

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-45L35KEX-AR5223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-008_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1609071034-005_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE5LEDOS-45L-35K-EX-AR5223OS-SG-SO
[LUMINAIRE] 5" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] SHALLOW PROFILE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 60.2 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
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	38341	38390	38049
55	14320	14220	14040
65	489	435	299
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	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648
2.5	3891.956	3886.184	3889.144	3884.112	3885.296	3884.112	3889.144	3886.184	3891.956	3886.184
5.0	3841.488	3841.044	3842.080	3844.448	3844.300	3844.448	3842.080	3841.044	3841.488	3841.044
7.5	3764.380	3764.084	3768.376	3767.932	3766.896	3767.932	3768.376	3764.084	3764.380	3764.084
10.0	3657.968	3653.972	3653.676	3656.192	3662.408	3656.192	3653.676	3653.972	3657.968	3653.972
12.5	3517.072	3517.516	3516.628	3524.768	3527.580	3524.768	3516.628	3517.516	3517.072	3517.516
15.0	3357.972	3348.352	3355.604	3360.488	3363.152	3360.488	3355.604	3348.352	3357.972	3348.352
17.5	3168.384	3169.124	3166.164	3168.532	3173.712	3168.532	3166.164	3169.124	3168.384	3169.124
20.0	2958.668	2959.408	2959.408	2958.964	2955.856	2958.964	2959.408	2959.408	2958.668	2959.408
22.5	2732.228	2721.128	2724.384	2730.156	2724.236	2730.156	2724.384	2721.128	2732.228	2721.128
25.0	2496.020	2484.920	2488.028	2488.176	2485.660	2488.176	2488.028	2484.920	2496.020	2484.920
27.5	2247.972	2230.360	2232.284	2234.504	2235.096	2234.504	2232.284	2230.360	2247.972	2230.360
30.0	1968.400	1953.008	1952.416	1952.860	1955.524	1952.860	1952.416	1953.008	1968.400	1953.008
32.5	1657.452	1641.616	1635.548	1641.320	1648.424	1641.320	1635.548	1641.616	1657.452	1641.616
35.0	1322.676	1312.316	1315.128	1317.496	1315.424	1317.496	1315.128	1312.316	1322.676	1312.316
37.5	1000.480	994.264	1000.184	1001.368	991.304	1001.368	1000.184	994.264	1000.480	994.264
40.0	719.428	715.432	722.832	720.168	711.140	720.168	722.832	715.432	719.428	715.432
42.5	498.316	499.204	499.648	498.612	494.024	498.612	499.648	499.204	498.316	499.204
45.0	349.280	350.908	349.724	349.576	346.616	349.576	349.724	350.908	349.280	350.908
47.5	256.632	255.744	255.300	255.892	252.192	255.892	255.300	255.744	256.632	255.744
50.0	192.844	191.660	190.920	190.772	188.108	190.772	190.920	191.660	192.844	191.660
52.5	144.596	144.448	143.856	142.820	141.636	142.820	143.856	144.448	144.596	144.448
55.0	105.820	105.524	105.080	104.340	103.748	104.340	105.080	105.524	105.820	105.524
57.5	73.260	73.260	73.112	72.372	71.780	72.372	73.112	73.260	73.260	73.260
60.0	44.844	44.400	44.696	43.808	42.624	43.808	44.696	44.400	44.844	44.400
62.5	19.240	18.796	19.092	18.204	17.464	18.204	19.092	18.796	19.240	18.796
65.0	2.664	2.368	2.368	1.924	1.628	1.924	2.368	2.368	2.664	2.368
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648	3903.648
2.5	3889.144	3884.112	3885.296	3884.112	3889.144	3886.184	3891.956
5.0	3842.080	3844.448	3844.300	3844.448	3842.080	3841.044	3841.488
7.5	3768.376	3767.932	3766.896	3767.932	3768.376	3764.084	3764.380
10.0	3653.676	3656.192	3662.408	3656.192	3653.676	3653.972	3657.968
12.5	3516.628	3524.768	3527.580	3524.768	3516.628	3517.516	3517.072
15.0	3355.604	3360.488	3363.152	3360.488	3355.604	3348.352	3357.972
17.5	3166.164	3168.532	3173.712	3168.532	3166.164	3169.124	3168.384
20.0	2959.408	2958.964	2955.856	2958.964	2959.408	2959.408	2958.668
22.5	2724.384	2730.156	2724.236	2730.156	2724.384	2721.128	2732.228
25.0	2488.028	2488.176	2485.660	2488.176	2488.028	2484.920	2496.020
27.5	2232.284	2234.504	2235.096	2234.504	2232.284	2230.360	2247.972
30.0	1952.416	1952.860	1955.524	1952.860	1952.416	1953.008	1968.400

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CANDELA TABULATION - (Cont.)

32.5	1635.548	1641.320	1648.424	1641.320	1635.548	1641.616	1657.452
35.0	1315.128	1317.496	1315.424	1317.496	1315.128	1312.316	1322.676
37.5	1000.184	1001.368	991.304	1001.368	1000.184	994.264	1000.480
40.0	722.832	720.168	711.140	720.168	722.832	715.432	719.428
42.5	499.648	498.612	494.024	498.612	499.648	499.204	498.316
45.0	349.724	349.576	346.616	349.576	349.724	350.908	349.280
47.5	255.300	255.892	252.192	255.892	255.300	255.744	256.632
50.0	190.920	190.772	188.108	190.772	190.920	191.660	192.844
52.5	143.856	142.820	141.636	142.820	143.856	144.448	144.596
55.0	105.080	104.340	103.748	104.340	105.080	105.524	105.820
57.5	73.112	72.372	71.780	72.372	73.112	73.260	73.260
60.0	44.696	43.808	42.624	43.808	44.696	44.400	44.844
62.5	19.092	18.204	17.464	18.204	19.092	18.796	19.240
65.0	2.368	1.924	1.628	1.924	2.368	2.368	2.664
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1297.06	N.A.	35.50
0-30	2429.82	N.A.	66.60
0-40	3245.77	N.A.	88.90
0-60	3639.18	N.A.	99.70
0-80	3649.56	N.A.	100.00
0-90	3649.56	N.A.	100.00
10-90	3288.66	N.A.	90.10
20-40	1948.7	N.A.	53.40
20-50	2244.93	N.A.	61.50
40-70	403.79	N.A.	11.10
60-80	10.38	N.A.	0.30
70-80	0.00	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	3649.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.90
10-20	936.16
20-30	1132.76
30-40	815.95
40-50	296.22
50-60	97.19
60-70	10.38
70-80	0.00
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

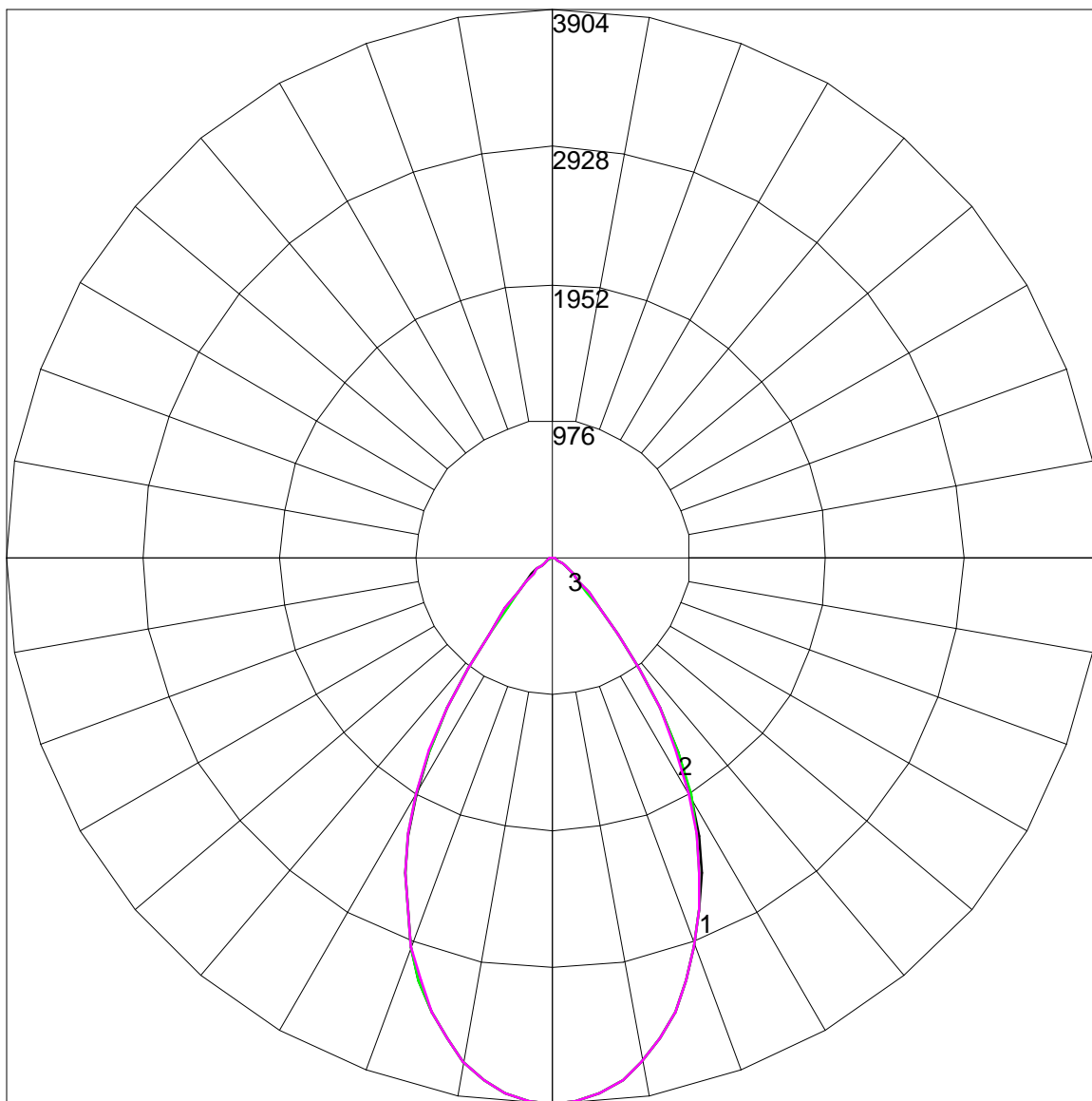
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	54	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 3903.648 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)