

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW8LEDOS-10L35KEX-AR8923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-015_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-001_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW8LEDOS-10L-35K-EX-AR8923OS-SG-SK
[LUMINAIRE] 8" 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	654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	18217	10775	4555
55	14878	6266	1723
65	15112	4287	240
75	13783	2291	0
85	6999	686	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	472.102	472.102	472.102	472.102	472.102	472.102	472.102	472.102	472.102	472.102
2.5	494.262	494.022	489.570	482.309	472.582	462.683	452.614	446.141	441.757	446.141
5.0	509.263	507.996	501.043	487.857	470.047	448.983	428.776	413.911	407.301	413.911
7.5	515.668	515.497	508.167	491.145	464.978	433.194	401.513	377.880	368.016	377.880
10.0	518.374	516.353	508.784	489.741	457.135	413.672	370.277	339.760	326.060	339.760
12.5	515.942	513.134	504.126	486.282	446.072	392.574	338.424	298.934	282.460	298.934
15.0	520.018	513.373	497.413	477.959	432.715	368.907	303.661	257.115	238.380	257.115
17.5	522.176	512.894	487.206	465.149	416.343	342.877	267.321	215.844	196.184	215.844
20.0	523.648	510.085	477.925	448.230	397.745	314.552	230.982	176.867	157.858	176.867
22.5	522.484	506.489	467.376	428.022	375.928	285.405	195.979	141.829	123.540	141.829
25.0	519.470	500.530	452.682	405.280	351.508	255.779	163.133	111.484	95.284	111.484
27.5	514.709	490.152	432.989	377.401	320.683	224.269	132.616	85.762	72.268	85.762
30.0	504.537	474.500	408.055	340.514	282.871	189.608	105.901	65.178	55.177	65.178
32.5	491.282	454.155	381.819	300.921	246.463	156.043	81.926	49.800	43.977	49.800
35.0	475.150	432.372	349.624	266.054	214.268	127.787	61.239	39.114	33.839	39.114
37.5	454.840	408.500	314.586	234.065	190.567	104.154	45.279	29.421	24.318	29.421
40.0	427.303	385.655	280.884	210.398	161.249	85.522	33.839	21.098	16.029	21.098
42.5	397.608	359.248	246.806	172.928	123.711	65.726	26.373	13.974	9.316	13.974
45.0	361.646	322.293	213.891	130.561	90.420	47.197	20.139	8.015	4.521	8.015
47.5	323.971	282.117	178.922	98.229	71.000	33.805	14.385	3.562	1.028	3.562
50.0	290.851	246.052	143.576	79.563	51.923	25.242	9.350	0.719	0.445	0.719
52.5	262.252	217.316	117.306	59.355	36.100	17.879	5.035	0.240	0.103	0.240
55.0	239.579	196.150	100.901	43.635	27.743	12.536	1.678	0.000	0.000	0.000
57.5	224.372	180.909	88.399	34.079	19.454	8.700	0.034	0.000	0.000	0.000
60.0	209.987	168.133	77.439	25.140	13.597	5.240	0.000	0.000	0.000	0.000
62.5	195.602	154.639	64.287	17.468	8.117	2.226	0.000	0.000	0.000	0.000
65.0	179.299	139.569	50.861	10.241	2.843	0.034	0.000	0.000	0.000	0.000
67.5	163.544	123.917	38.737	5.309	0.000	0.000	0.000	0.000	0.000	0.000
70.0	146.385	106.792	30.448	3.768	0.000	0.000	0.000	0.000	0.000	0.000
72.5	121.896	87.783	22.948	2.500	0.000	0.000	0.000	0.000	0.000	0.000
75.0	100.147	69.562	16.646	1.541	0.000	0.000	0.000	0.000	0.000	0.000
77.5	79.803	51.101	11.577	0.822	0.000	0.000	0.000	0.000	0.000	0.000
80.0	54.732	34.832	7.398	0.308	0.000	0.000	0.000	0.000	0.000	0.000
82.5	36.613	21.201	4.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	17.125	9.453	1.678	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	3.631	1.781	0.274	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	472.102	472.102	472.102	472.102	472.102	472.102	472.102
2.5	452.614	462.683	472.582	482.309	489.570	494.022	494.262
5.0	428.776	448.983	470.047	487.857	501.043	507.996	509.263
7.5	401.513	433.194	464.978	491.145	508.167	515.497	515.668
10.0	370.277	413.672	457.135	489.741	508.784	516.353	518.374
12.5	338.424	392.574	446.072	486.282	504.126	513.134	515.942
15.0	303.661	368.907	432.715	477.959	497.413	513.373	520.018
17.5	267.321	342.877	416.343	465.149	487.206	512.894	522.176
20.0	230.982	314.552	397.745	448.230	477.925	510.085	523.648
22.5	195.979	285.405	375.928	428.022	467.376	506.489	522.484
25.0	163.133	255.779	351.508	405.280	452.682	500.530	519.470
27.5	132.616	224.269	320.683	377.401	432.989	490.152	514.709
30.0	105.901	189.608	282.871	340.514	408.055	474.500	504.537

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32.5	81.926	156.043	246.463	300.921	381.819	454.155	491.282
35.0	61.239	127.787	214.268	266.054	349.624	432.372	475.150
37.5	45.279	104.154	190.567	234.065	314.586	408.500	454.840
40.0	33.839	85.522	161.249	210.398	280.884	385.655	427.303
42.5	26.373	65.726	123.711	172.928	246.806	359.248	397.608
45.0	20.139	47.197	90.420	130.561	213.891	322.293	361.646
47.5	14.385	33.805	71.000	98.229	178.922	282.117	323.971
50.0	9.350	25.242	51.923	79.563	143.576	246.052	290.851
52.5	5.035	17.879	36.100	59.355	117.306	217.316	262.252
55.0	1.678	12.536	27.743	43.635	100.901	196.150	239.579
57.5	0.034	8.700	19.454	34.079	88.399	180.909	224.372
60.0	0.000	5.240	13.597	25.140	77.439	168.133	209.987
62.5	0.000	2.226	8.117	17.468	64.287	154.639	195.602
65.0	0.000	0.034	2.843	10.241	50.861	139.569	179.299
67.5	0.000	0.000	0.000	5.309	38.737	123.917	163.544
70.0	0.000	0.000	0.000	3.768	30.448	106.792	146.385
72.5	0.000	0.000	0.000	2.500	22.948	87.783	121.896
75.0	0.000	0.000	0.000	1.541	16.646	69.562	100.147
77.5	0.000	0.000	0.000	0.822	11.577	51.101	79.803
80.0	0.000	0.000	0.000	0.308	7.398	34.832	54.732
82.5	0.000	0.000	0.000	0.000	4.076	21.201	36.613
85.0	0.000	0.000	0.000	0.000	1.678	9.453	17.125
87.5	0.000	0.000	0.000	0.000	0.274	1.781	3.631
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	156.56	N.A.	23.90
0-30	302.13	N.A.	46.20
0-40	438.87	N.A.	67.10
0-60	595.69	N.A.	91.00
0-80	650.87	N.A.	99.50
0-90	654.34	N.A.	100.00
10-90	610.78	N.A.	93.30
20-40	282.30	N.A.	43.10
20-50	381.16	N.A.	58.30
40-70	193.64	N.A.	29.60
60-80	55.18	N.A.	8.40
70-80	18.36	N.A.	2.80
80-90	3.47	N.A.	0.50
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	654.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.56
10-20	113.00
20-30	145.57
30-40	136.73
40-50	98.85
50-60	57.97
60-70	36.82
70-80	18.36
80-90	3.47
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

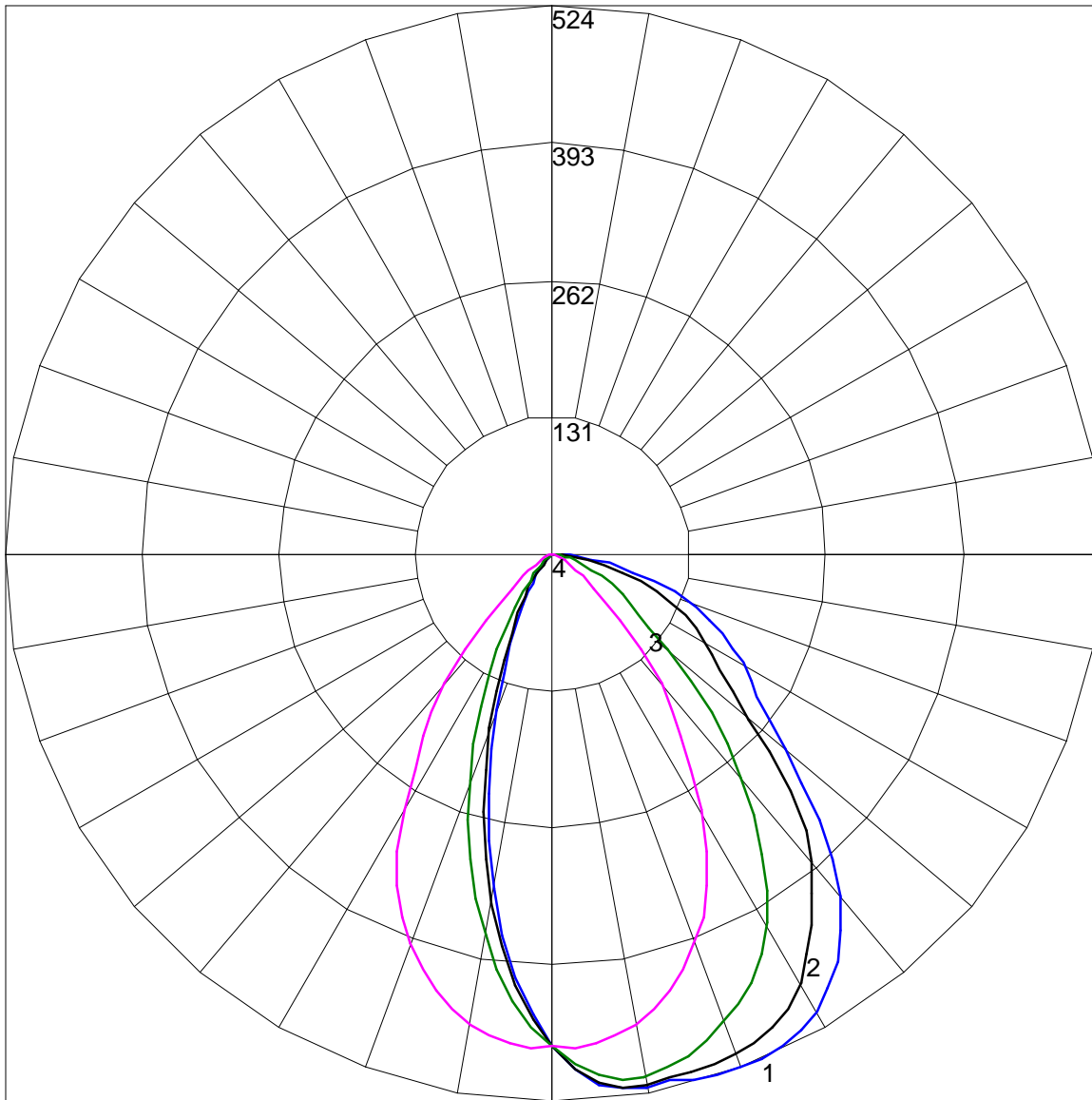
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

POLAR GRAPH



Maximum Candela = 523.648 Located At Horizontal Angle = 0, Vertical Angle = 20
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 (90 - 270)