471	84.899	105.051	140.117	248.150	319.591
57.5	69.040	48.233	75.878	98.576	125.639	246.914	323.374
60.0	60.892	41.904	60.892	84.099	112.472	242.767	322.792
62.5	53.908	36.157	57.254	72.532	103.160	235.637	320.027
65.0	47.942	31.719	46.269	63.511	94.866	225.889	312.461
67.5	42.486	27.209	40.085	53.544	85.845	213.521	300.385
70.0	37.248	23.135	32.956	44.596	76.169	195.261	270.630
72.5	31.501	19.424	26.990	36.739	65.257	162.742	232.655
75.0	25.317	16.151	20.516	30.482	53.617	128.258	182.821
77.5	19.934	12.440	13.241	23.280	40.667	91.301	131.096
80.0	14.841	8.730	8.366	16.296	28.373	59.655	87.300
82.5	10.331	5.893	5.020	10.403	17.824	34.993	53.399
85.0	6.257	3.856	2.619	5.820	9.385	13.677	20.588
87.5	2.401	2.183	1.019	2.474	3.056	1.528	1.601
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW6SQLEDOS-20L35KEX-CA0396OSSGSK.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	291.00	N.A.	23.80
0-30	544.99	N.A.	44.60
0-40	771.09	N.A.	63.20
0-60	1053.33	N.A.	86.30
0-80	1209.2	N.A.	99.10
0-90	1220.73	N.A.	100.00
10-90	1137.87	N.A.	93.20
20-40	480.09	N.A.	39.30
20-50	641.02	N.A.	52.50
40-70	380.25	N.A.	31.10
60-80	155.88	N.A.	12.80
70-80	57.87	N.A.	4.70
80-90	11.52	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	1220.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.86
10-20	208.14
20-30	253.99
30-40	226.10
40-50	160.93
50-60	121.31
60-70	98.01
70-80	57.87
80-90	11.52
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

IES INDOOR REPORT

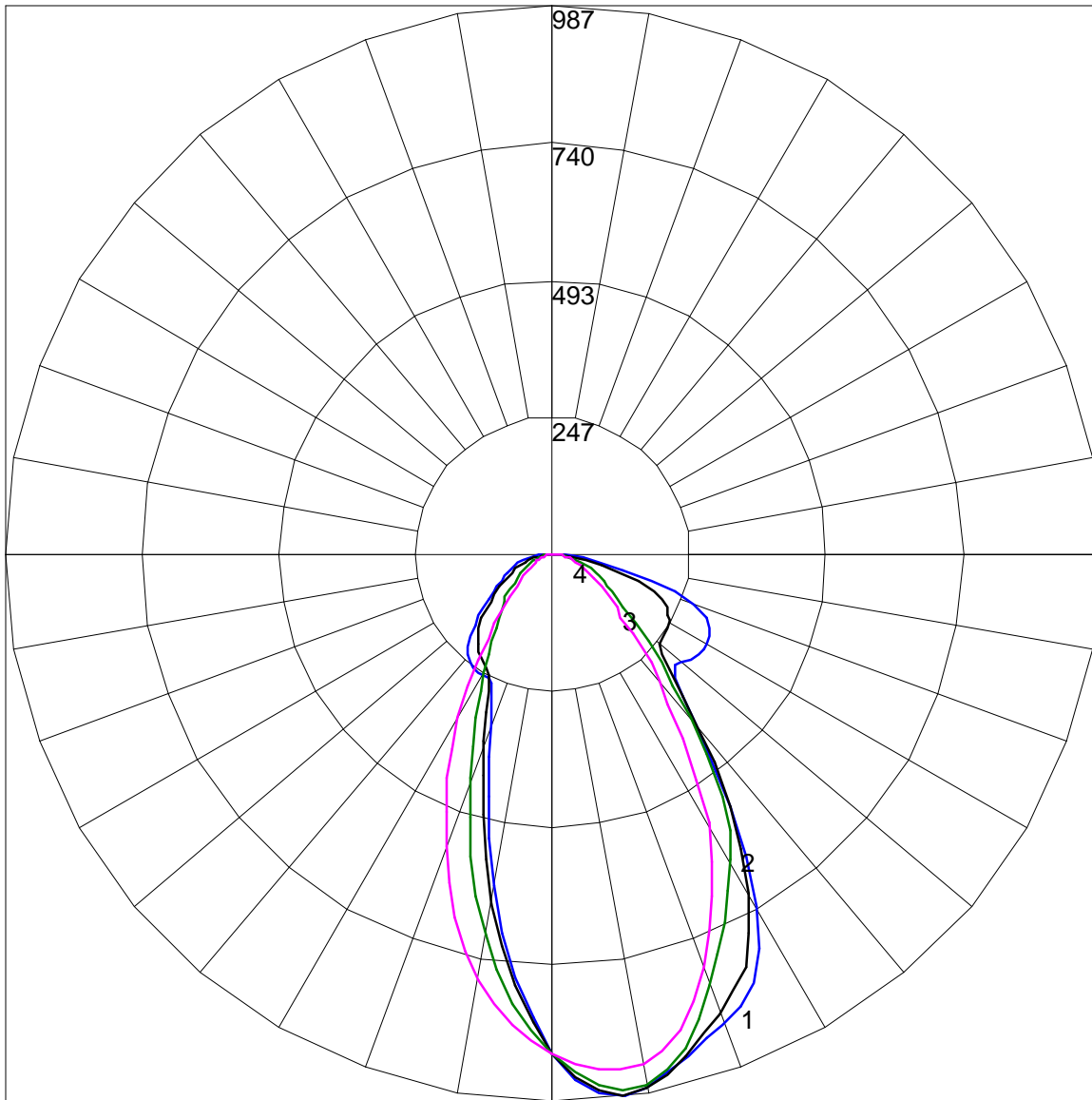
PHOTOMETRIC FILENAME : SGW6SQLEDOS-20L35KEX-CA0396OSSGSK.IES

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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
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	65	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	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	66	55	48	43	54	48	43	53	47	43	52	46	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	61	49	42	37	59	48	42	37	47	41	37	46	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 986.781 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)