

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW8LEDOS-20L35KEX-AR8923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-015_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-001_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW8LEDOS-20L-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	1390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	20.24
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	38696	22886	9675
55	31602	13310	3659
65	32099	9105	509
75	29275	4866	0
85	14866	1457	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	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786
2.5	1049.855	1049.346	1039.889	1024.466	1003.805	982.780	961.391	947.642	938.330	947.642
5.0	1081.720	1079.028	1064.260	1036.251	998.421	953.680	910.757	879.184	865.143	879.184
7.5	1095.324	1094.960	1079.392	1043.235	987.654	920.142	852.848	802.651	781.699	802.651
10.0	1101.071	1096.779	1080.701	1040.252	970.994	878.675	786.500	721.680	692.580	721.680
12.5	1095.906	1089.941	1070.807	1032.905	947.496	833.861	718.843	634.962	599.969	634.962
15.0	1104.563	1090.450	1056.548	1015.226	919.124	783.590	645.002	546.134	506.340	546.134
17.5	1109.147	1089.431	1034.869	988.018	884.349	728.300	567.814	458.471	416.712	458.471
20.0	1112.275	1083.466	1015.154	952.079	844.846	668.136	490.626	375.681	335.305	375.681
22.5	1109.801	1075.827	992.747	909.157	798.504	606.226	416.276	301.258	262.409	301.258
25.0	1103.399	1063.169	961.537	860.851	746.633	543.297	346.508	236.801	202.391	236.801
27.5	1093.287	1041.125	919.706	801.632	681.158	476.367	281.688	182.166	153.503	182.166
30.0	1071.680	1007.879	866.744	723.281	600.842	402.744	224.943	138.443	117.200	138.443
32.5	1043.526	964.665	811.017	639.182	523.509	331.449	174.018	105.779	93.411	105.779
35.0	1009.261	918.396	742.632	565.122	455.124	271.430	130.077	83.081	71.877	83.081
37.5	966.120	867.689	668.209	497.174	404.781	221.233	96.176	62.492	51.653	62.492
40.0	907.629	819.165	596.623	446.903	342.507	181.657	71.877	44.814	34.047	44.814
42.5	844.555	763.075	524.237	367.315	262.773	139.607	56.018	29.682	19.788	29.682
45.0	768.167	684.578	454.324	277.323	192.060	100.250	42.777	17.024	9.603	17.024
47.5	688.142	599.242	380.046	208.647	150.811	71.804	30.555	7.566	2.183	7.566
50.0	617.793	522.636	304.968	168.998	110.289	53.617	19.861	1.528	0.946	1.528
52.5	557.047	461.599	249.169	126.076	76.679	37.976	10.694	0.509	0.218	0.509
55.0	508.886	416.639	214.322	92.684	58.928	26.627	3.565	0.000	0.000	0.000
57.5	476.585	384.266	187.768	72.386	41.322	18.479	0.073	0.000	0.000	0.000
60.0	446.030	357.130	164.488	53.399	28.882	11.131	0.000	0.000	0.000	0.000
62.5	415.475	328.466	136.552	37.103	17.242	4.729	0.000	0.000	0.000	0.000
65.0	380.846	296.456	108.034	21.752	6.038	0.073	0.000	0.000	0.000	0.000
67.5	347.381	263.210	82.280	11.276	0.000	0.000	0.000	0.000	0.000	0.000
70.0	310.934	226.835	64.675	8.003	0.000	0.000	0.000	0.000	0.000	0.000
72.5	258.917	186.458	48.743	5.311	0.000	0.000	0.000	0.000	0.000	0.000
75.0	212.721	147.755	35.357	3.274	0.000	0.000	0.000	0.000	0.000	0.000
77.5	169.508	108.543	24.590	1.746	0.000	0.000	0.000	0.000	0.000	0.000
80.0	116.255	73.987	15.714	0.655	0.000	0.000	0.000	0.000	0.000	0.000
82.5	77.770	45.032	8.657	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	36.375	20.079	3.565	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	7.712	3.783	0.582	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	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786	1002.786
2.5	961.391	982.780	1003.805	1024.466	1039.889	1049.346	1049.855
5.0	910.757	953.680	998.421	1036.251	1064.260	1079.028	1081.720
7.5	852.848	920.142	987.654	1043.235	1079.392	1094.960	1095.324
10.0	786.500	878.675	970.994	1040.252	1080.701	1096.779	1101.071
12.5	718.843	833.861	947.496	1032.905	1070.807	1089.941	1095.906
15.0	645.002	783.590	919.124	1015.226	1056.548	1090.450	1104.563
17.5	567.814	728.300	884.349	988.018	1034.869	1089.431	1109.147
20.0	490.626	668.136	844.846	952.079	1015.154	1083.466	1112.275
22.5	416.276	606.226	798.504	909.157	992.747	1075.827	1109.801
25.0	346.508	543.297	746.633	860.851	961.537	1063.169	1103.399
27.5	281.688	476.367	681.158	801.632	919.706	1041.125	1093.287
30.0	224.943	402.744	600.842	723.281	866.744	1007.879	1071.680

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CANDELA TABULATION - (Cont.)

32.5	174.018	331.449	523.509	639.182	811.017	964.665	1043.526
35.0	130.077	271.430	455.124	565.122	742.632	918.396	1009.261
37.5	96.176	221.233	404.781	497.174	668.209	867.689	966.120
40.0	71.877	181.657	342.507	446.903	596.623	819.165	907.629
42.5	56.018	139.607	262.773	367.315	524.237	763.075	844.555
45.0	42.777	100.250	192.060	277.323	454.324	684.578	768.167
47.5	30.555	71.804	150.811	208.647	380.046	599.242	688.142
50.0	19.861	53.617	110.289	168.998	304.968	522.636	617.793
52.5	10.694	37.976	76.679	126.076	249.169	461.599	557.047
55.0	3.565	26.627	58.928	92.684	214.322	416.639	508.886
57.5	0.073	18.479	41.322	72.386	187.768	384.266	476.585
60.0	0.000	11.131	28.882	53.399	164.488	357.130	446.030
62.5	0.000	4.729	17.242	37.103	136.552	328.466	415.475
65.0	0.000	0.073	6.038	21.752	108.034	296.456	380.846
67.5	0.000	0.000	0.000	11.276	82.280	263.210	347.381
70.0	0.000	0.000	0.000	8.003	64.675	226.835	310.934
72.5	0.000	0.000	0.000	5.311	48.743	186.458	258.917
75.0	0.000	0.000	0.000	3.274	35.357	147.755	212.721
77.5	0.000	0.000	0.000	1.746	24.590	108.543	169.508
80.0	0.000	0.000	0.000	0.655	15.714	73.987	116.255
82.5	0.000	0.000	0.000	0.000	8.657	45.032	77.770
85.0	0.000	0.000	0.000	0.000	3.565	20.079	36.375
87.5	0.000	0.000	0.000	0.000	0.582	3.783	7.712
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	332.56	N.A.	23.90
0-30	641.76	N.A.	46.20
0-40	932.19	N.A.	67.10
0-60	1265.29	N.A.	91.00
0-80	1382.51	N.A.	99.50
0-90	1389.87	N.A.	100.00
10-90	1297.35	N.A.	93.30
20-40	599.64	N.A.	43.10
20-50	809.61	N.A.	58.30
40-70	411.31	N.A.	29.60
60-80	117.22	N.A.	8.40
70-80	39.00	N.A.	2.80
80-90	7.37	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	1389.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.53
10-20	240.03
20-30	309.20
30-40	290.43
40-50	209.97
50-60	123.12
60-70	78.22
70-80	39.00
80-90	7.37
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

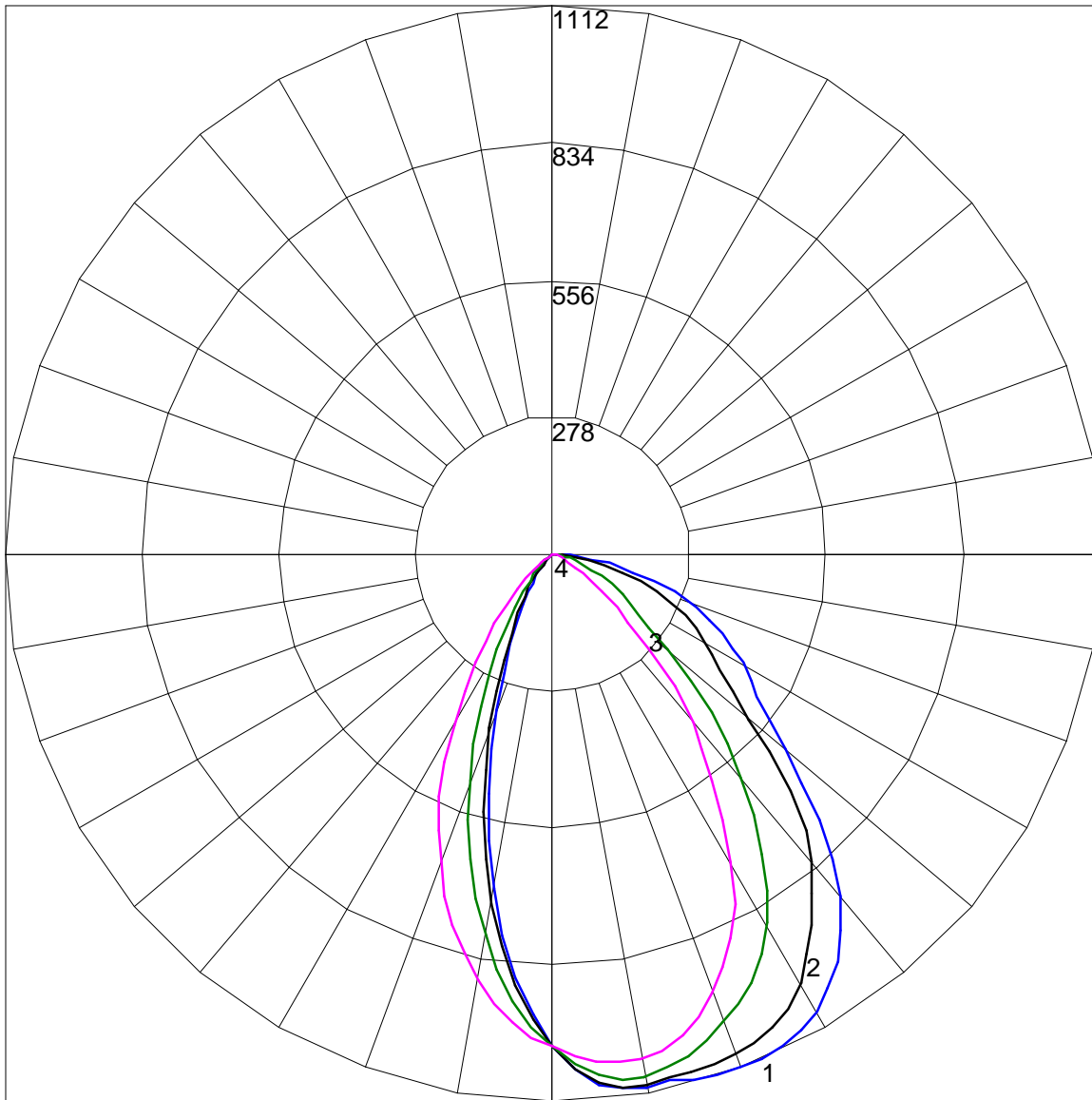
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	100	101	99	97	97	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	75	84	78	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 = 1112.275 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 (67.5 - 247.5)