

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4LEDOS-45L35KEX-AR4224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-005_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1609071034-002-2_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE4LEDOS-45L-35K-EX-AR4224OS-SG-SO
[LUMINAIRE] 4" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] DEEP PROFILE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 51.1 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3378
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)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.80
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	59790	58922	59211
55	20374	19790	19628
65	3434	3126	3170
75	0	0	0
85	0	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	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916
2.5	4426.088	4431.860	4424.016	4426.088	4424.164	4426.088	4424.016	4431.860	4426.088	4431.860
5.0	4368.368	4357.712	4356.084	4386.276	4377.544	4386.276	4356.084	4357.712	4368.368	4357.712
7.5	4244.492	4249.968	4260.328	4265.508	4243.308	4265.508	4260.328	4249.968	4244.492	4249.968
10.0	4068.668	4081.396	4061.860	4081.692	4095.752	4081.692	4061.860	4081.396	4068.668	4081.396
12.5	3851.848	3849.776	3847.260	3838.676	3846.520	3838.676	3847.260	3849.776	3851.848	3849.776
15.0	3632.956	3614.900	3600.544	3590.924	3626.592	3590.924	3600.544	3614.900	3632.956	3614.900
17.5	3341.100	3353.532	3331.184	3355.456	3360.340	3355.456	3331.184	3353.532	3341.100	3353.532
20.0	3057.088	3067.892	3027.784	3057.384	3052.056	3057.384	3027.784	3067.892	3057.088	3067.892
22.5	2714.320	2713.284	2676.580	2694.340	2697.004	2694.340	2676.580	2713.284	2714.320	2713.284
25.0	2319.604	2317.384	2307.912	2299.180	2312.944	2299.180	2307.912	2317.384	2319.604	2317.384
27.5	1898.988	1911.272	1898.248	1896.028	1900.912	1896.028	1898.248	1911.272	1898.988	1911.272
30.0	1515.520	1517.296	1510.044	1505.456	1498.056	1505.456	1510.044	1517.296	1515.520	1517.296
32.5	1157.064	1156.620	1157.064	1146.852	1145.816	1146.852	1157.064	1156.620	1157.064	1156.620
35.0	865.652	862.544	853.516	853.664	861.212	853.664	853.516	862.544	865.652	862.544
37.5	654.308	650.904	642.172	644.688	652.088	644.688	642.172	650.904	654.308	650.904
40.0	514.004	514.744	510.156	509.564	513.560	509.564	510.156	514.744	514.004	514.744
42.5	415.584	414.400	411.440	411.736	413.660	411.736	414.400	415.584	414.400	411.440
45.0	336.256	333.740	331.372	330.928	333.000	330.928	331.372	333.740	336.256	333.740
47.5	265.068	262.256	259.740	259.444	261.812	259.444	259.740	262.256	265.068	262.256
50.0	201.132	198.616	196.248	195.212	197.136	195.212	196.248	198.616	201.132	198.616
52.5	142.228	141.488	139.564	137.492	139.268	137.492	139.564	141.488	142.228	141.488
55.0	92.944	91.760	90.280	89.392	89.540	89.392	90.280	91.760	92.944	91.760
57.5	54.612	53.280	51.800	51.652	51.800	51.652	53.280	54.612	53.280	51.800
60.0	30.340	29.452	28.416	27.972	27.824	27.972	28.416	29.452	30.340	29.452
62.5	19.240	18.944	18.204	17.020	17.464	17.020	18.204	18.944	19.240	18.944
65.0	11.544	11.396	10.508	10.212	10.656	10.212	10.508	11.396	11.544	11.396
67.5	6.364	5.920	5.772	4.884	5.032	4.884	5.772	5.920	6.364	5.920
70.0	2.072	2.368	1.924	1.332	1.332	1.332	1.924	2.368	2.072	2.368
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	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	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916	4449.916
2.5	4424.016	4426.088	4424.164	4426.088	4424.016	4431.860	4426.088
5.0	4356.084	4386.276	4377.544	4386.276	4356.084	4357.712	4368.368
7.5	4260.328	4265.508	4243.308	4265.508	4260.328	4249.968	4244.492
10.0	4061.860	4081.692	4095.752	4081.692	4061.860	4081.396	4068.668
12.5	3847.260	3838.676	3846.520	3838.676	3847.260	3849.776	3851.848
15.0	3600.544	3590.924	3626.592	3590.924	3600.544	3614.900	3632.956
17.5	3331.184	3355.456	3360.340	3355.456	3331.184	3353.532	3341.100
20.0	3027.784	3057.384	3052.056	3057.384	3027.784	3067.892	3057.088
22.5	2676.580	2694.340	2697.004	2694.340	2676.580	2713.284	2714.320
25.0	2307.912	2299.180	2312.944	2299.180	2307.912	2317.384	2319.604
27.5	1898.248	1896.028	1900.912	1896.028	1898.248	1911.272	1898.988
30.0	1510.044	1505.456	1498.056	1505.456	1510.044	1517.296	1515.520

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32.5	1157.064	1146.852	1145.816	1146.852	1157.064	1156.620	1157.064
35.0	853.516	853.664	861.212	853.664	853.516	862.544	865.652
37.5	642.172	644.688	652.088	644.688	642.172	650.904	654.308
40.0	510.156	509.564	513.560	509.564	510.156	514.744	514.004
42.5	411.440	411.736	413.660	411.736	411.440	414.400	415.584
45.0	331.372	330.928	333.000	330.928	331.372	333.740	336.256
47.5	259.740	259.444	261.812	259.444	259.740	262.256	265.068
50.0	196.248	195.212	197.136	195.212	196.248	198.616	201.132
52.5	139.564	137.492	139.268	137.492	139.564	141.488	142.228
55.0	90.280	89.392	89.540	89.392	90.280	91.760	92.944
57.5	51.800	51.652	51.800	51.652	51.800	53.280	54.612
60.0	28.416	27.972	27.824	27.972	28.416	29.452	30.340
62.5	18.204	17.020	17.464	17.020	18.204	18.944	19.240
65.0	10.508	10.212	10.656	10.212	10.508	11.396	11.544
67.5	5.772	4.884	5.032	4.884	5.772	5.920	6.364
70.0	1.924	1.332	1.332	1.332	1.924	2.368	2.072
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	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
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	1411.32	N.A.	41.80
0-30	2453.6	N.A.	72.60
0-40	3017.67	N.A.	89.30
0-60	3365.36	N.A.	99.60
0-80	3377.79	N.A.	100.00
0-90	3377.79	N.A.	100.00
10-90	2970.00	N.A.	87.90
20-40	1606.35	N.A.	47.60
20-50	1866.69	N.A.	55.30
40-70	359.88	N.A.	10.70
60-80	12.43	N.A.	0.40
70-80	0.24	N.A.	0.00
80-90	0.00	N.A.	0.00
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	3377.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	407.79
10-20	1003.54
20-30	1042.27
30-40	564.07
40-50	260.34
50-60	87.35
60-70	12.19
70-80	0.24
80-90	0.00
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

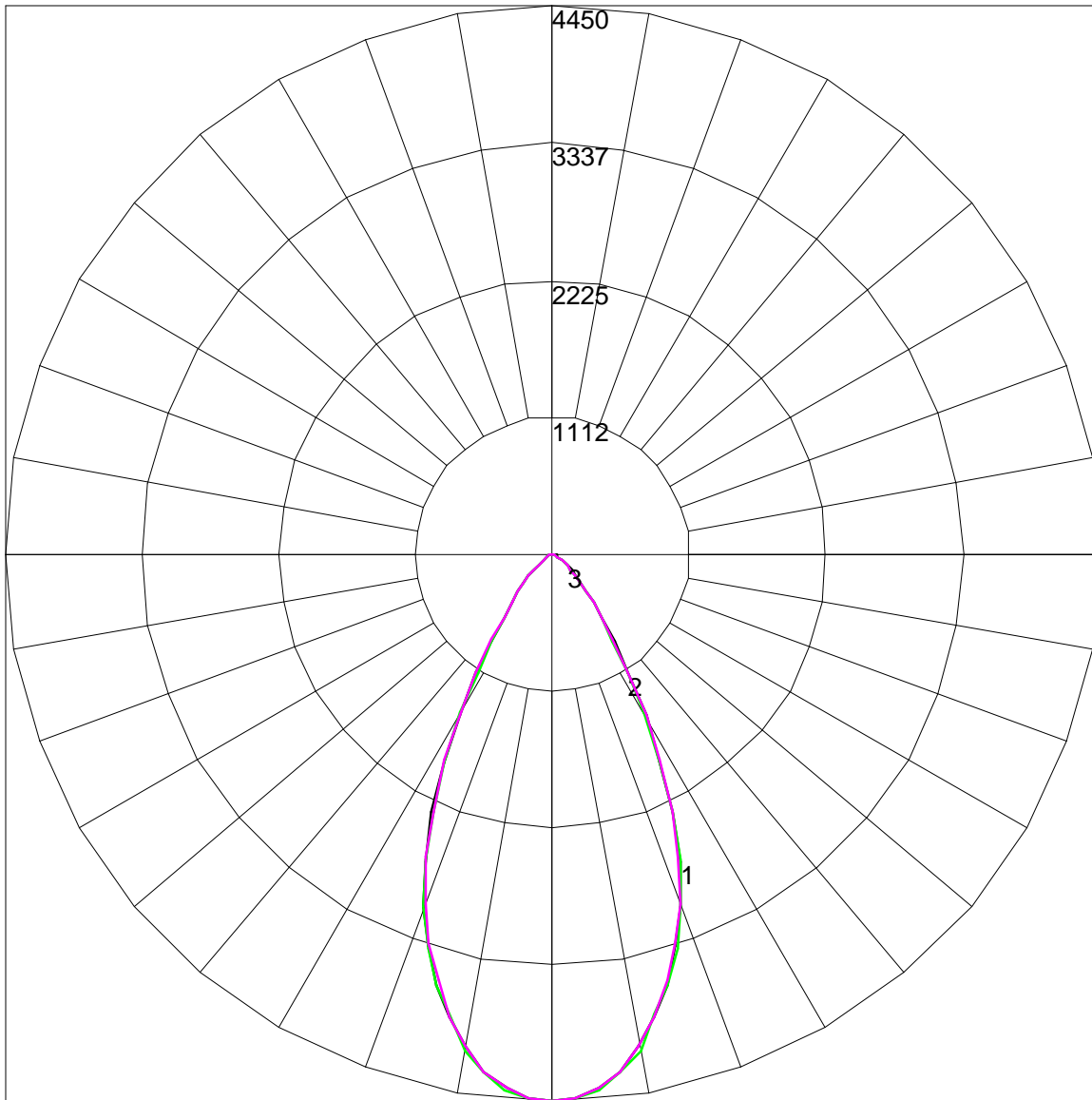
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

POLAR GRAPH



Maximum Candela = 4449.916 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)