

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6LEDOS-10L35KEX-AR6923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-014_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-004_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6LEDOS-10L-35K-EX-AR6923OS-SG-SK
[LUMINAIRE] 6" 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	702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	21886	11354	4722
55	18815	6027	1154
65	17635	2929	84
75	12618	1145	0
85	6650	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	737.848	737.848	737.848	737.848	737.848	737.848	737.848	737.848	737.848	737.848
2.5	749.596	749.253	746.171	740.965	733.156	725.621	718.223	712.503	707.057	712.503
5.0	753.569	751.616	745.075	733.327	720.141	704.625	685.651	673.047	666.676	673.047
7.5	748.705	745.417	734.526	717.675	699.214	672.773	646.606	625.234	614.822	625.234
10.0	736.478	730.484	715.243	695.309	671.334	636.571	600.026	571.804	555.946	571.804
12.5	721.545	711.578	690.172	665.512	637.838	594.854	548.822	513.236	491.933	513.236
15.0	697.022	687.055	661.813	630.200	598.759	551.083	493.954	449.874	426.447	449.874
17.5	667.498	655.374	625.919	589.306	556.357	503.749	438.640	385.792	360.002	385.792
20.0	638.591	622.357	587.251	546.801	513.099	455.046	381.819	323.902	296.400	323.902
22.5	609.410	589.580	550.295	504.503	469.157	406.616	327.875	265.301	236.907	265.301
25.0	580.743	558.618	512.414	460.697	424.734	359.831	275.028	211.014	184.676	211.014
27.5	551.665	525.292	471.040	417.610	379.113	313.970	225.057	163.030	138.918	163.030
30.0	523.237	491.145	427.885	367.537	323.834	263.828	180.635	122.101	101.620	122.101
32.5	489.707	452.271	381.545	308.045	264.444	211.288	142.617	89.495	73.021	89.495
35.0	452.854	407.507	330.341	249.374	209.747	164.503	106.963	64.801	53.464	64.801
37.5	408.705	360.653	275.473	198.376	165.256	125.115	76.686	46.786	38.771	46.786
40.0	364.078	316.059	224.646	157.893	131.554	96.345	54.252	33.976	26.099	33.976
42.5	320.101	276.432	181.251	122.033	91.242	70.761	38.120	23.085	16.166	23.085
45.0	282.563	240.778	146.590	84.803	60.965	46.066	27.297	14.248	9.659	14.248
47.5	252.114	209.781	119.978	58.054	42.196	30.277	19.043	8.254	5.994	8.254
50.0	229.235	185.669	96.928	41.306	29.455	20.893	12.159	4.966	4.453	4.966
52.5	212.727	168.031	78.022	28.907	18.769	13.563	7.124	3.562	3.117	3.562
55.0	197.040	153.509	63.123	19.180	12.090	8.220	3.699	2.329	1.952	2.329
57.5	180.669	138.713	49.937	11.953	6.371	4.247	1.952	1.302	0.959	1.302
60.0	164.743	123.917	38.326	6.302	2.432	1.747	1.062	0.445	0.171	0.445
62.5	150.940	109.395	29.284	3.768	1.233	0.856	0.308	0.000	0.000	0.000
65.0	136.075	94.393	22.605	2.535	0.651	0.240	0.000	0.000	0.000	0.000
67.5	115.662	78.022	16.748	1.576	0.103	0.000	0.000	0.000	0.000	0.000
70.0	98.092	62.712	11.988	0.891	0.000	0.000	0.000	0.000	0.000	0.000
72.5	78.124	47.950	8.323	0.343	0.000	0.000	0.000	0.000	0.000	0.000
75.0	59.629	34.867	5.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	44.046	24.557	3.562	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	30.654	16.509	1.884	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	20.756	9.933	0.754	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	10.583	4.316	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	2.569	0.754	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. 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	737.848	737.848	737.848	737.848	737.848	737.848	737.848
2.5	718.223	725.621	733.156	740.965	746.171	749.253	749.596
5.0	685.651	704.625	720.141	733.327	745.075	751.616	753.569
7.5	646.606	672.773	699.214	717.675	734.526	745.417	748.705
10.0	600.026	636.571	671.334	695.309	715.243	730.484	736.478
12.5	548.822	594.854	637.838	665.512	690.172	711.578	721.545
15.0	493.954	551.083	598.759	630.200	661.813	687.055	697.022
17.5	438.640	503.749	556.357	589.306	625.919	655.374	667.498
20.0	381.819	455.046	513.099	546.801	587.251	622.357	638.591
22.5	327.875	406.616	469.157	504.503	550.295	589.580	609.410
25.0	275.028	359.831	424.734	460.697	512.414	558.618	580.743
27.5	225.057	313.970	379.113	417.610	471.040	525.292	551.665
30.0	180.635	263.828	323.834	367.537	427.885	491.145	523.237

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32.5	142.617	211.288	264.444	308.045	381.545	452.271	489.707
35.0	106.963	164.503	209.747	249.374	330.341	407.507	452.854
37.5	76.686	125.115	165.256	198.376	275.473	360.653	408.705
40.0	54.252	96.345	131.554	157.893	224.646	316.059	364.078
42.5	38.120	70.761	91.242	122.033	181.251	276.432	320.101
45.0	27.297	46.066	60.965	84.803	146.590	240.778	282.563
47.5	19.043	30.277	42.196	58.054	119.978	209.781	252.114
50.0	12.159	20.893	29.455	41.306	96.928	185.669	229.235
52.5	7.124	13.563	18.769	28.907	78.022	168.031	212.727
55.0	3.699	8.220	12.090	19.180	63.123	153.509	197.040
57.5	1.952	4.247	6.371	11.953	49.937	138.713	180.669
60.0	1.062	1.747	2.432	6.302	38.326	123.917	164.743
62.5	0.308	0.856	1.233	3.768	29.284	109.395	150.940
65.0	0.000	0.240	0.651	2.535	22.605	94.393	136.075
67.5	0.000	0.000	0.103	1.576	16.748	78.022	115.662
70.0	0.000	0.000	0.000	0.891	11.988	62.712	98.092
72.5	0.000	0.000	0.000	0.343	8.323	47.950	78.124
75.0	0.000	0.000	0.000	0.000	5.412	34.867	59.629
77.5	0.000	0.000	0.000	0.000	3.562	24.557	44.046
80.0	0.000	0.000	0.000	0.000	1.884	16.509	30.654
82.5	0.000	0.000	0.000	0.000	0.754	9.933	20.756
85.0	0.000	0.000	0.000	0.000	0.000	4.316	10.583
87.5	0.000	0.000	0.000	0.000	0.000	0.754	2.569
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	227.45	N.A.	32.40
0-30	409.58	N.A.	58.30
0-40	549.71	N.A.	78.30
0-60	667.65	N.A.	95.10
0-80	700.64	N.A.	99.80
0-90	702.32	N.A.	100.00
10-90	635.85	N.A.	90.50
20-40	322.26	N.A.	45.90
20-50	399.10	N.A.	56.80
40-70	141.21	N.A.	20.10
60-80	32.99	N.A.	4.70
70-80	9.71	N.A.	1.40
80-90	1.68	N.A.	0.20
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	702.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.47
10-20	160.98
20-30	182.13
30-40	140.13
40-50	76.84
50-60	41.10
60-70	23.28
70-80	9.71
80-90	1.68
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

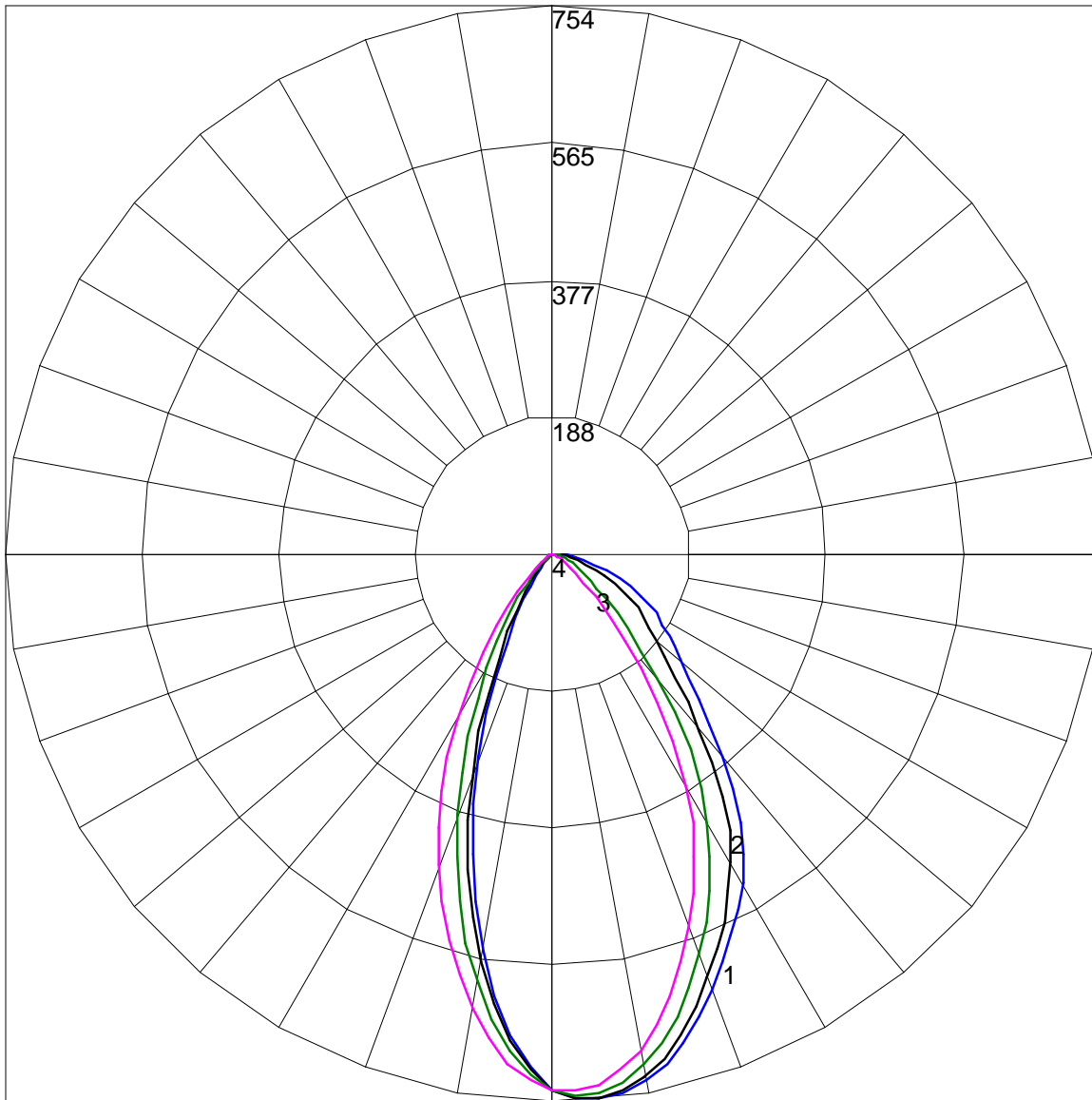
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	81	78	83	80	77	75
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44

POLAR GRAPH



Maximum Candela = 753.569 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)