

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KE1-AR5224OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141006_M-10L-Gen3
[TESTLAB]OSRAM SYLVANIA
[TESTDATE]8/12/2014
[ISSUEDATE]8/12/2014
[UPDATE]1/4/2017
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE5LEDOS-10L-35K-EX-AR5224OS-MW-SO
[LUMINAIRE]5" DIAM., OPEN APERTURE LED DOWNLIGHT
[OTHER]SHALLOW 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: 14W NOW CALLED 10L
[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	785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	10.464
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	9819	9818	9804
55	7358	7386	7400
65	6424	6495	6571
75	5640	5706	5761
85	4286	4453	4422

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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	793.379	793.379	793.379	793.379	793.379	793.379	793.379	793.379	793.379	793.379
2.5	790.100	789.208	790.111	790.830	791.402	790.830	790.111	789.208	790.100	789.208
5.0	778.241	777.355	777.907	777.034	776.789	777.034	777.907	777.355	778.241	777.355
7.5	756.327	755.594	754.763	753.069	754.204	753.069	754.763	755.594	756.327	755.594
10.0	723.754	723.304	722.281	722.452	723.266	722.452	723.304	723.754	723.304	723.754
12.5	685.822	685.335	685.581	685.223	684.282	685.223	685.581	685.335	685.822	685.335
15.0	647.902	647.622	646.777	646.716	647.302	646.716	646.777	647.622	647.902	647.622
17.5	608.999	609.292	607.858	608.532	608.158	608.532	607.858	609.292	608.999	609.292
20.0	572.646	572.503	573.209	572.840	573.011	572.840	573.209	572.503	572.646	572.503
22.5	534.385	535.271	534.964	534.545	534.732	534.545	534.964	535.271	534.385	535.271
25.0	481.574	481.475	480.017	479.932	481.070	479.932	480.017	481.475	481.574	481.475
27.5	415.312	416.311	414.263	413.472	413.394	413.472	414.263	416.311	415.312	416.311
30.0	343.298	343.789	342.616	341.730	341.567	341.730	342.616	343.789	343.298	343.789
32.5	272.238	272.405	271.716	270.841	271.117	270.841	271.716	272.405	272.238	272.405
35.0	208.007	209.255	208.447	207.302	207.673	207.302	208.447	209.255	208.007	209.255
37.5	159.471	159.832	158.908	158.963	159.954	158.963	158.908	159.832	159.471	159.832
40.0	126.866	126.924	126.345	126.239	126.723	126.239	126.345	126.924	126.866	126.924
42.5	105.185	105.553	105.062	104.765	104.728	104.765	105.062	105.553	105.185	105.553
45.0	89.450	89.736	89.436	89.174	89.313	89.174	89.436	89.736	89.450	89.736
47.5	78.207	78.210	78.074	77.995	78.149	77.995	78.074	78.210	78.207	78.210
50.0	69.649	69.683	69.625	69.455	69.513	69.455	69.625	69.683	69.649	69.683
52.5	61.606	61.675	61.661	61.508	61.538	61.508	61.661	61.675	61.606	61.675
55.0	54.371	54.473	54.579	54.620	54.685	54.620	54.579	54.473	54.371	54.473
57.5	48.843	49.034	49.263	49.447	49.477	49.447	49.263	49.034	48.843	49.034
60.0	43.708	43.912	44.195	44.508	44.560	44.508	43.912	43.708	43.912	44.195
62.5	39.308	39.444	39.710	40.007	40.150	40.007	39.710	39.444	39.308	39.444
65.0	34.976	35.102	35.361	35.607	35.777	35.607	35.361	35.102	34.976	35.102
67.5	30.774	30.911	31.129	31.302	31.425	31.302	31.129	30.911	30.774	30.911
70.0	26.770	26.824	26.985	27.179	27.257	27.179	26.985	26.824	26.770	26.824
72.5	22.755	22.810	22.956	23.164	23.212	23.164	22.956	22.810	22.755	22.810
75.0	18.805	18.942	19.027	19.201	19.211	19.201	19.027	18.942	18.805	18.942
77.5	15.108	15.237	15.285	15.394	15.384	15.394	15.285	15.237	15.108	15.237
80.0	11.591	11.720	11.741	11.781	11.781	11.781	11.741	11.720	11.591	11.720
82.5	8.155	8.302	8.373	8.322	8.298	8.322	8.373	8.302	8.155	8.302
85.0	4.812	4.965	5.000	4.972	4.965	4.972	5.000	4.965	4.812	4.965
87.5	1.701	1.840	1.847	1.844	1.810	1.844	1.847	1.840	1.701	1.840
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	793.379	793.379	793.379	793.379	793.379	793.379	793.379
2.5	790.111	790.830	791.402	790.830	790.111	789.208	790.100
5.0	777.907	777.034	776.789	777.034	777.907	777.355	778.241
7.5	754.763	753.069	754.204	753.069	754.763	755.594	756.327
10.0	722.281	722.452	723.266	722.452	722.281	723.304	723.754
12.5	685.581	685.223	684.282	685.223	685.581	685.335	685.822
15.0	646.777	646.716	647.302	646.716	646.777	647.622	647.902
17.5	607.858	608.532	608.158	608.532	607.858	609.292	608.999
20.0	573.209	572.840	573.011	572.840	573.209	572.503	572.646
22.5	534.964	534.545	534.732	534.545	534.964	535.271	534.385
25.0	480.017	479.932	481.070	479.932	480.017	481.475	481.574
27.5	414.263	413.472	413.394	413.472	414.263	416.311	415.312
30.0	342.616	341.730	341.567	341.730	342.616	343.789	343.298
32.5	271.716	270.841	271.117	270.841	271.716	272.405	272.238
35.0	208.447	207.302	207.673	207.302	208.447	209.255	208.007
37.5	158.908	158.963	159.954	158.963	158.908	159.832	159.471
40.0	126.345	126.239	126.723	126.239	126.345	126.924	126.866
42.5	105.062	104.765	104.728	104.765	105.062	105.553	105.185
45.0	89.436	89.174	89.313	89.174	89.436	89.736	89.450
47.5	78.074	77.995	78.149	77.995	78.074	78.210	78.207
50.0	69.625	69.455	69.513	69.455	69.625	69.683	69.649
52.5	61.661	61.508	61.538	61.508	61.661	61.675	61.606
55.0	54.579	54.620	54.685	54.620	54.579	54.473	54.371
57.5	49.263	49.447	49.477	49.447	49.263	49.034	48.843
60.0	44.195	44.508	44.560	44.508	44.195	43.912	43.708
62.5	39.710	40.007	40.150	40.007	39.710	39.444	39.308
65.0	35.361	35.607	35.777	35.607	35.361	35.102	34.976
67.5	31.129	31.302	31.425	31.302	31.129	30.911	30.774
70.0	26.985	27.179	27.257	27.179	26.985	26.824	26.770
72.5	22.956	23.164	23.212	23.164	22.956	22.810	22.755
75.0	19.027	19.201	19.211	19.201	19.027	18.942	18.805
77.5	15.285	15.394	15.384	15.394	15.285	15.237	15.108
80.0	11.741	11.781	11.781	11.781	11.741	11.720	11.591

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82.5	8.373	8.322	8.298	8.322	8.373	8.302	8.155
85.0	5.000	4.972	4.965	4.972	5.000	4.965	4.812
87.5	1.847	1.844	1.810	1.844	1.847	1.840	1.701
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	253.74	N.A.	32.30
0-30	469.03	N.A.	59.70
0-40	603.57	N.A.	76.80
0-60	724.39	N.A.	92.20
0-80	779.69	N.A.	99.30
0-90	785.39	N.A.	100.00
10-90	712.93	N.A.	90.80
20-40	349.83	N.A.	44.50
20-50	421.01	N.A.	53.60
40-70	155.90	N.A.	19.90
60-80	55.30	N.A.	7.00
70-80	20.22	N.A.	2.60
80-90	5.70	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	785.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.46
10-20	181.28
20-30	215.29
30-40	134.54
40-50	71.18
50-60	49.64
60-70	35.08
70-80	20.22
80-90	5.70
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

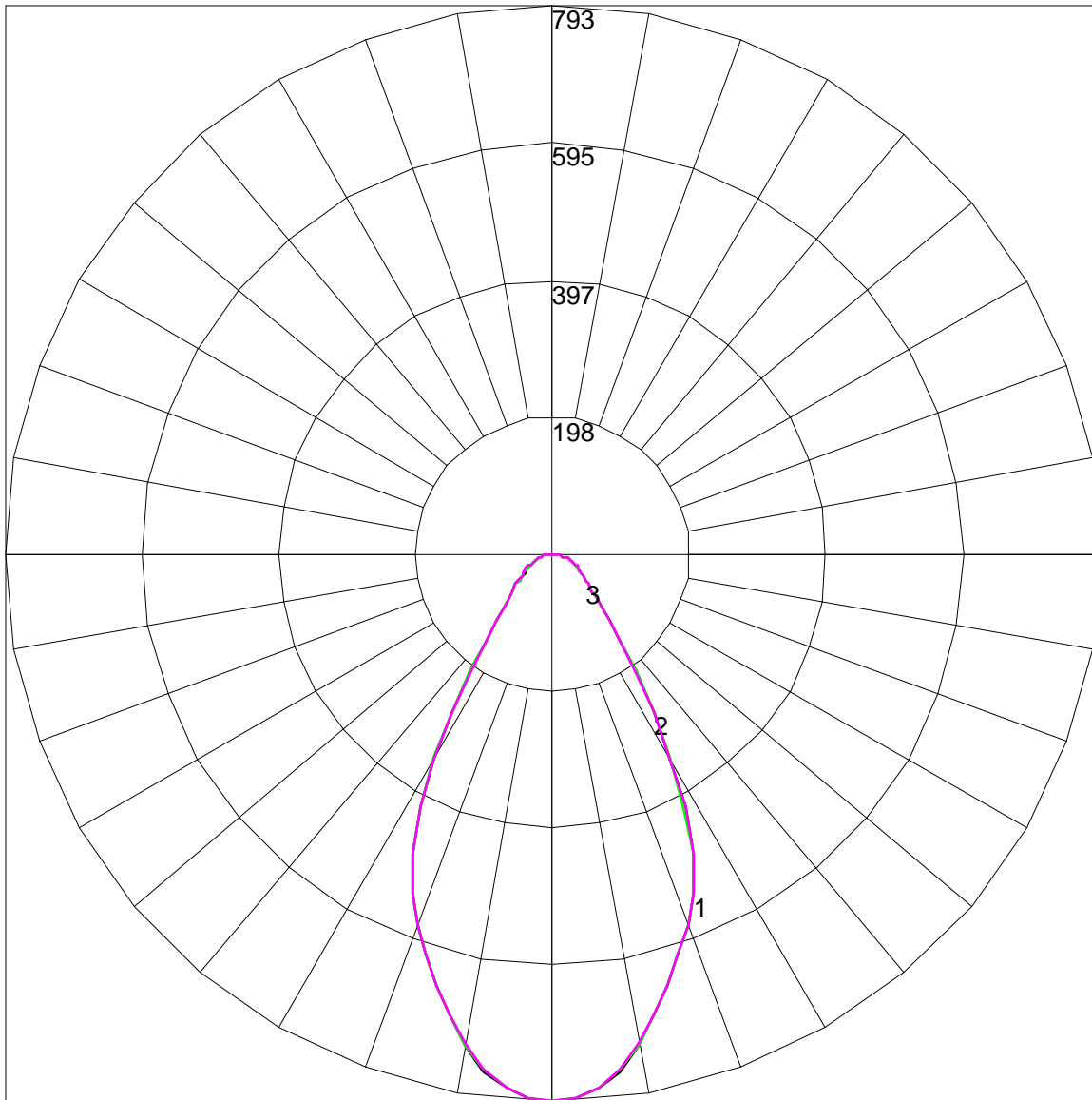
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	86	77	70	66	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	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50
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 = 793.379 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)