

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-10L35KEX-CA0396OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-018_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 12/12/2016
[LAB-REF LUMCAT] CRT1611041146-003A_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6SQLEDOS-10L-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	575
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	10.46
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-10L35KEX-CA0396OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	168	148	85
55	211	92	56
65	280	85	41
75	267	78	30
85	89	41	11

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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	424.152	424.152	424.152	424.152	424.152	424.152	424.152	424.152	424.152	424.152
2.5	447.065	444.839	439.462	434.256	423.638	413.980	405.178	398.944	392.676	398.944
5.0	458.847	458.025	452.956	439.976	421.275	401.753	383.155	368.804	360.242	368.804
7.5	464.567	463.437	458.642	442.407	416.103	385.895	356.919	336.335	324.519	336.335
10.0	460.457	460.868	457.854	440.147	407.678	367.674	329.177	301.195	285.953	301.195
12.5	451.278	452.066	448.778	432.338	393.498	345.411	298.489	265.061	248.039	265.061
15.0	441.688	440.832	433.742	418.467	374.969	320.409	266.260	230.331	212.624	230.331
17.5	432.132	426.584	414.014	398.670	353.494	292.803	234.133	197.417	180.224	197.417
20.0	424.563	415.007	390.964	372.948	329.828	264.376	203.548	168.476	153.680	168.476
22.5	415.624	401.033	367.948	347.124	304.894	236.873	176.182	144.706	133.678	144.706
25.0	402.883	386.203	345.172	320.409	280.850	210.877	152.344	127.718	122.170	127.718
27.5	378.565	362.228	322.190	294.619	255.848	186.800	131.931	116.895	118.094	116.895
30.0	346.405	332.465	300.304	264.616	223.618	161.729	115.594	111.929	118.539	111.929
32.5	306.092	297.770	278.966	227.489	188.341	134.226	101.860	110.148	119.087	110.148
35.0	263.314	261.499	251.703	191.458	158.201	109.737	89.530	107.990	117.786	107.990
37.5	223.207	224.372	215.398	160.975	134.329	89.975	78.981	104.291	115.423	104.291
40.0	189.882	190.396	181.422	142.138	122.958	77.165	70.898	99.428	111.450	99.428
42.5	164.366	162.927	151.967	125.013	94.838	65.349	64.424	94.359	105.661	94.359
45.0	148.063	140.699	129.842	96.962	74.905	51.478	59.390	88.399	98.298	88.399
47.5	141.179	126.040	110.765	78.844	65.212	41.648	54.184	81.447	89.769	81.447
50.0	143.062	118.642	90.900	71.720	57.437	35.963	47.882	73.809	81.549	73.809
52.5	147.104	116.690	75.213	61.410	45.142	30.517	41.614	66.411	74.049	66.411
55.0	150.460	116.827	65.966	49.457	39.970	25.174	36.819	59.492	67.027	59.492
57.5	152.241	116.245	59.150	46.409	35.723	22.708	32.503	53.156	60.075	53.156
60.0	151.967	114.292	52.951	39.593	28.667	19.728	28.667	47.128	53.944	47.128
62.5	150.666	110.936	48.567	34.147	26.955	17.022	25.379	41.717	48.498	41.717
65.0	147.104	106.346	44.662	29.900	21.783	14.933	22.571	37.504	45.107	37.504
67.5	141.418	100.524	40.415	25.208	18.872	12.810	20.002	33.908	41.854	33.908
70.0	127.410	91.927	35.860	20.995	15.515	10.892	17.536	29.387	37.470	29.387
72.5	109.532	76.617	30.722	17.296	12.707	9.145	14.830	25.071	33.634	25.071
75.0	86.070	60.383	25.242	14.351	9.659	7.604	11.919	21.098	29.935	21.098
77.5	61.719	42.984	19.146	10.960	6.234	5.857	9.385	17.057	25.208	17.057
80.0	41.100	28.085	13.358	7.672	3.939	4.110	6.987	12.638	18.940	12.638
82.5	25.140	16.474	8.391	4.898	2.363	2.774	4.864	8.152	12.090	8.152
85.0	9.693	6.439	4.418	2.740	1.233	1.815	2.946	4.247	5.788	4.247
87.5	0.754	0.719	1.439	1.165	0.480	1.028	1.130	1.233	1.130	1.233
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	424.152	424.152	424.152	424.152	424.152	424.152	424.152
2.5	405.178	413.980	423.638	434.256	439.462	444.839	447.065
5.0	383.155	401.753	421.275	439.976	452.956	458.025	458.847
7.5	356.919	385.895	416.103	442.407	458.642	463.437	464.567
10.0	329.177	367.674	407.678	440.147	457.854	460.868	460.457
12.5	298.489	345.411	393.498	432.338	448.778	452.066	451.278
15.0	266.260	320.409	374.969	418.467	433.742	440.832	441.688
17.5	234.133	292.803	353.494	398.670	414.014	426.584	432.132
20.0	203.548	264.376	329.828	372.948	390.964	415.007	424.563
22.5	176.182	236.873	304.894	347.124	367.948	401.033	415.624
25.0	152.344	210.877	280.850	320.409	345.172	386.203	402.883
27.5	131.931	186.800	255.848	294.619	322.190	362.228	378.565
30.0	115.594	161.729	223.618	264.616	300.304	332.465	346.405

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32.5	101.860	134.226	188.341	227.489	278.966	297.770	306.092
35.0	89.530	109.737	158.201	191.458	251.703	261.499	263.314
37.5	78.981	89.975	134.329	160.975	215.398	224.372	223.207
40.0	70.898	77.165	122.958	142.138	181.422	190.396	189.882
42.5	64.424	65.349	94.838	125.013	151.967	162.927	164.366
45.0	59.390	51.478	74.905	96.962	129.842	140.699	148.063
47.5	54.184	41.648	65.212	78.844	110.765	126.040	141.179
50.0	47.882	35.963	57.437	71.720	90.900	118.642	143.062
52.5	41.614	30.517	45.142	61.410	75.213	116.690	147.104
55.0	36.819	25.174	39.970	49.457	65.966	116.827	150.460
57.5	32.503	22.708	35.723	46.409	59.150	116.245	152.241
60.0	28.667	19.728	28.667	39.593	52.951	114.292	151.967
62.5	25.379	17.022	26.955	34.147	48.567	110.936	150.666
65.0	22.571	14.933	21.783	29.900	44.662	106.346	147.104
67.5	20.002	12.810	18.872	25.208	40.415	100.524	141.418
70.0	17.536	10.892	15.515	20.995	35.860	91.927	127.410
72.5	14.830	9.145	12.707	17.296	30.722	76.617	109.532
75.0	11.919	7.604	9.659	14.351	25.242	60.383	86.070
77.5	9.385	5.857	6.234	10.960	19.146	42.984	61.719
80.0	6.987	4.110	3.939	7.672	13.358	28.085	41.100
82.5	4.864	2.774	2.363	4.898	8.391	16.474	25.140
85.0	2.946	1.815	1.233	2.740	4.418	6.439	9.693
87.5	1.130	1.028	0.480	1.165	1.439	0.719	0.754
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	137.00	N.A.	23.80
0-30	256.58	N.A.	44.60
0-40	363.02	N.A.	63.20
0-60	495.90	N.A.	86.30
0-80	569.28	N.A.	99.10
0-90	574.71	N.A.	100.00
10-90	535.70	N.A.	93.20
20-40	226.02	N.A.	39.30
20-50	301.79	N.A.	52.50
40-70	179.02	N.A.	31.10
60-80	73.39	N.A.	12.80
70-80	27.24	N.A.	4.70
80-90	5.42	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	574.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.01
10-20	97.99
20-30	119.58
30-40	106.44
40-50	75.76
50-60	57.11
60-70	46.14
70-80	27.24
80-90	5.42
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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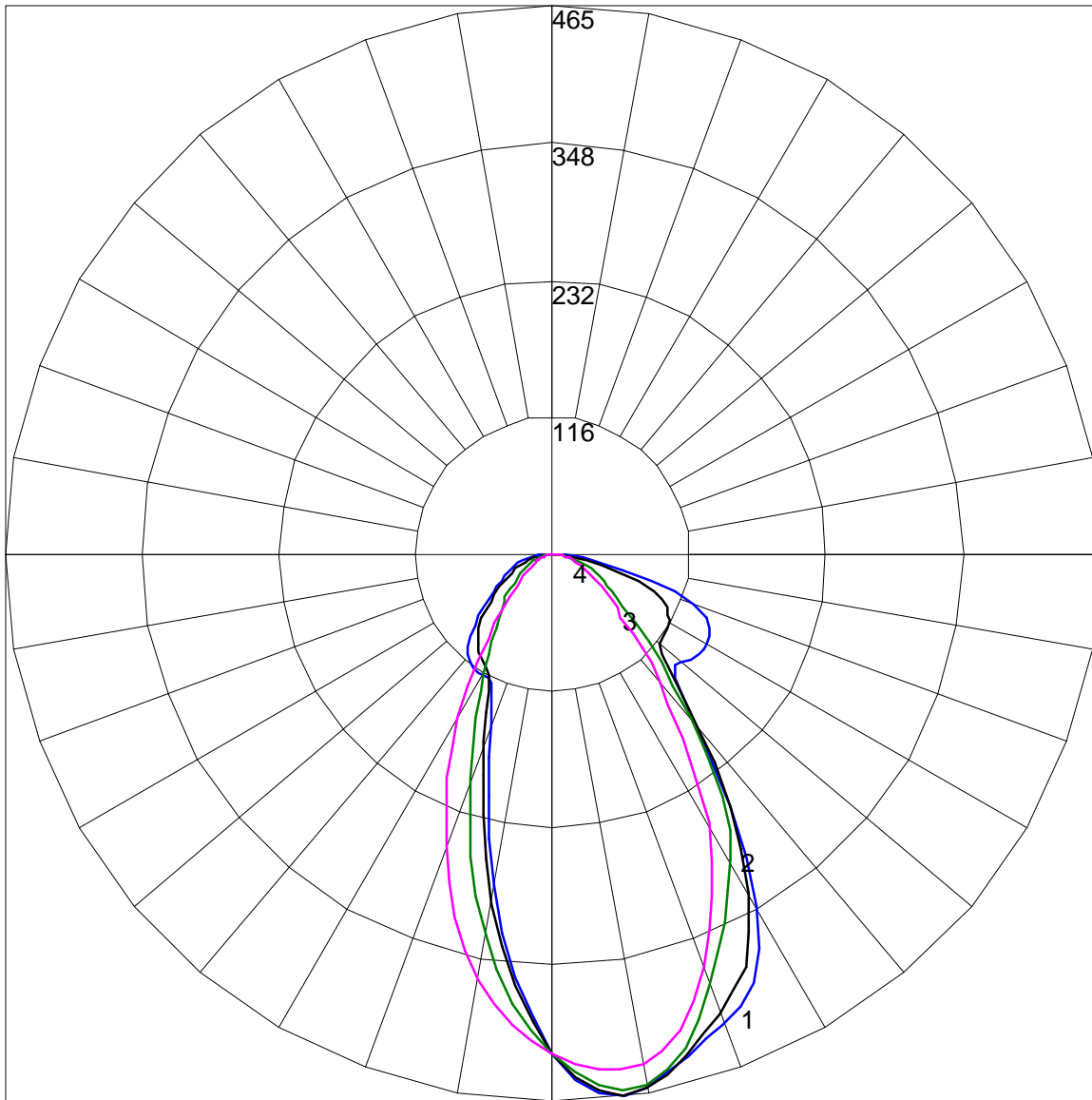
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	95	96	94	92	93	91	89	87
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	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	46	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	41	37	47	41	37	46	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 464.567 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)