

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGW4SQLEDOS-10L35KEX-CA0294OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-016\_M-10L  
[TESTLAB] Intertek  
[ISSUE DATE] 11/14/2016  
[UPDATE] 12/12/2016  
[LAB-REF LUMCAT] CRT1611041146-006A\_M-10L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGW4SQLEDOS-10L-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	602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	10.46
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-10L35KEX-CA0294OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	30789	20358	13839
55	35894	13555	9355
65	40405	11628	7388
75	33493	9567	2020
85	9925	5289	1036

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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>
<b>0.0</b>	469.636	469.636	469.636	469.636	469.636	469.636	469.636	469.636	469.636	469.636
<b>2.5</b>	468.677	469.396	468.917	469.294	469.636	470.492	470.903	470.047	470.321	470.047
<b>5.0</b>	466.828	466.725	467.239	466.485	467.170	468.163	466.930	465.115	464.567	465.115
<b>7.5</b>	466.314	465.149	464.225	462.649	463.300	463.300	458.505	455.285	454.498	455.285
<b>10.0</b>	465.869	463.300	459.258	453.059	451.347	451.997	447.100	441.106	439.119	441.106
<b>12.5</b>	461.313	459.669	451.312	440.078	435.694	435.831	431.071	423.638	419.152	423.638
<b>15.0</b>	451.415	448.093	439.839	422.097	415.076	415.521	410.863	401.787	395.348	401.787
<b>17.5</b>	433.023	432.304	422.851	399.115	388.840	389.457	383.840	374.695	366.989	374.695
<b>20.0</b>	409.288	408.020	399.766	372.709	359.933	360.242	355.207	345.651	336.575	345.651
<b>22.5</b>	383.806	381.374	372.948	346.918	331.300	330.581	324.176	314.312	304.140	314.312
<b>25.0</b>	351.405	352.433	343.939	320.854	302.873	300.681	292.975	281.706	271.740	281.706
<b>27.5</b>	317.772	319.827	313.696	289.961	266.431	268.041	260.095	248.929	238.449	248.929
<b>30.0</b>	284.378	285.440	282.357	249.648	223.927	228.687	228.516	217.625	206.391	217.625
<b>32.5</b>	252.354	252.731	247.285	209.199	184.436	189.231	195.773	187.142	177.210	187.142
<b>35.0</b>	222.899	221.187	209.131	174.470	153.303	156.249	161.352	158.715	152.652	158.715
<b>37.5</b>	198.410	193.513	174.641	147.035	132.137	129.602	132.308	133.335	133.370	133.335
<b>40.0</b>	178.751	170.394	145.323	125.698	107.477	109.566	107.819	114.464	119.259	114.464
<b>42.5</b>	164.743	152.276	122.512	101.654	86.002	87.303	87.886	100.353	106.963	100.353
<b>45.0</b>	156.899	138.336	103.743	81.584	70.521	70.041	72.953	87.886	93.434	87.886
<b>47.5</b>	154.844	128.643	87.166	68.569	62.130	57.163	60.280	75.624	81.001	75.624
<b>50.0</b>	154.194	123.471	73.192	58.259	50.622	48.772	49.217	64.185	70.315	64.185
<b>52.5</b>	152.002	119.567	63.500	47.539	42.573	39.148	40.997	54.697	61.376	54.697
<b>55.0</b>	148.371	114.395	56.033	40.518	38.668	32.435	34.558	47.094	54.252	47.094
<b>57.5</b>	143.679	108.264	49.834	35.380	34.079	27.880	28.667	40.689	48.087	40.689
<b>60.0</b>	137.754	101.346	44.422	29.900	30.585	22.811	23.633	35.141	43.909	35.141
<b>62.5</b>	130.801	93.982	39.901	25.379	26.030	18.529	19.831	30.894	41.648	30.894
<b>65.0</b>	123.060	85.899	35.415	21.338	22.502	14.591	16.337	26.989	38.360	26.989
<b>67.5</b>	110.011	76.857	31.065	18.392	20.927	11.166	13.255	23.496	35.928	23.496
<b>70.0</b>	95.421	65.281	26.818	15.207	13.563	7.706	10.446	20.447	32.812	20.447
<b>72.5</b>	80.727	54.149	22.400	11.063	5.823	4.829	7.980	16.817	27.571	16.817
<b>75.0</b>	62.472	41.991	17.844	8.289	3.768	3.528	5.788	11.988	19.694	11.988
<b>77.5</b>	46.238	30.894	13.426	6.097	2.774	2.980	3.870	7.261	11.440	7.261
<b>80.0</b>	33.360	21.372	9.316	4.487	2.158	2.706	2.569	3.631	4.384	3.631
<b>82.5</b>	18.735	12.399	6.028	3.117	1.370	2.535	2.055	1.918	1.713	1.918
<b>85.0</b>	6.234	4.727	3.322	2.055	0.651	2.226	1.678	1.370	1.165	1.370
<b>87.5</b>	0.788	1.062	1.610	1.267	0.343	1.473	1.028	0.754	0.754	0.754
<b>90.0</b>	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>
<b>0.0</b>	469.636	469.636	469.636	469.636	469.636	469.636	469.636
<b>2.5</b>	470.903	470.492	469.636	469.294	468.917	469.396	468.677
<b>5.0</b>	466.930	468.163	467.170	466.485	467.239	466.725	466.828
<b>7.5</b>	458.505	463.300	463.300	462.649	464.225	465.149	466.314
<b>10.0</b>	447.100	451.997	451.347	453.059	459.258	463.300	465.869
<b>12.5</b>	431.071	435.831	435.694	440.078	451.312	459.669	461.313
<b>15.0</b>	410.863	415.521	415.076	422.097	439.839	448.093	451.415
<b>17.5</b>	383.840	389.457	388.840	399.115	422.851	432.304	433.023
<b>20.0</b>	355.207	360.242	359.933	372.709	399.766	408.020	409.288
<b>22.5</b>	324.176	330.581	331.300	346.918	372.948	381.374	383.806
<b>25.0</b>	292.975	300.681	302.873	320.854	343.939	352.433	351.405
<b>27.5</b>	260.095	268.041	266.431	289.961	313.696	319.827	317.772
<b>30.0</b>	228.516	228.687	223.927	249.648	282.357	285.440	284.378

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<b>32.5</b>	195.773	189.231	184.436	209.199	247.285	252.731	252.354
<b>35.0</b>	161.352	156.249	153.303	174.470	209.131	221.187	222.899
<b>37.5</b>	132.308	129.602	132.137	147.035	174.641	193.513	198.410
<b>40.0</b>	107.819	109.566	107.477	125.698	145.323	170.394	178.751
<b>42.5</b>	87.886	87.303	86.002	101.654	122.512	152.276	164.743
<b>45.0</b>	72.953	70.041	70.521	81.584	103.743	138.336	156.899
<b>47.5</b>	60.280	57.163	62.130	68.569	87.166	128.643	154.844
<b>50.0</b>	49.217	48.772	50.622	58.259	73.192	123.471	154.194
<b>52.5</b>	40.997	39.148	42.573	47.539	63.500	119.567	152.002
<b>55.0</b>	34.558	32.435	38.668	40.518	56.033	114.395	148.371
<b>57.5</b>	28.667	27.880	34.079	35.380	49.834	108.264	143.679
<b>60.0</b>	23.633	22.811	30.585	29.900	44.422	101.346	137.754
<b>62.5</b>	19.831	18.529	26.030	25.379	39.901	93.982	130.801
<b>65.0</b>	16.337	14.591	22.502	21.338	35.415	85.899	123.060
<b>67.5</b>	13.255	11.166	20.927	18.392	31.065	76.857	110.011
<b>70.0</b>	10.446	7.706	13.563	15.207	26.818	65.281	95.421
<b>72.5</b>	7.980	4.829	5.823	11.063	22.400	54.149	80.727
<b>75.0</b>	5.788	3.528	3.768	8.289	17.844	41.991	62.472
<b>77.5</b>	3.870	2.980	2.774	6.097	13.426	30.894	46.238
<b>80.0</b>	2.569	2.706	2.158	4.487	9.316	21.372	33.360
<b>82.5</b>	2.055	2.535	1.370	3.117	6.028	12.399	18.735
<b>85.0</b>	1.678	2.226	0.651	2.055	3.322	4.727	6.234
<b>87.5</b>	1.028	1.473	0.343	1.267	1.610	1.062	0.788
<b>90.0</b>	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	161.49	N.A.	26.80
0-30	303.94	N.A.	50.50
0-40	416.50	N.A.	69.20
0-60	543.10	N.A.	90.20
0-80	598.80	N.A.	99.40
0-90	602.21	N.A.	100.00
10-90	558.09	N.A.	92.70
20-40	255.01	N.A.	42.30
20-50	329.11	N.A.	54.70
40-70	164.13	N.A.	27.30
60-80	55.70	N.A.	9.20
70-80	18.17	N.A.	3.00
80-90	3.41	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	602.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.12
10-20	117.38
20-30	142.44
30-40	112.56
40-50	74.11
50-60	52.49
60-70	37.53
70-80	18.17
80-90	3.41
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

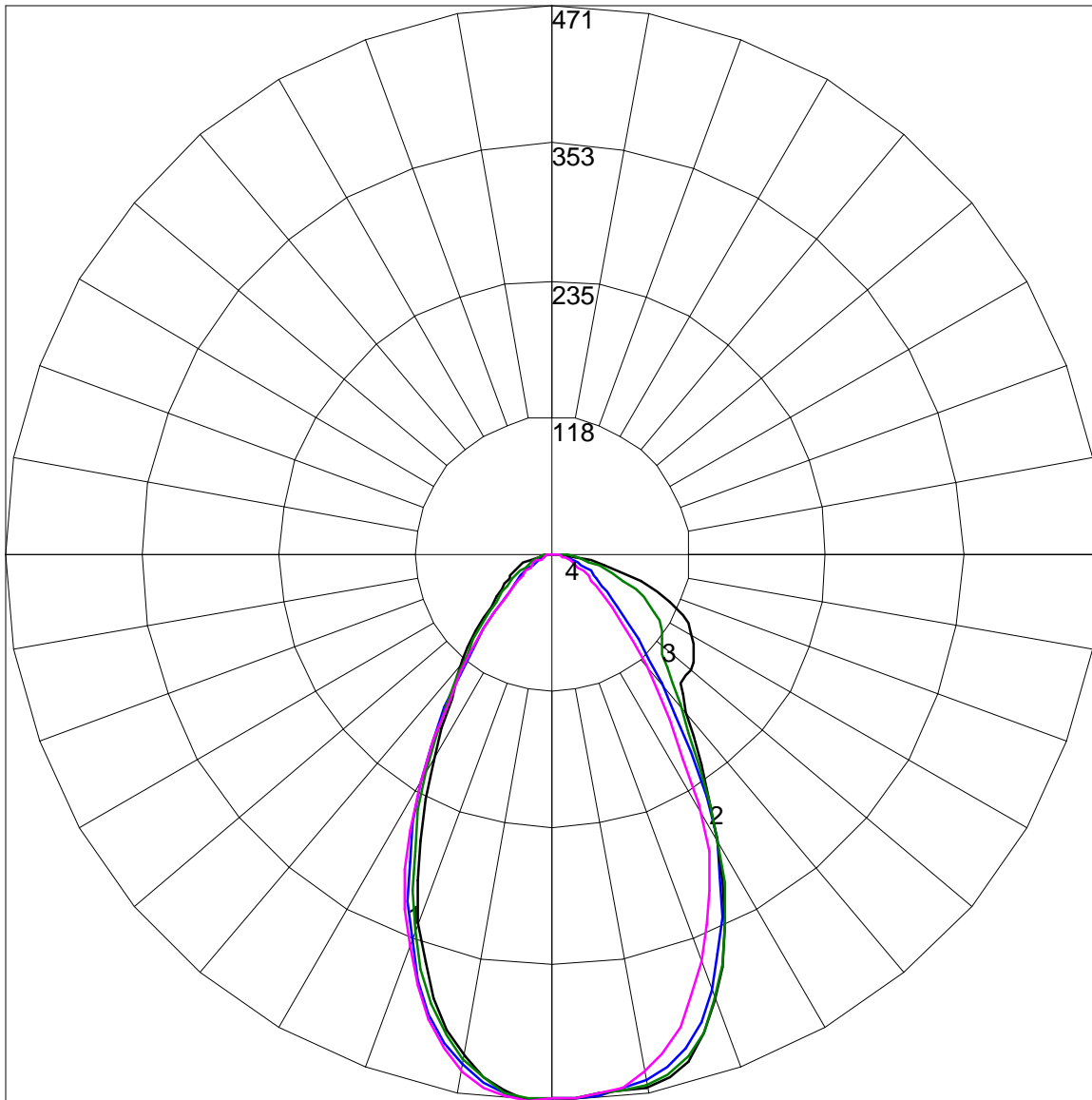
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	47	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 = 470.903 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)