

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW5LEDOS-20L35KEX-AR5923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-013_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-002_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW5LEDOS-20L-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	1468
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	20.24
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	49337	31936	20468
55	38602	17071	7886
65	38161	9193	481
75	42785	4800	0
85	14966	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	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562
2.5	1346.748	1343.911	1340.637	1335.035	1327.469	1321.286	1312.774	1308.845	1305.790	1308.845
5.0	1349.367	1345.948	1335.836	1324.850	1310.519	1294.877	1278.436	1267.014	1260.467	1267.014
7.5	1347.839	1340.564	1324.850	1302.371	1284.401	1261.558	1235.004	1212.743	1202.849	1212.743
10.0	1331.325	1324.268	1303.535	1271.597	1244.753	1216.089	1176.804	1152.360	1137.519	1152.360
12.5	1308.773	1299.170	1271.161	1229.984	1199.939	1164.364	1120.787	1080.701	1062.950	1080.701
15.0	1277.345	1264.322	1227.147	1181.751	1145.085	1102.599	1050.146	1004.387	982.853	1004.387
17.5	1237.405	1218.417	1174.694	1121.514	1083.029	1033.559	973.250	917.232	891.260	917.232
20.0	1186.262	1165.091	1112.566	1050.801	1008.461	957.827	887.186	823.676	792.102	823.676
22.5	1125.879	1101.799	1045.054	977.033	930.109	876.274	800.177	729.246	693.744	729.246
25.0	1067.606	1039.234	973.613	898.463	849.720	792.320	713.241	636.781	602.225	636.781
27.5	999.949	968.666	895.116	816.110	768.677	711.204	625.796	547.953	513.688	547.953
30.0	936.002	895.480	812.981	726.554	671.774	624.850	540.460	462.181	428.425	462.181
32.5	860.924	811.599	723.863	619.830	565.704	525.983	461.890	382.738	350.364	382.738
35.0	780.098	723.499	627.687	514.852	468.292	432.790	384.920	310.934	281.615	310.934
37.5	694.617	631.907	523.946	422.241	388.340	352.619	306.496	246.404	220.069	246.404
40.0	606.662	547.517	432.281	352.983	333.268	292.310	240.875	189.223	168.416	189.223
42.5	523.436	472.148	353.274	289.982	249.751	240.075	185.731	143.099	125.276	143.099
45.0	449.450	401.653	290.927	218.323	186.458	174.746	141.062	105.197	91.083	105.197
47.5	388.631	339.888	238.256	165.652	144.191	126.440	105.415	76.169	65.039	76.169
50.0	342.434	289.836	190.314	131.168	112.108	94.284	73.478	53.835	43.214	53.835
52.5	309.188	253.388	152.266	100.686	79.952	67.076	49.252	35.502	25.244	35.502
55.0	285.253	226.689	126.149	74.423	58.273	44.960	32.665	19.715	11.349	19.715
57.5	265.247	205.810	104.324	54.999	40.595	30.773	20.152	8.003	3.201	8.003
60.0	243.640	185.367	84.099	36.957	24.371	18.042	9.676	0.873	0.000	0.873
62.5	224.361	165.506	65.184	20.879	11.204	8.075	2.837	0.000	0.000	0.000
65.0	207.774	148.919	50.052	9.530	2.619	1.601	0.000	0.000	0.000	0.000
67.5	193.515	136.334	39.576	3.929	0.000	0.000	0.000	0.000	0.000	0.000
70.0	181.293	124.257	31.210	1.673	0.000	0.000	0.000	0.000	0.000	0.000
72.5	164.561	108.543	22.989	0.073	0.000	0.000	0.000	0.000	0.000	0.000
75.0	142.663	89.846	16.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	116.618	69.986	10.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	90.137	47.651	5.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	50.489	24.153	1.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	16.805	5.747	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	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562	1332.562
2.5	1312.774	1321.286	1327.469	1335.035	1340.637	1343.911	1346.748
5.0	1278.436	1294.877	1310.519	1324.850	1335.836	1345.948	1349.367
7.5	1235.004	1261.558	1284.401	1302.371	1324.850	1340.564	1347.839
10.0	1176.804	1216.089	1244.753	1271.597	1303.535	1324.268	1331.325
12.5	1120.787	1164.364	1199.939	1229.984	1271.161	1299.170	1308.773
15.0	1050.146	1102.599	1145.085	1181.751	1227.147	1264.322	1277.345
17.5	973.250	1033.559	1083.029	1121.514	1174.694	1218.417	1237.405
20.0	887.186	957.827	1008.461	1050.801	1112.566	1165.091	1186.262
22.5	800.177	876.274	930.109	977.033	1045.054	1101.799	1125.879
25.0	713.241	792.320	849.720	898.463	973.613	1039.234	1067.606
27.5	625.796	711.204	768.677	816.110	895.116	968.666	999.949
30.0	540.460	624.850	671.774	726.554	812.981	895.480	936.002

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CANDELA TABULATION - (Cont.)

32.5	461.890	525.983	565.704	619.830	723.863	811.599	860.924
35.0	384.920	432.790	468.292	514.852	627.687	723.499	780.098
37.5	306.496	352.619	388.340	422.241	523.946	631.907	694.617
40.0	240.875	292.310	333.268	352.983	432.281	547.517	606.662
42.5	185.731	240.075	249.751	289.982	353.274	472.148	523.436
45.0	141.062	174.746	186.458	218.323	290.927	401.653	449.450
47.5	105.415	126.440	144.191	165.652	238.256	339.888	388.631
50.0	73.478	94.284	112.108	131.168	190.314	289.836	342.434
52.5	49.252	67.076	79.952	100.686	152.266	253.388	309.188
55.0	32.665	44.960	58.273	74.423	126.149	226.689	285.253
57.5	20.152	30.773	40.595	54.999	104.324	205.810	265.247
60.0	9.676	18.042	24.371	36.957	84.099	185.367	243.640
62.5	2.837	8.075	11.204	20.879	65.184	165.506	224.361
65.0	0.000	1.601	2.619	9.530	50.052	148.919	207.774
67.5	0.000	0.000	0.000	3.929	39.576	136.334	193.515
70.0	0.000	0.000	0.000	1.673	31.210	124.257	181.293
72.5	0.000	0.000	0.000	0.073	22.989	108.543	164.561
75.0	0.000	0.000	0.000	0.000	16.005	89.846	142.663
77.5	0.000	0.000	0.000	0.000	10.040	69.986	116.618
80.0	0.000	0.000	0.000	0.000	5.311	47.651	90.137
82.5	0.000	0.000	0.000	0.000	1.091	24.153	50.489
85.0	0.000	0.000	0.000	0.000	0.000	5.747	16.805
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	439.94	N.A.	30.00
0-30	824.74	N.A.	56.20
0-40	1137.03	N.A.	77.50
0-60	1399.27	N.A.	95.30
0-80	1463.91	N.A.	99.70
0-90	1467.77	N.A.	100.00
10-90	1345.04	N.A.	91.60
20-40	697.09	N.A.	47.50
20-50	874.64	N.A.	59.60
40-70	303.73	N.A.	20.70
60-80	64.64	N.A.	4.40
70-80	23.15	N.A.	1.60
80-90	3.86	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	1467.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.73
10-20	317.22
20-30	384.80
30-40	312.29
40-50	177.55
50-60	84.68
60-70	41.50
70-80	23.15
80-90	3.86
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

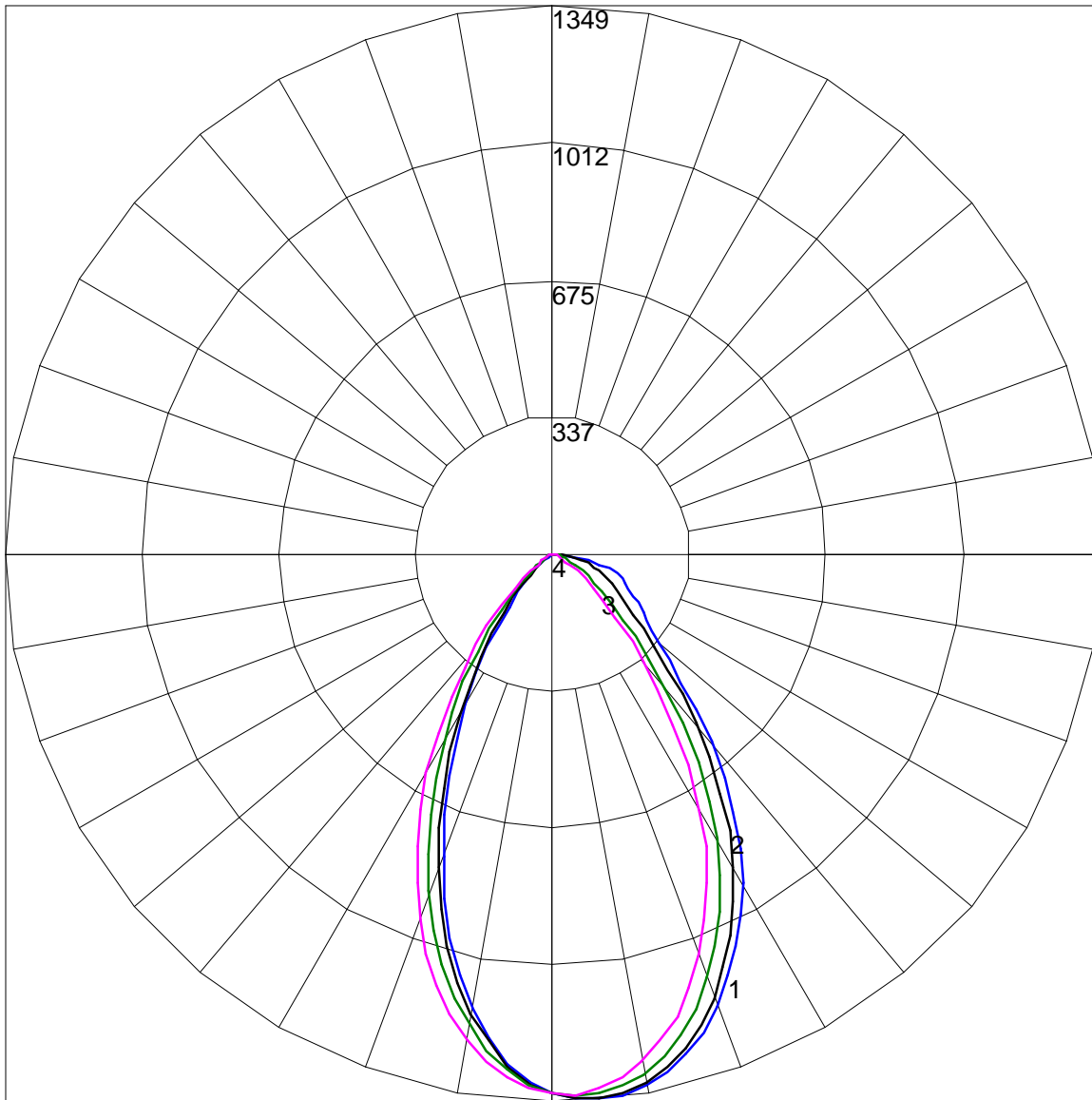
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	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	71	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	66	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 = 1349.367 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)