

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW5LEDOS-10L35KEX-AR5923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-013_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-002_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW5LEDOS-10L-35K-EX-AR5923OS-SG-SK
[LUMINAIRE] 5" Aperture 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	691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.42 ft (Diameter)
Luminous Width (90-270)	0.42 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23227	15035	9636
55	18174	8037	3713
65	17966	4328	226
75	20143	2260	0
85	7046	0	0

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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	627.357	627.357	627.357	627.357	627.357	627.357	627.357	627.357	627.357	627.357
2.5	634.036	632.700	631.159	628.522	624.960	622.049	618.041	616.192	614.753	616.192
5.0	635.269	633.659	628.899	623.727	616.980	609.616	601.875	596.498	593.416	596.498
7.5	634.550	631.125	623.727	613.144	604.684	593.929	581.428	570.948	566.290	570.948
10.0	626.775	623.453	613.692	598.656	586.018	572.523	554.028	542.520	535.533	542.520
12.5	616.158	611.637	598.450	579.065	564.920	548.171	527.656	508.784	500.427	508.784
15.0	601.362	595.231	577.729	556.357	539.095	519.093	494.399	472.856	462.718	472.856
17.5	582.558	573.619	553.035	527.998	509.880	486.590	458.197	431.824	419.597	431.824
20.0	558.481	548.514	523.785	494.707	474.774	450.936	417.679	387.779	372.914	387.779
22.5	530.053	518.716	492.001	459.978	437.886	412.541	376.716	343.322	326.608	343.322
25.0	502.619	489.261	458.368	422.988	400.040	373.017	335.787	299.790	283.522	299.790
27.5	470.766	456.039	421.412	384.217	361.886	334.828	294.619	257.971	241.839	257.971
30.0	440.661	421.583	382.744	342.055	316.265	294.173	254.443	217.590	201.698	217.590
32.5	405.315	382.093	340.788	291.810	266.328	247.628	217.453	180.189	164.948	180.189
35.0	367.263	340.616	295.509	242.387	220.467	203.753	181.217	146.385	132.582	146.385
37.5	327.019	297.496	246.669	198.787	182.827	166.010	144.295	116.005	103.606	116.005
40.0	285.611	257.766	203.514	166.181	156.899	137.617	113.402	89.084	79.289	89.084
42.5	246.429	222.283	166.318	136.521	117.580	113.025	87.440	67.370	58.979	67.370
45.0	211.597	189.094	136.966	102.784	87.783	82.269	66.411	49.526	42.881	49.526
47.5	182.964	160.016	112.169	77.987	67.884	59.527	49.628	35.860	30.620	35.860
50.0	161.215	136.452	89.598	61.753	52.779	44.388	34.593	25.345	20.345	25.345
52.5	145.563	119.293	71.685	47.402	37.641	31.579	23.187	16.714	11.885	16.714
55.0	134.294	106.723	59.390	35.038	27.434	21.167	15.378	9.282	5.343	9.282
57.5	124.876	96.893	49.115	25.893	19.112	14.488	9.487	3.768	1.507	3.768
60.0	114.703	87.269	39.593	17.399	11.474	8.494	4.555	0.411	0.000	0.411
62.5	105.627	77.919	30.688	9.830	5.275	3.802	1.336	0.000	0.000	0.000
65.0	97.818	70.110	23.564	4.487	1.233	0.754	0.000	0.000	0.000	0.000
67.5	91.105	64.185	18.632	1.850	0.000	0.000	0.000	0.000	0.000	0.000
70.0	85.351	58.499	14.693	0.788	0.000	0.000	0.000	0.000	0.000	0.000
72.5	77.474	51.101	10.823	0.034	0.000	0.000	0.000	0.000	0.000	0.000
75.0	67.164	42.299	7.535	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	54.903	32.949	4.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	42.436	22.434	2.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	23.770	11.371	0.514	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	7.912	2.706	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	627.357	627.357	627.357	627.357	627.357	627.357	627.357
2.5	618.041	622.049	624.960	628.522	631.159	632.700	634.036
5.0	601.875	609.616	616.980	623.727	628.899	633.659	635.269
7.5	581.428	593.929	604.684	613.144	623.727	631.125	634.550
10.0	554.028	572.523	586.018	598.656	613.692	623.453	626.775
12.5	527.656	548.171	564.920	579.065	598.450	611.637	616.158
15.0	494.399	519.093	539.095	556.357	577.729	595.231	601.362
17.5	458.197	486.590	509.880	527.998	553.035	573.619	582.558
20.0	417.679	450.936	474.774	494.707	523.785	548.514	558.481
22.5	376.716	412.541	437.886	459.978	492.001	518.716	530.053
25.0	335.787	373.017	400.040	422.988	458.368	489.261	502.619
27.5	294.619	334.828	361.886	384.217	421.412	456.039	470.766
30.0	254.443	294.173	316.265	342.055	382.744	421.583	440.661

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32.5	217.453	247.628	266.328	291.810	340.788	382.093	405.315
35.0	181.217	203.753	220.467	242.387	295.509	340.616	367.263
37.5	144.295	166.010	182.827	198.787	246.669	297.496	327.019
40.0	113.402	137.617	156.899	166.181	203.514	257.766	285.611
42.5	87.440	113.025	117.580	136.521	166.318	222.283	246.429
45.0	66.411	82.269	87.783	102.784	136.966	189.094	211.597
47.5	49.628	59.527	67.884	77.987	112.169	160.016	182.964
50.0	34.593	44.388	52.779	61.753	89.598	136.452	161.215
52.5	23.187	31.579	37.641	47.402	71.685	119.293	145.563
55.0	15.378	21.167	27.434	35.038	59.390	106.723	134.294
57.5	9.487	14.488	19.112	25.893	49.115	96.893	124.876
60.0	4.555	8.494	11.474	17.399	39.593	87.269	114.703
62.5	1.336	3.802	5.275	9.830	30.688	77.919	105.627
65.0	0.000	0.754	1.233	4.487	23.564	70.110	97.818
67.5	0.000	0.000	0.000	1.850	18.632	64.185	91.105
70.0	0.000	0.000	0.000	0.788	14.693	58.499	85.351
72.5	0.000	0.000	0.000	0.034	10.823	51.101	77.474
75.0	0.000	0.000	0.000	0.000	7.535	42.299	67.164
77.5	0.000	0.000	0.000	0.000	4.727	32.949	54.903
80.0	0.000	0.000	0.000	0.000	2.500	22.434	42.436
82.5	0.000	0.000	0.000	0.000	0.514	11.371	23.770
85.0	0.000	0.000	0.000	0.000	0.000	2.706	7.912
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	207.12	N.A.	30.00
0-30	388.28	N.A.	56.20
0-40	535.30	N.A.	77.50
0-60	658.76	N.A.	95.30
0-80	689.20	N.A.	99.70
0-90	691.01	N.A.	100.00
10-90	633.23	N.A.	91.60
20-40	328.18	N.A.	47.50
20-50	411.77	N.A.	59.60
40-70	142.99	N.A.	20.70
60-80	30.43	N.A.	4.40
70-80	10.90	N.A.	1.60
80-90	1.82	N.A.	0.30
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	691.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.78
10-20	149.34
20-30	181.16
30-40	147.02
40-50	83.59
50-60	39.87
60-70	19.54
70-80	10.90
80-90	1.82
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

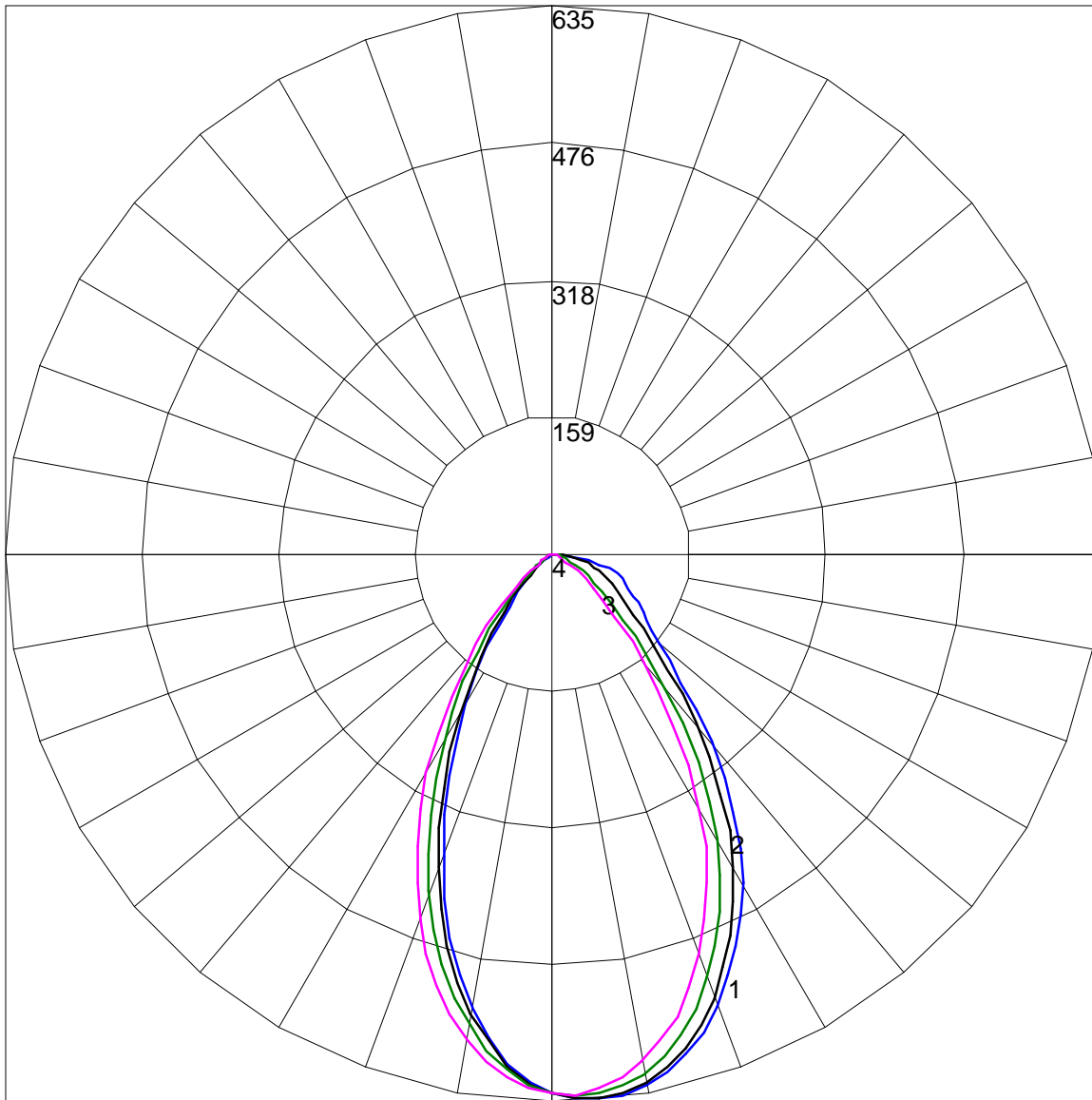
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

POLAR GRAPH



Maximum Candela = 635.269 Located At Horizontal Angle = 0, Vertical Angle = 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)