

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-30L35KE1-AR5224OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141006_M-30L-Gen3
[TESTLAB]OSRAM SYLVANIA
[TESTDATE]8/12/2014
[ISSUE DATE]8/12/2014
[UPDATE]1/4/2017
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE5LEDOS-30L-35K-EX-AR5224OS-MW-SO
[LUMINAIRE]5" DIAM., OPEN APERTURE LED DOWNLIGHT
[OTHER]DEEP PROFILE, MATTE WHITE LOWER CONE
[OTHER]INTEGRAL, REGRESSED SOLITE GLASS LENS
[OTHER]56.2 DEGREE BEAM ANGLE
[LAMP]N/A
[LAMPCAT]N/A
[OTHER]TOTAL LUMINAIRE WATTS IS APPROXIMATE
[OTHER]PHOTOMETRIC MEASUREMENTS TAKEN AT 120VAC
[OTHER]CCT OUTPUT MULTIPLIERS: 40K x 1.0, 30K x 1.0, 27K x 0.945
[OTHER]CATALOG NUMBER DESIGNATION UPDATE: 35W NOW CALLED 30L
[OTHER]THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM GEN2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.86
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	28662	28658	28618
55	21478	21560	21602
65	18751	18958	19181
75	16462	16657	16818
85	12510	12997	12908

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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	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884
2.5	2306.314	2303.708	2306.344	2308.443	2310.115	2308.443	2306.344	2303.708	2306.314	2303.708
5.0	2271.695	2269.109	2270.720	2268.174	2267.458	2268.174	2270.720	2269.109	2271.695	2269.109
7.5	2207.730	2205.591	2203.164	2198.219	2201.532	2198.219	2203.164	2205.591	2207.730	2205.591
10.0	2112.647	2111.334	2108.349	2108.847	2111.224	2108.847	2108.349	2111.334	2112.647	2111.334
12.5	2001.926	2000.503	2001.219	2000.175	1997.429	2000.175	2001.219	2000.503	2001.926	2000.503
15.0	1891.234	1890.418	1887.951	1887.772	1889.483	1887.772	1887.951	1890.418	1891.234	1890.418
17.5	1777.678	1778.533	1774.345	1776.315	1775.221	1776.315	1774.345	1778.533	1777.678	1778.533
20.0	1671.562	1671.145	1673.204	1672.129	1672.627	1672.129	1673.204	1671.145	1671.562	1671.145
22.5	1559.876	1562.463	1561.567	1560.344	1560.891	1560.344	1561.567	1562.463	1559.876	1562.463
25.0	1405.722	1405.434	1401.176	1400.927	1404.250	1400.927	1401.176	1405.434	1405.722	1405.434
27.5	1212.303	1215.218	1209.239	1206.931	1206.702	1206.931	1209.239	1215.218	1212.303	1215.218
30.0	1002.092	1003.524	1000.102	997.516	997.038	997.516	1000.102	1003.524	1002.092	1003.524
32.5	794.666	795.154	793.144	790.587	791.393	790.587	793.144	795.154	794.666	795.154
35.0	607.176	610.817	608.459	605.117	606.201	605.117	608.459	610.817	607.176	610.817
37.5	465.497	466.551	463.855	464.014	466.909	464.014	463.855	466.551	465.497	466.551
40.0	370.324	370.493	368.802	368.494	369.906	368.494	368.802	370.493	370.324	370.493
42.5	307.035	308.109	306.677	305.811	305.702	305.811	306.677	308.109	307.035	308.109
45.0	261.105	261.941	261.065	260.299	260.707	260.299	261.065	261.941	261.105	261.941
47.5	228.287	228.297	227.899	227.670	228.118	227.670	227.899	228.297	228.287	228.297
50.0	203.307	203.407	203.238	202.740	202.909	202.740	203.238	203.407	203.307	203.407
52.5	179.830	180.029	179.989	179.541	179.631	179.541	179.989	180.029	179.830	180.029
55.0	158.710	159.009	159.317	159.437	159.626	159.437	159.317	159.009	158.710	159.009
57.5	142.575	143.132	143.798	144.336	144.425	144.336	143.798	143.132	142.575	143.132
60.0	127.583	128.180	129.006	129.921	130.070	129.921	129.006	128.180	127.583	128.180
62.5	114.740	115.138	115.914	116.780	117.197	116.780	115.914	115.138	114.740	115.138
65.0	102.096	102.464	103.220	103.937	104.434	103.937	103.220	102.464	102.096	102.464
67.5	89.830	90.228	90.865	91.372	91.731	91.372	90.865	90.228	89.830	90.228
70.0	78.142	78.301	78.768	79.335	79.564	79.335	78.768	78.301	78.142	78.301
72.5	66.423	66.582	67.010	67.617	67.756	67.617	67.010	66.582	66.423	66.582
75.0	54.893	55.291	55.540	56.047	56.077	56.047	55.540	55.291	54.893	55.291
77.5	44.099	44.478	44.617	44.935	44.905	44.935	44.617	44.478	44.099	44.478
80.0	33.833	34.211	34.271	34.390	34.390	34.390	34.271	34.211	33.833	34.211
82.5	23.806	24.233	24.442	24.293	24.223	24.293	24.442	24.233	23.806	24.233
85.0	14.047	14.494	14.594	14.514	14.494	14.514	14.594	14.494	14.047	14.494
87.5	4.964	5.372	5.392	5.382	5.282	5.382	5.392	5.372	4.964	5.372
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884	2315.884
2.5	2306.344	2308.443	2310.115	2308.443	2306.344	2303.708	2306.314
5.0	2270.720	2268.174	2267.458	2268.174	2270.720	2269.109	2271.695
7.5	2203.164	2198.219	2201.532	2198.219	2203.164	2205.591	2207.730
10.0	2108.349	2108.847	2111.224	2108.847	2108.349	2111.334	2112.647
12.5	2001.219	2000.175	1997.429	2000.175	2001.219	2000.503	2001.926
15.0	1887.951	1887.772	1889.483	1887.772	1887.951	1890.418	1891.234
17.5	1774.345	1776.315	1775.221	1776.315	1774.345	1778.533	1777.678
20.0	1673.204	1672.129	1672.627	1672.129	1673.204	1671.145	1671.562
22.5	1561.567	1560.344	1560.891	1560.344	1561.567	1562.463	1559.876
25.0	1401.176	1400.927	1404.250	1400.927	1401.176	1405.434	1405.722
27.5	1209.239	1206.931	1206.702	1206.931	1209.239	1215.218	1212.303
30.0	1000.102	997.516	997.038	997.516	1000.102	1003.524	1002.092
32.5	793.144	790.587	791.393	790.587	793.144	795.154	794.666
35.0	608.459	605.117	606.201	605.117	608.459	610.817	607.176
37.5	463.855	464.014	466.909	464.014	463.855	466.551	465.497
40.0	368.802	368.494	369.906	368.494	368.802	370.493	370.324
42.5	306.677	305.811	305.702	305.811	306.677	308.109	307.035
45.0	261.065	260.299	260.707	260.299	261.065	261.941	261.105
47.5	227.899	227.670	228.118	227.670	227.899	228.297	228.287
50.0	203.238	202.740	202.909	202.740	203.238	203.407	203.307
52.5	179.989	179.541	179.631	179.541	179.989	180.029	179.830
55.0	159.317	159.437	159.626	159.437	159.317	159.009	158.710
57.5	143.798	144.336	144.425	144.336	143.798	143.132	142.575
60.0	129.006	129.921	130.070	129.921	129.006	128.180	127.583
62.5	115.914	116.780	117.197	116.780	115.914	115.138	114.740
65.0	103.220	103.937	104.434	103.937	103.220	102.464	102.096
67.5	90.865	91.372	91.731	91.372	90.865	90.228	89.830
70.0	78.768	79.335	79.564	79.335	78.768	78.301	78.142
72.5	67.010	67.617	67.756	67.617	67.010	66.582	66.423
75.0	55.540	56.047	56.077	56.047	55.540	55.291	54.893
77.5	44.617	44.935	44.905	44.935	44.617	44.478	44.099
80.0	34.271	34.390	34.390	34.390	34.271	34.211	33.833

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82.5	24.442	24.293	24.223	24.293	24.442	24.233	23.806
85.0	14.594	14.514	14.494	14.514	14.594	14.494	14.047
87.5	5.392	5.382	5.282	5.382	5.392	5.372	4.964
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	740.68	N.A.	32.30
0-30	1369.1	N.A.	59.70
0-40	1761.84	N.A.	76.90
0-60	2114.51	N.A.	92.20
0-80	2275.92	N.A.	99.30
0-90	2292.56	N.A.	100.00
10-90	2081.05	N.A.	90.80
20-40	1021.16	N.A.	44.50
20-50	1228.95	N.A.	53.60
40-70	455.06	N.A.	19.80
60-80	161.41	N.A.	7.00
70-80	59.02	N.A.	2.60
80-90	16.63	N.A.	0.70
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	2292.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.51
10-20	529.16
20-30	628.42
30-40	392.74
40-50	207.78
50-60	144.89
60-70	102.39
70-80	59.02
80-90	16.63
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

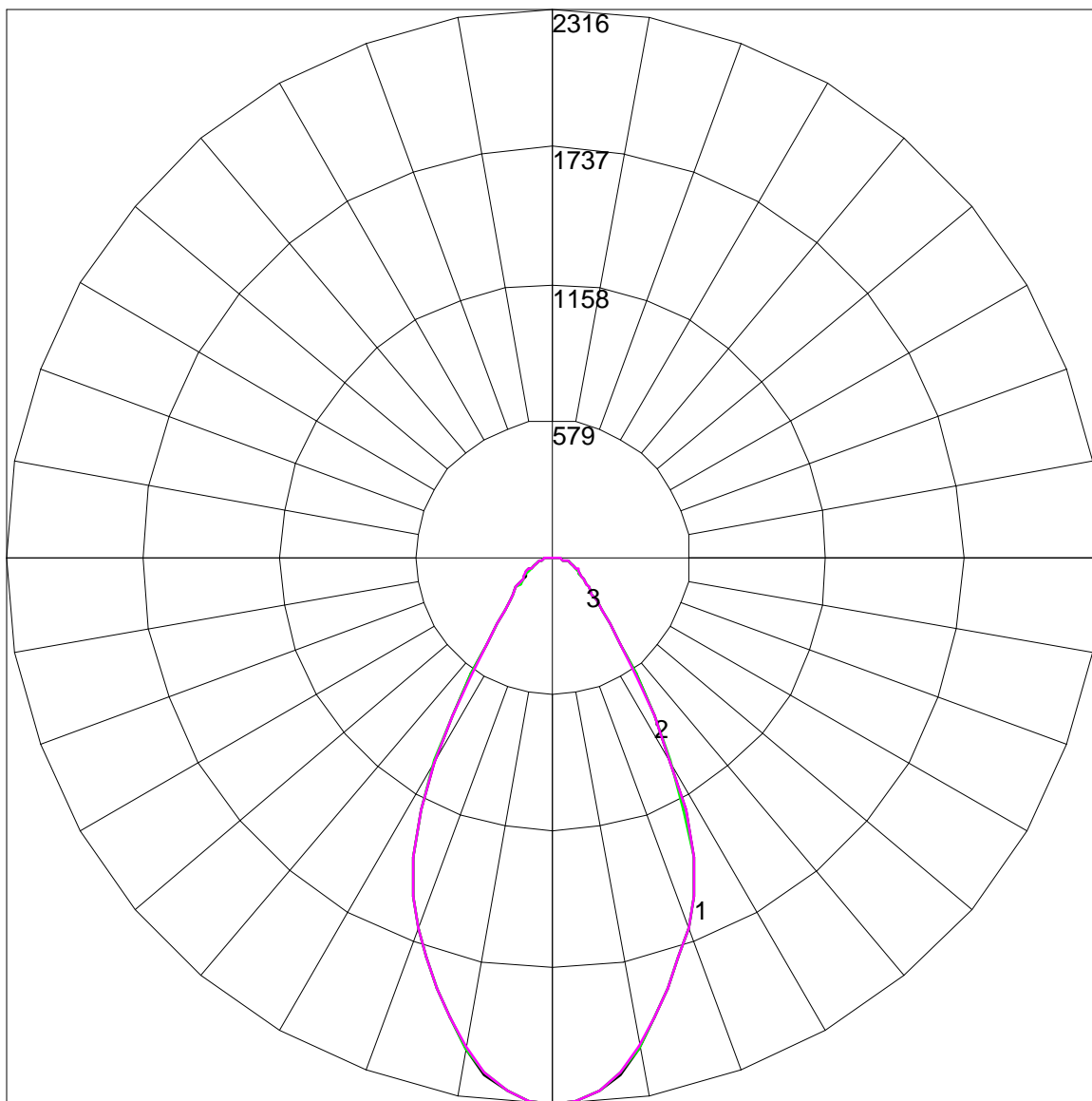
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	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	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43

POLAR GRAPH



Maximum Candela = 2315.884 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)