

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4LEDOS-30L35KE1-AR4223OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141005_M-30L-Gen3
[TESTLAB]OSRAM SYLVANIA
[TESTDATE]8/11/2014
[ISSUEDATE]8/11/2014
[UPDATE]11/14/2016
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE4LEDOS-30L-35K-E1-AR4223OS-MW-SO
[LUMINAIRE]4" Diam., Open Aperture LED Downlight
[OTHER]Shallow Profile, Matte White Lower Cone
[OTHER]Integral, Regressed Solite Lens
[OTHER]62.4 Degree Beam Angle
[LAMP]N/A
[LAMPCAT]N/A
[OTHER]Total Luminaire Watts is approximate
[OTHER]Photometric measurements taken at 120VAC
[OTHER]Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946
[OTHER]Catalog number designation update: 35W is 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	2373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.94
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	59655	59477	59300
55	41208	41332	41108
65	32677	32997	32399
75	25652	26009	26048
85	18600	19446	19589

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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	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567
2.5	1978.488	1976.896	1975.802	1976.329	1976.767	1976.329	1975.802	1976.896	1978.488	1976.896
5.0	1961.039	1957.448	1958.244	1956.463	1957.607	1956.463	1958.244	1957.448	1961.039	1957.448
7.5	1929.514	1923.237	1923.108	1920.561	1918.402	1920.561	1923.108	1923.237	1929.514	1923.237
10.0	1873.646	1871.875	1873.845	1872.313	1870.194	1872.313	1873.845	1871.875	1873.646	1871.875
12.5	1802.319	1802.607	1802.050	1801.772	1798.091	1801.772	1802.050	1802.607	1802.319	1802.607
15.0	1724.177	1722.148	1721.700	1720.576	1723.441	1720.576	1721.700	1722.148	1724.177	1722.148
17.5	1644.792	1638.694	1641.112	1638.058	1639.241	1638.058	1641.112	1638.694	1644.792	1638.694
20.0	1561.498	1558.871	1562.950	1562.980	1559.777	1562.980	1562.950	1558.871	1561.498	1558.871
22.5	1467.807	1468.096	1467.668	1468.832	1465.698	1468.832	1467.668	1468.096	1467.807	1468.096
25.0	1352.669	1350.252	1348.322	1351.446	1349.675	1351.446	1348.322	1350.252	1352.669	1350.252
27.5	1217.317	1212.611	1211.627	1208.582	1208.314	1208.582	1211.627	1212.611	1217.317	1212.611
30.0	1067.311	1065.132	1063.133	1061.064	1058.000	1061.064	1063.133	1065.132	1067.311	1065.132
32.5	911.456	910.958	908.193	909.436	906.303	909.436	908.193	910.958	911.456	910.958
35.0	758.943	757.839	761.599	760.694	755.043	760.694	761.599	757.839	758.943	757.839
37.5	618.407	618.457	622.148	618.318	615.811	618.318	622.148	618.457	618.407	618.457
40.0	495.918	498.624	498.285	496.942	496.127	496.942	498.285	498.624	495.918	498.624
42.5	403.998	403.839	401.541	401.442	402.247	401.442	403.839	403.998	403.998	403.839
45.0	335.496	335.168	334.492	333.019	333.497	333.019	334.492	335.168	335.496	335.168
47.5	284.433	284.483	285.100	283.747	283.070	283.747	285.100	284.483	284.433	284.483
50.0	245.109	245.248	245.139	244.313	243.746	244.313	245.139	245.248	245.109	245.248
52.5	214.061	214.300	213.763	213.066	212.609	213.066	213.763	214.300	214.061	214.300
55.0	187.987	188.574	188.554	187.629	187.530	187.629	188.554	188.574	187.987	188.574
57.5	165.933	166.828	166.997	166.142	165.863	166.142	166.997	166.828	165.933	166.828
60.0	146.494	147.320	147.340	146.813	145.758	146.813	147.340	147.320	146.494	147.320
62.5	127.633	128.608	128.747	127.822	126.568	127.822	128.747	128.608	127.633	128.608
65.0	109.836	110.622	110.910	109.766	108.901	109.766	110.910	110.622	109.836	110.622
67.5	92.934	94.108	95.093	94.257	92.914	94.257	95.093	94.108	92.934	94.108
70.0	77.614	77.485	77.535	77.664	78.072	77.664	77.535	77.485	77.614	77.485
72.5	64.463	64.781	65.080	65.269	65.229	65.269	65.080	64.781	64.463	64.781
75.0	52.804	53.102	53.540	53.669	53.620	53.669	53.540	53.102	52.804	53.102
77.5	41.871	42.050	42.567	42.747	42.766	42.747	42.567	42.050	41.871	42.050
80.0	31.655	31.744	32.092	32.600	32.450	32.600	32.092	31.744	31.655	31.744
82.5	21.905	22.075	22.413	22.880	22.691	22.880	22.413	22.075	21.905	22.075
85.0	12.893	12.982	13.480	13.698	13.579	13.698	13.480	12.982	12.893	12.982
87.5	4.984	4.934	5.123	5.412	5.372	5.412	5.123	4.934	4.984	4.934
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	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567	1982.567
2.5	1975.802	1976.329	1976.767	1976.329	1975.802	1976.896	1978.488
5.0	1958.244	1956.463	1957.607	1956.463	1958.244	1957.448	1961.039
7.5	1923.108	1920.561	1918.402	1920.561	1923.108	1923.237	1929.514
10.0	1873.845	1872.313	1870.194	1872.313	1873.845	1871.875	1873.646
12.5	1802.050	1801.772	1798.091	1801.772	1802.050	1802.607	1802.319
15.0	1721.700	1720.576	1723.441	1720.576	1721.700	1722.148	1724.177
17.5	1641.112	1638.058	1639.241	1638.058	1641.112	1638.694	1644.792
20.0	1562.950	1562.980	1559.777	1562.980	1562.950	1558.871	1561.498
22.5	1467.668	1468.832	1465.698	1468.832	1467.668	1468.096	1467.807
25.0	1348.322	1351.446	1349.675	1351.446	1348.322	1350.252	1352.669
27.5	1211.627	1208.582	1208.314	1208.582	1211.627	1212.611	1217.317
30.0	1063.133	1061.064	1058.000	1061.064	1063.133	1065.132	1067.311
32.5	908.193	909.436	906.303	909.436	908.193	910.958	911.456
35.0	761.599	760.694	755.043	760.694	761.599	757.839	758.943
37.5	622.148	618.318	615.811	618.318	622.148	618.457	618.407
40.0	498.285	496.942	496.127	496.942	498.285	498.624	495.918
42.5	401.541	401.442	402.247	401.442	401.541	403.839	403.998
45.0	334.492	333.019	333.497	333.019	334.492	335.168	335.496
47.5	285.100	283.747	283.070	283.747	285.100	284.483	284.433
50.0	245.139	244.313	243.746	244.313	245.139	245.248	245.109
52.5	213.763	213.066	212.609	213.066	213.763	214.300	214.061
55.0	188.554	187.629	187.530	187.629	188.554	188.574	187.987
57.5	166.997	166.142	165.863	166.142	166.997	166.828	165.933
60.0	147.340	146.813	145.758	146.813	147.340	147.320	146.494
62.5	128.747	127.822	126.568	127.822	128.747	128.608	127.633
65.0	110.910	109.766	108.901	109.766	110.910	110.622	109.836
67.5	95.093	94.257	92.914	94.257	95.093	94.108	92.934
70.0	77.535	77.664	78.072	77.664	77.535	77.485	77.614
72.5	65.080	65.269	65.229	65.269	65.080	64.781	64.463
75.0	53.540	53.669	53.620	53.669	53.540	53.102	52.804
77.5	42.567	42.747	42.766	42.747	42.567	42.050	41.871
80.0	32.092	32.600	32.450	32.600	32.092	31.744	31.655

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82.5	22.413	22.880	22.691	22.880	22.413	22.075	21.905
85.0	13.480	13.698	13.579	13.698	13.480	12.982	12.893
87.5	5.123	5.412	5.372	5.412	5.123	4.934	4.984
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	667.20	N.A.	28.10
0-30	1278.5	N.A.	53.90
0-40	1753.31	N.A.	73.90
0-60	2190.78	N.A.	92.30
0-80	2357.54	N.A.	99.30
0-90	2373.04	N.A.	100.00
10-90	2188.89	N.A.	92.20
20-40	1086.11	N.A.	45.80
20-50	1353.05	N.A.	57.00
40-70	547.37	N.A.	23.10
60-80	166.76	N.A.	7.00
70-80	56.86	N.A.	2.40
80-90	15.50	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	2373.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	184.15
10-20	483.05
20-30	611.30
30-40	474.81
40-50	266.93
50-60	170.54
60-70	109.89
70-80	56.86
80-90	15.50
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

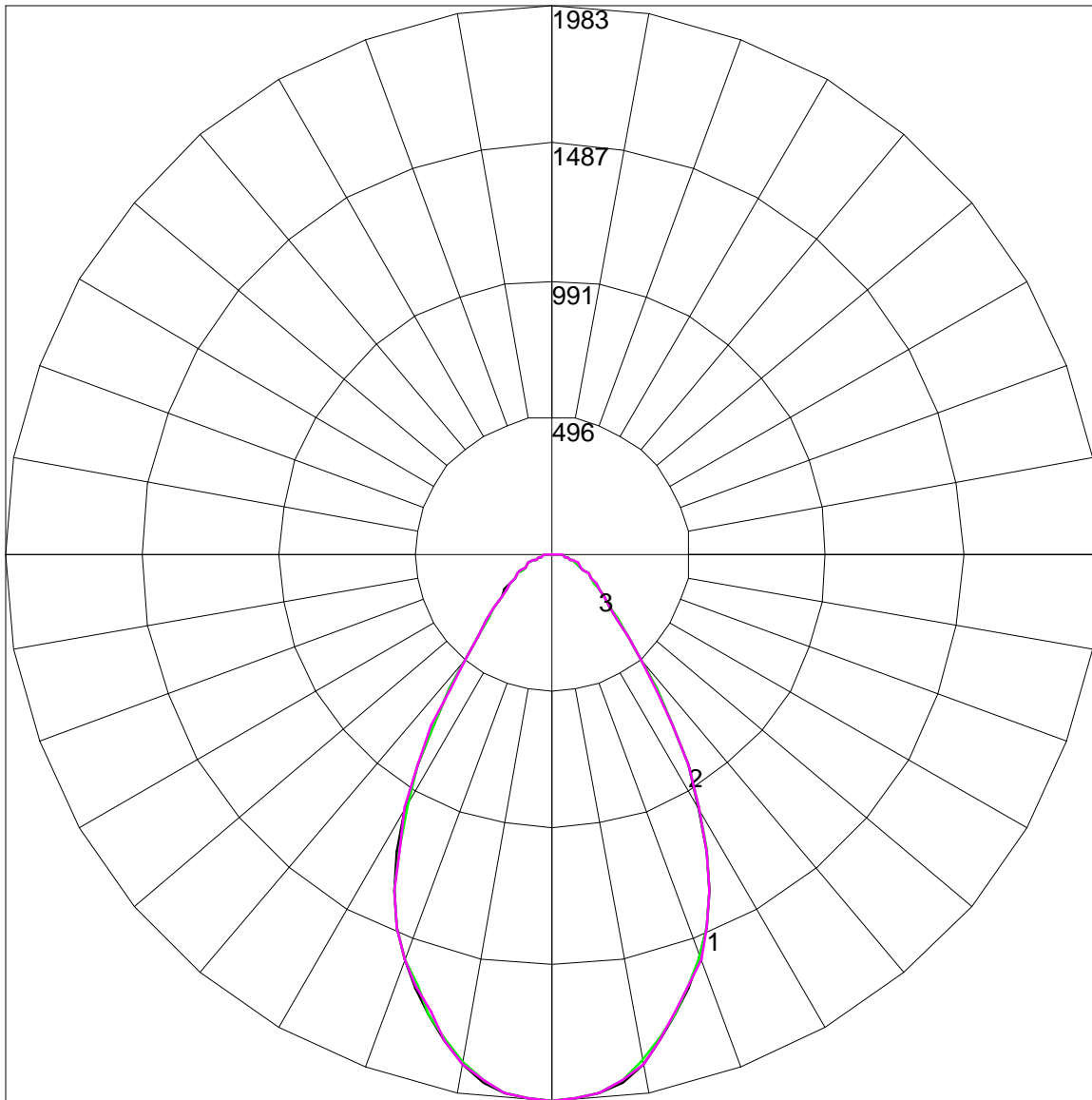
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	54	49	45	43
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	46	42	40

POLAR GRAPH



Maximum Candela = 1982.567 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)