

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4LEDOS-20L35KEX-AR4923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-012_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-005_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4LEDOS-20L-35K-EX-AR4923OS-SG-SK
[LUMINAIRE] 4" 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	1365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	20.24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	66581	42300	27799
55	49102	20923	11099
65	43179	11103	3030
75	46156	5478	0
85	20150	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	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203
2.5	1281.855	1282.219	1284.401	1284.983	1285.856	1285.711	1283.819	1278.654	1277.272	1278.654
5.0	1265.123	1265.850	1268.469	1268.687	1270.215	1268.178	1263.304	1257.411	1252.610	1257.411
7.5	1244.825	1244.680	1243.370	1245.917	1246.790	1239.951	1229.621	1217.617	1212.961	1217.617
10.0	1219.508	1214.343	1211.942	1208.523	1209.614	1201.612	1184.952	1169.093	1158.689	1169.093
12.5	1184.807	1181.024	1174.403	1165.091	1165.310	1154.615	1129.808	1109.219	1092.560	1109.219
15.0	1149.014	1140.575	1126.461	1113.366	1111.984	1094.524	1064.260	1038.143	1016.536	1038.143
17.5	1102.526	1091.978	1074.809	1054.366	1048.910	1025.702	989.109	956.226	930.473	956.226
20.0	1051.529	1037.997	1014.935	990.055	978.706	950.115	906.465	867.908	837.353	867.908
22.5	998.639	980.379	950.624	917.960	903.555	871.109	821.711	778.716	742.923	778.716
25.0	936.584	913.958	875.401	838.007	815.819	784.100	736.376	687.124	653.877	687.124
27.5	872.418	843.391	792.466	748.452	728.591	694.617	646.893	597.932	566.286	597.932
30.0	800.323	766.858	709.531	658.460	627.905	604.116	560.466	514.197	483.569	514.197
32.5	731.938	688.579	626.014	558.720	526.055	509.687	480.805	436.355	407.109	436.355
35.0	656.569	607.390	541.551	459.926	431.480	417.221	405.145	362.295	335.814	362.295
37.5	580.036	527.656	447.631	373.717	352.547	335.814	323.010	292.892	269.684	292.892
40.0	505.176	452.942	364.332	305.405	296.384	270.557	250.624	227.853	210.684	227.853
42.5	436.136	388.703	293.983	246.841	217.013	217.304	190.532	174.382	160.559	174.382
45.0	374.444	330.576	237.893	179.911	156.340	154.230	143.318	130.877	119.747	130.877
47.5	320.246	277.905	193.661	131.387	117.128	110.726	109.780	96.685	90.938	96.685
50.0	278.342	233.891	152.630	101.705	92.320	83.808	80.316	72.750	69.258	72.750
52.5	247.568	200.790	118.510	77.552	65.912	64.457	57.691	55.072	50.489	55.072
55.0	223.997	175.546	95.448	56.818	50.634	46.560	42.923	40.449	34.484	40.449
57.5	203.991	155.540	78.134	44.232	39.576	36.230	32.083	27.427	20.879	27.427
60.0	182.894	136.334	63.293	32.956	28.736	26.990	22.189	16.005	10.767	16.005
62.5	163.542	118.364	49.325	22.189	18.551	17.678	13.313	6.984	5.165	6.984
65.0	145.136	102.505	37.321	13.241	10.185	9.967	6.329	3.128	2.692	3.128
67.5	129.059	88.028	26.627	5.966	3.565	2.837	1.746	1.091	0.800	1.091
70.0	118.510	78.425	21.389	3.929	2.037	0.946	0.073	0.000	0.000	0.000
72.5	106.797	68.749	16.369	2.255	0.582	0.000	0.000	0.000	0.000	0.000
75.0	95.012	57.836	11.276	0.655	0.000	0.000	0.000	0.000	0.000	0.000
77.5	79.079	44.814	6.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	59.073	30.919	3.274	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	40.304	17.387	0.364	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	13.968	3.128	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	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203	1289.203
2.5	1283.819	1285.711	1285.856	1284.983	1284.401	1282.219	1281.855
5.0	1263.304	1268.178	1270.215	1268.687	1268.469	1265.850	1265.123
7.5	1229.621	1239.951	1246.790	1245.917	1243.370	1244.680	1244.825
10.0	1184.952	1201.612	1209.614	1208.523	1211.942	1214.343	1219.508
12.5	1129.808	1154.615	1165.310	1165.091	1174.403	1181.024	1184.807
15.0	1064.260	1094.524	1111.984	1113.366	1126.461	1140.575	1149.014
17.5	989.109	1025.702	1048.910	1054.366	1074.809	1091.978	1102.526
20.0	906.465	950.115	978.706	990.055	1014.935	1037.997	1051.529
22.5	821.711	871.109	903.555	917.960	950.624	980.379	998.639
25.0	736.376	784.100	815.819	838.007	875.401	913.958	936.584
27.5	646.893	694.617	728.591	748.452	792.466	843.391	872.418
30.0	560.466	604.116	627.905	658.460	709.531	766.858	800.323

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PHOTOMETRIC FILENAME : SGW4LEDOS-20L35KEX-AR4923OSSGSK.IES

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32.5	480.805	509.687	526.055	558.720	626.014	688.579	731.938
35.0	405.145	417.221	431.480	459.926	541.551	607.390	656.569
37.5	323.010	335.814	352.547	373.717	447.631	527.656	580.036
40.0	250.624	270.557	296.384	305.405	364.332	452.942	505.176
42.5	190.532	217.304	217.013	246.841	293.983	388.703	436.136
45.0	143.318	154.230	156.340	179.911	237.893	330.576	374.444
47.5	109.780	110.726	117.128	131.387	193.661	277.905	320.246
50.0	80.316	83.808	92.320	101.705	152.630	233.891	278.342
52.5	57.691	64.457	65.912	77.552	118.510	200.790	247.568
55.0	42.923	46.560	50.634	56.818	95.448	175.546	223.997
57.5	32.083	36.230	39.576	44.232	78.134	155.540	203.991
60.0	22.189	26.990	28.736	32.956	63.293	136.334	182.894
62.5	13.313	17.678	18.551	22.189	49.325	118.364	163.542
65.0	6.329	9.967	10.185	13.241	37.321	102.505	145.136
67.5	1.746	2.837	3.565	5.966	26.627	88.028	129.059
70.0	0.073	0.946	2.037	3.929	21.389	78.425	118.510
72.5	0.000	0.000	0.582	2.255	16.369	68.749	106.797
75.0	0.000	0.000	0.000	0.655	11.276	57.836	95.012
77.5	0.000	0.000	0.000	0.000	6.839	44.814	79.079
80.0	0.000	0.000	0.000	0.000	3.274	30.919	59.073
82.5	0.000	0.000	0.000	0.000	0.364	17.387	40.304
85.0	0.000	0.000	0.000	0.000	0.000	3.128	13.968
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	424.27	N.A.	31.10
0-30	791.56	N.A.	58.00
0-40	1082.07	N.A.	79.30
0-60	1313.93	N.A.	96.20
0-80	1362.44	N.A.	99.80
0-90	1365.15	N.A.	100.00
10-90	1246.49	N.A.	91.30
20-40	657.80	N.A.	48.20
20-50	815.69	N.A.	59.80
40-70	265.06	N.A.	19.40
60-80	48.51	N.A.	3.60
70-80	15.31	N.A.	1.10
80-90	2.71	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	1365.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.66
10-20	305.61
20-30	367.29
30-40	290.50
40-50	157.89
50-60	73.97
60-70	33.19
70-80	15.31
80-90	2.71
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

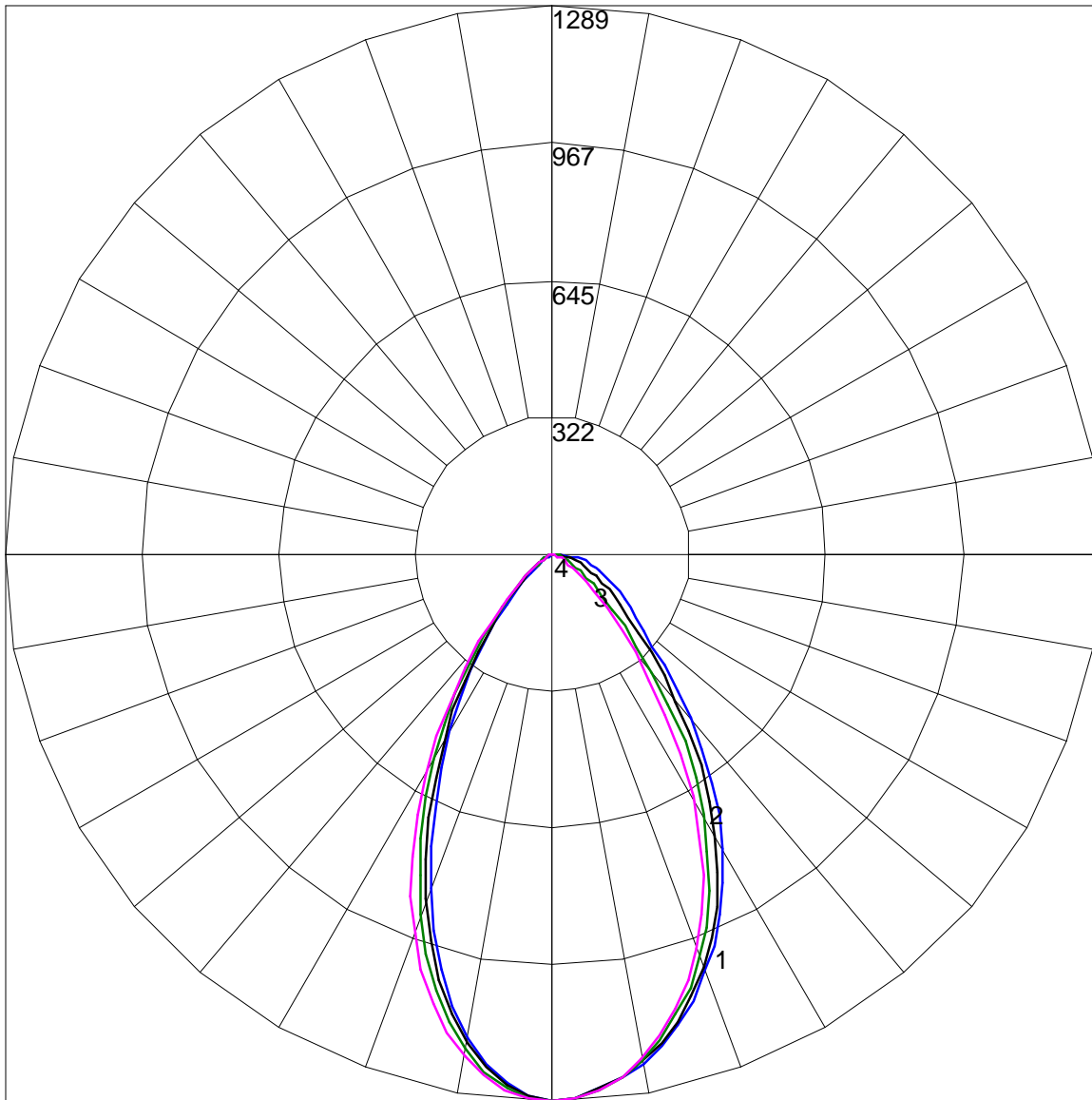
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	62	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	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 1289.203 Located At Horizontal Angle = 0, Vertical Angle = 0
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)