

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-45L35KE1-AR5224OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST]20141006_M-45L-Gen3

[TESTLAB]OSRAM SYLVANIA

[TESTDATE]8/12/2014

[ISSUE DATE]8/12/2014

[UPDATE]1/4/2017

[MANUFAC]Spectrum Lighting

[LUMCAT]SGE5LEDOS-45L-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] THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM 30L, GEN2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	41.1
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	42353	42347	42289
55	31737	31859	31920
65	27709	28014	28343
75	24327	24613	24851
85	18485	19206	19075

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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	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145
2.5	3408.004	3404.153	3408.048	3411.150	3413.619	3411.150	3408.048	3404.153	3408.004	3404.153
5.0	3356.848	3353.026	3355.407	3351.644	3350.586	3351.644	3355.407	3353.026	3356.848	3353.026
7.5	3262.327	3259.166	3255.580	3248.274	3253.169	3248.274	3255.580	3259.166	3262.327	3259.166
10.0	3121.824	3119.884	3115.474	3116.209	3119.722	3116.209	3115.474	3119.884	3121.824	3119.884
12.5	2958.213	2956.111	2957.170	2955.626	2951.569	2955.626	2957.170	2956.111	2958.213	2956.111
15.0	2794.646	2793.441	2789.795	2789.531	2792.059	2789.531	2789.795	2793.441	2794.646	2793.441
17.5	2626.846	2628.110	2621.921	2624.832	2623.215	2624.832	2621.921	2628.110	2626.846	2628.110
20.0	2470.041	2469.424	2472.467	2470.879	2471.614	2470.879	2472.467	2469.424	2470.041	2469.424
22.5	2305.004	2308.826	2307.503	2305.695	2306.504	2305.695	2307.503	2308.826	2305.004	2308.826
25.0	2077.213	2076.787	2070.495	2070.128	2075.037	2070.128	2070.495	2076.787	2077.213	2076.787
27.5	1791.401	1795.708	1786.873	1783.463	1783.125	1783.463	1786.873	1795.708	1791.401	1795.708
30.0	1480.775	1482.892	1477.835	1474.013	1473.308	1474.013	1477.835	1482.892	1480.775	1482.892
32.5	1174.265	1174.986	1172.016	1168.238	1169.429	1168.238	1172.016	1174.986	1174.265	1174.986
35.0	897.215	902.595	899.111	894.172	895.774	894.172	899.111	902.595	897.215	902.595
37.5	687.857	689.415	685.432	685.667	689.945	685.667	685.432	689.415	687.857	689.415
40.0	547.222	547.472	544.973	544.517	546.605	544.517	544.973	547.472	547.222	547.472
42.5	453.701	455.288	453.172	451.893	451.731	451.893	453.172	455.288	453.701	455.288
45.0	385.831	387.066	385.772	384.640	385.243	384.640	385.772	387.066	385.831	387.066
47.5	337.336	337.350	336.762	336.424	337.086	336.424	336.762	337.350	337.336	337.350
50.0	300.424	300.571	300.321	299.586	299.836	299.586	300.321	300.571	300.424	300.571
52.5	265.732	266.026	265.967	265.306	265.438	265.306	265.967	266.026	265.732	266.026
55.0	234.524	234.965	235.421	235.597	235.876	235.597	235.421	234.965	234.524	234.965
57.5	210.680	211.504	212.489	213.282	213.415	213.282	212.489	211.504	210.680	211.504
60.0	188.528	189.410	190.630	191.982	192.203	191.982	190.630	189.410	188.528	189.410
62.5	169.550	170.138	171.284	172.563	173.181	172.563	171.284	170.138	169.550	170.138
65.0	150.866	151.410	152.527	153.586	154.321	153.586	152.527	151.410	150.866	151.410
67.5	132.741	133.329	134.270	135.020	135.549	135.020	134.270	133.329	132.741	133.329
70.0	115.469	115.704	116.395	117.233	117.571	117.233	116.395	115.704	115.469	115.704
72.5	98.152	98.387	99.019	99.916	100.122	99.916	99.019	98.387	98.152	98.387
75.0	81.115	81.703	82.070	82.820	82.864	82.820	82.070	81.703	81.115	81.703
77.5	65.165	65.724	65.930	66.400	66.356	66.400	65.930	65.724	65.165	65.724
80.0	49.995	50.553	50.642	50.818	50.818	50.818	50.642	50.553	49.995	50.553
82.5	35.177	35.809	36.118	35.897	35.795	35.897	36.118	35.809	35.177	35.809
85.0	20.756	21.418	21.565	21.447	21.418	21.447	21.565	21.418	20.756	21.418
87.5	7.335	7.938	7.967	7.953	7.806	7.953	7.967	7.938	7.335	7.938
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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CANDELA TABULATION - (Cont.)

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	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145	3422.145
2.5	3408.048	3411.150	3413.619	3411.150	3408.048	3404.153	3408.004
5.0	3355.407	3351.644	3350.586	3351.644	3355.407	3353.026	3356.848
7.5	3255.580	3248.274	3253.169	3248.274	3255.580	3259.166	3262.327
10.0	3115.474	3116.209	3119.722	3116.209	3115.474	3119.884	3121.824
12.5	2957.170	2955.626	2951.569	2955.626	2957.170	2956.111	2958.213
15.0	2789.795	2789.531	2792.059	2789.531	2789.795	2793.441	2794.646
17.5	2621.921	2624.832	2623.215	2624.832	2621.921	2628.110	2626.846
20.0	2472.467	2470.879	2471.614	2470.879	2472.467	2469.424	2470.041
22.5	2307.503	2305.695	2306.504	2305.695	2307.503	2308.826	2305.004
25.0	2070.495	2070.128	2075.037	2070.128	2070.495	2076.787	2077.213
27.5	1786.873	1783.463	1783.125	1783.463	1786.873	1795.708	1791.401
30.0	1477.835	1474.013	1473.308	1474.013	1477.835	1482.892	1480.775
32.5	1172.016	1168.238	1169.429	1168.238	1172.016	1174.986	1174.265
35.0	899.111	894.172	895.774	894.172	899.111	902.595	897.215
37.5	685.432	685.667	689.945	685.667	685.432	689.415	687.857
40.0	544.973	544.517	546.605	544.517	544.973	547.472	547.222
42.5	453.172	451.893	451.731	451.893	453.172	455.288	453.701
45.0	385.772	384.640	385.243	384.640	385.772	387.066	385.831
47.5	336.762	336.424	337.086	336.424	336.762	337.350	337.336
50.0	300.321	299.586	299.836	299.586	300.321	300.571	300.424
52.5	265.967	265.306	265.438	265.306	265.967	266.026	265.732
55.0	235.421	235.597	235.876	235.597	235.421	234.965	234.524
57.5	212.489	213.282	213.415	213.282	212.489	211.504	210.680
60.0	190.630	191.982	192.203	191.982	190.630	189.410	188.528
62.5	171.284	172.563	173.181	172.563	171.284	170.138	169.550
65.0	152.527	153.586	154.321	153.586	152.527	151.410	150.866
67.5	134.270	135.020	135.549	135.020	134.270	133.329	132.741
70.0	116.395	117.233	117.571	117.233	116.395	115.704	115.469
72.5	99.019	99.916	100.122	99.916	99.019	98.387	98.152
75.0	82.070	82.820	82.864	82.820	82.070	81.703	81.115
77.5	65.930	66.400	66.356	66.400	65.930	65.724	65.165
80.0	50.642	50.818	50.818	50.818	50.642	50.553	49.995

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CANDELA TABULATION - (Cont.)

82.5	36.118	35.897	35.795	35.897	36.118	35.809	35.177
85.0	21.565	21.447	21.418	21.447	21.565	21.418	20.756
87.5	7.967	7.953	7.806	7.953	7.967	7.938	7.335
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	1094.49	N.A.	32.30
0-30	2023.1	N.A.	59.70
0-40	2603.44	N.A.	76.90
0-60	3124.58	N.A.	92.20
0-80	3363.1	N.A.	99.30
0-90	3387.68	N.A.	100.00
10-90	3075.13	N.A.	90.80
20-40	1508.95	N.A.	44.50
20-50	1815.99	N.A.	53.60
40-70	672.44	N.A.	19.80
60-80	238.52	N.A.	7.00
70-80	87.22	N.A.	2.60
80-90	24.58	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	3387.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	312.55
10-20	781.94
20-30	928.61
30-40	580.34
40-50	307.04
50-60	214.10
60-70	151.30
70-80	87.22
80-90	24.58
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

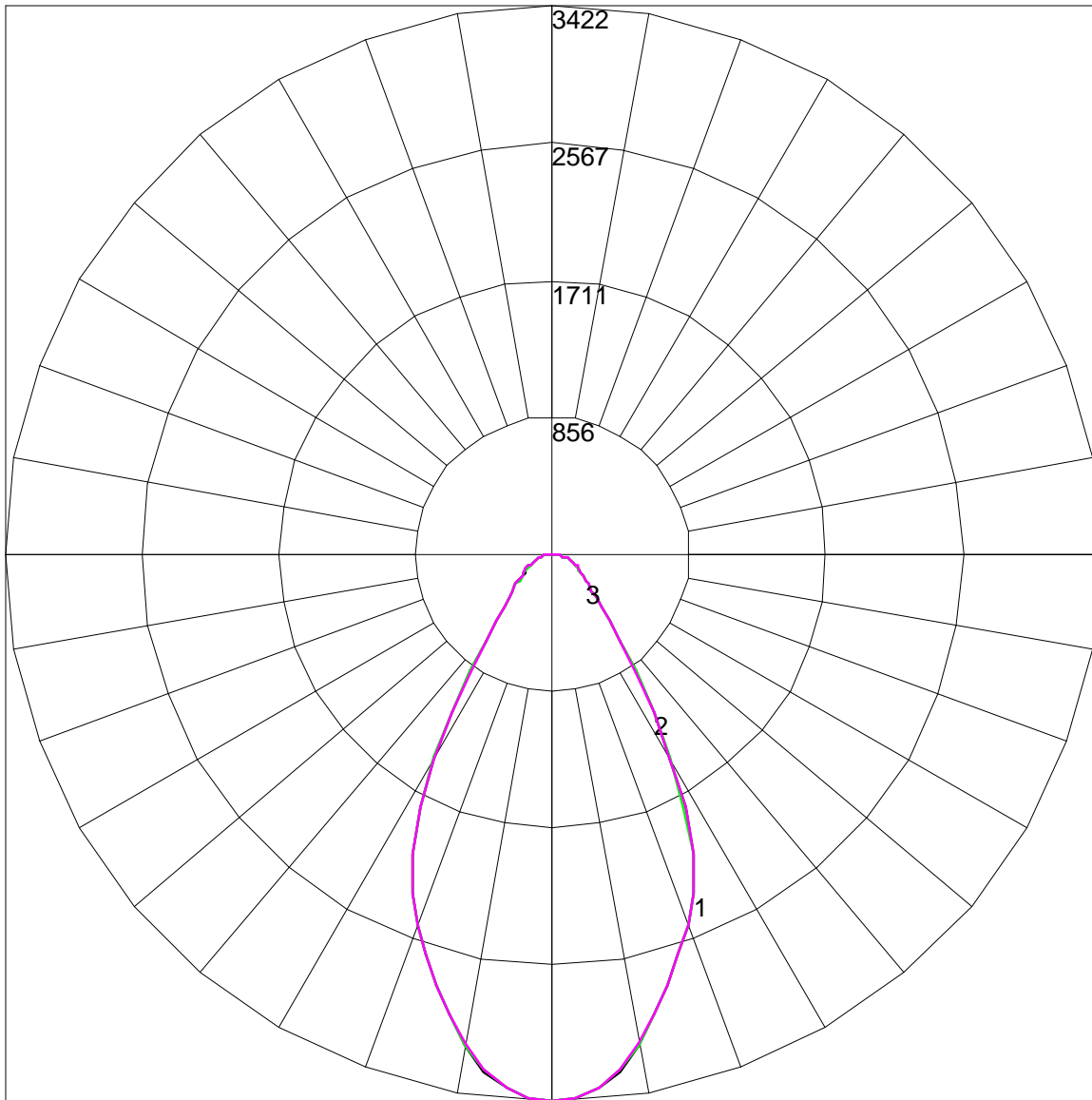
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3422.145 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)