

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-20L35KEX-CA0294OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-016_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 12/12/2016
[LAB-REF LUMCAT] CRT1611041146-006A_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4SQLEDOS-20L-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 (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	1279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	20.24
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-20L35KEX-CA0294OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	65399	43242	29394
55	76242	28793	19870
65	85823	24698	15693
75	71142	20321	4291
85	21081	11235	2200

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW4SQLEDOS-20L35KEX-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	997.548	997.548	997.548	997.548	997.548	997.548	997.548	997.548	997.548	997.548
2.5	995.511	997.039	996.020	996.821	997.548	999.367	1000.240	998.421	999.003	998.421
5.0	991.583	991.364	992.456	990.855	992.310	994.420	991.801	987.945	986.781	987.945
7.5	990.491	988.018	986.054	982.707	984.089	984.089	973.904	967.066	965.393	967.066
10.0	989.546	984.089	975.505	962.337	958.700	960.082	949.679	936.947	932.728	936.947
12.5	979.870	976.378	958.627	934.765	925.453	925.744	915.632	899.845	890.315	899.845
15.0	958.845	951.788	934.256	896.571	881.657	882.603	872.709	853.430	839.753	853.430
17.5	919.778	918.251	898.172	847.756	825.931	827.240	815.309	795.885	779.516	795.885
20.0	869.363	866.671	849.138	791.666	764.530	765.185	754.490	734.193	714.914	734.193
22.5	815.237	810.071	792.175	736.885	703.711	702.183	688.579	667.627	646.020	667.627
25.0	746.415	748.598	730.556	681.522	643.328	638.672	622.304	598.369	577.199	598.369
27.5	674.975	679.340	666.317	615.902	565.922	569.342	552.464	528.747	506.486	528.747
30.0	604.043	606.299	599.751	530.275	475.640	485.752	485.388	462.254	438.392	462.254
32.5	536.022	536.822	525.255	444.357	391.759	401.944	415.839	397.506	376.409	397.506
35.0	473.457	469.820	444.212	370.589	325.629	331.886	342.725	337.124	324.247	337.124
37.5	421.441	411.038	370.952	312.316	280.670	275.286	281.033	283.216	283.289	283.216
40.0	379.682	361.931	308.678	266.993	228.290	232.727	229.017	243.131	253.316	243.131
42.5	349.928	323.447	260.227	215.922	182.675	185.440	186.677	213.158	227.198	213.158
45.0	333.268	293.837	220.360	173.291	149.792	148.774	154.958	186.677	198.462	186.677
47.5	328.903	273.249	185.149	145.646	131.969	121.420	128.040	160.632	172.054	160.632
50.0	327.521	262.264	155.467	123.748	107.525	103.596	104.542	136.334	149.356	136.334
52.5	322.865	253.970	134.879	100.977	90.428	83.153	87.082	116.182	130.368	116.182
55.0	315.153	242.985	119.019	86.063	82.135	68.894	73.405	100.031	115.236	100.031
57.5	305.186	229.963	105.851	75.151	72.386	59.219	60.892	86.427	102.141	86.427
60.0	292.601	215.267	94.357	63.511	64.966	48.452	50.198	74.642	93.266	74.642
62.5	277.832	199.626	84.754	53.908	55.290	39.358	42.122	65.621	88.464	65.621
65.0	261.391	182.457	75.224	45.323	47.797	30.992	34.702	57.327	81.480	57.327
67.5	233.673	163.251	65.984	39.067	44.450	23.717	28.154	49.907	76.315	49.907
70.0	202.682	138.662	56.963	32.301	28.809	16.369	22.189	43.432	69.695	43.432
72.5	171.472	115.018	47.579	23.498	12.368	10.258	16.951	35.720	58.564	35.720
75.0	132.696	89.192	37.903	17.606	8.003	7.493	12.295	25.463	41.831	25.463
77.5	98.213	65.621	28.518	12.950	5.893	6.329	8.221	15.423	24.299	15.423
80.0	70.859	45.396	19.788	9.530	4.583	5.747	5.456	7.712	9.312	7.712
82.5	39.794	26.336	12.804	6.620	2.910	5.384	4.365	4.074	3.638	4.074
85.0	13.241	10.040	7.057	4.365	1.382	4.729	3.565	2.910	2.474	2.910
87.5	1.673	2.255	3.419	2.692	0.728	3.128	2.183	1.601	1.601	1.601
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	997.548	997.548	997.548	997.548	997.548	997.548	997.548
2.5	1000.240	999.367	997.548	996.821	996.020	997.039	995.511
5.0	991.801	994.420	992.310	990.855	992.456	991.364	991.583
7.5	973.904	984.089	984.089	982.707	986.054	988.018	990.491
10.0	949.679	960.082	958.700	962.337	975.505	984.089	989.546
12.5	915.632	925.744	925.453	934.765	958.627	976.378	979.870
15.0	872.709	882.603	881.657	896.571	934.256	951.788	958.845
17.5	815.309	827.240	825.931	847.756	898.172	918.251	919.778
20.0	754.490	765.185	764.530	791.666	849.138	866.671	869.363
22.5	688.579	702.183	703.711	736.885	792.175	810.071	815.237
25.0	622.304	638.672	643.328	681.522	730.556	748.598	746.415
27.5	552.464	569.342	565.922	615.902	666.317	679.340	674.975
30.0	485.388	485.752	475.640	530.275	599.751	606.299	604.043

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-20L35KEX-CA0294OSSGSK.IES****CANDELA TABULATION - (Cont.)**

32.5	415.839	401.944	391.759	444.357	525.255	536.822	536.022
35.0	342.725	331.886	325.629	370.589	444.212	469.820	473.457
37.5	281.033	275.286	280.670	312.316	370.952	411.038	421.441
40.0	229.017	232.727	228.290	266.993	308.678	361.931	379.682
42.5	186.677	185.440	182.675	215.922	260.227	323.447	349.928
45.0	154.958	148.774	149.792	173.291	220.360	293.837	333.268
47.5	128.040	121.420	131.969	145.646	185.149	273.249	328.903
50.0	104.542	103.596	107.525	123.748	155.467	262.264	327.521
52.5	87.082	83.153	90.428	100.977	134.879	253.970	322.865
55.0	73.405	68.894	82.135	86.063	119.019	242.985	315.153
57.5	60.892	59.219	72.386	75.151	105.851	229.963	305.186
60.0	50.198	48.452	64.966	63.511	94.357	215.267	292.601
62.5	42.122	39.358	55.290	53.908	84.754	199.626	277.832
65.0	34.702	30.992	47.797	45.323	75.224	182.457	261.391
67.5	28.154	23.717	44.450	39.067	65.984	163.251	233.673
70.0	22.189	16.369	28.809	32.301	56.963	138.662	202.682
72.5	16.951	10.258	12.368	23.498	47.579	115.018	171.472
75.0	12.295	7.493	8.003	17.606	37.903	89.192	132.696
77.5	8.221	6.329	5.893	12.950	28.518	65.621	98.213
80.0	5.456	5.747	4.583	9.530	19.788	45.396	70.859
82.5	4.365	5.384	2.910	6.620	12.804	26.336	39.794
85.0	3.565	4.729	1.382	4.365	7.057	10.040	13.241
87.5	2.183	3.128	0.728	2.692	3.419	2.255	1.673
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGW4SQLEDOS-20L35KEX-CA0294OSSGSK.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	343.02	N.A.	26.80
0-30	645.58	N.A.	50.50
0-40	884.68	N.A.	69.20
0-60	1153.58	N.A.	90.20
0-80	1271.9	N.A.	99.40
0-90	1279.14	N.A.	100.00
10-90	1185.43	N.A.	92.70
20-40	541.65	N.A.	42.30
20-50	699.07	N.A.	54.70
40-70	348.63	N.A.	27.30
60-80	118.32	N.A.	9.20
70-80	38.60	N.A.	3.00
80-90	7.24	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	1279.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.70
10-20	249.32
20-30	302.56
30-40	239.09
40-50	157.42
50-60	111.49
60-70	79.72
70-80	38.60
80-90	7.24
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

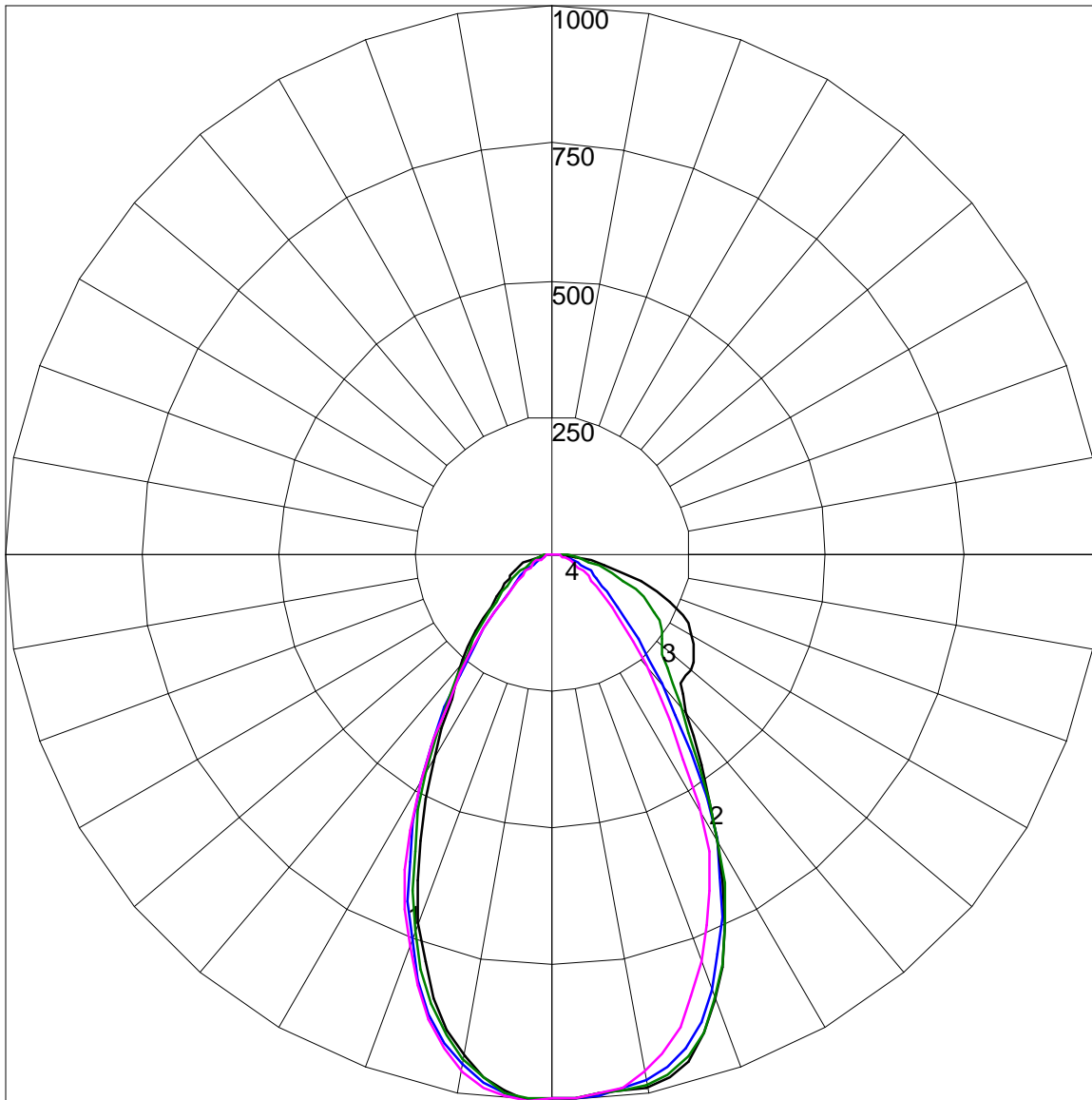
PHOTOMETRIC FILENAME : SGW4SQLEDOS-20L35KEX-CA0294OSSGSK.IES

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	68	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 = 1000.24 Located At Horizontal Angle = 135, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)
4 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)