

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-45L35KEX-AR5224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-009_M-45L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1609071034-005-2_M-45L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE5LEDOS-45L-35K-EX-AR5224OS-SG-SO
[LUMINAIRE] 5" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] DEEP PROFILE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 39.5 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	3495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
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	19187	19252	19138
55	3445	3425	3225
65	0	0	0
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	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660
2.5	6289.852	6285.856	6287.780	6286.596	6280.528	6286.596	6287.780	6285.856	6289.852	6285.856
5.0	6108.404	6103.964	6108.108	6110.328	6103.964	6110.328	6108.108	6103.964	6108.404	6103.964
7.5	5766.228	5758.236	5761.344	5762.824	5761.492	5762.824	5761.344	5758.236	5766.228	5758.236
10.0	5283.156	5260.364	5259.180	5261.548	5266.580	5261.548	5259.180	5260.364	5283.156	5260.364
12.5	4702.848	4688.640	4681.832	4672.952	4689.084	4672.952	4681.832	4688.640	4702.848	4688.640
15.0	4133.788	4125.944	4111.144	4106.556	4101.524	4106.556	4111.144	4125.944	4133.788	4125.944
17.5	3588.556	3584.412	3573.904	3567.392	3567.984	3567.392	3573.904	3584.412	3588.556	3584.412
20.0	3132.568	3134.048	3131.680	3120.284	3111.552	3120.284	3131.680	3134.048	3132.568	3134.048
22.5	2769.968	2769.968	2766.860	2766.564	2758.868	2766.564	2766.860	2769.968	2769.968	2769.968
25.0	2401.744	2400.412	2393.604	2398.932	2390.200	2398.932	2393.604	2400.412	2401.744	2400.412
27.5	1998.740	1994.300	1988.380	1996.964	2001.256	1996.964	1988.380	1994.300	1998.740	1994.300
30.0	1581.528	1580.936	1585.820	1586.560	1590.704	1586.560	1585.820	1580.936	1581.528	1580.936
32.5	1185.332	1186.072	1196.728	1198.356	1189.180	1198.356	1196.728	1186.072	1185.332	1186.072
35.0	827.024	826.876	831.760	835.164	829.392	835.164	831.760	826.876	827.024	826.876
37.5	551.152	552.632	551.004	553.372	549.968	553.372	551.004	552.632	551.152	552.632
40.0	368.520	368.816	364.968	367.040	366.596	367.040	364.968	368.816	368.520	368.816
42.5	251.600	252.192	251.600	251.600	250.416	251.600	251.600	252.192	251.600	252.192
45.0	174.788	175.528	175.380	174.936	174.344	174.936	175.380	175.528	174.788	175.528
47.5	122.100	121.804	121.508	121.212	120.916	121.212	121.508	121.804	122.100	121.804
50.0	82.436	82.288	81.992	81.696	81.400	81.696	81.992	82.288	82.436	82.288
52.5	49.580	49.728	49.728	49.136	48.692	49.136	49.728	49.728	49.580	49.728
55.0	25.456	25.900	25.308	24.568	23.828	24.568	25.308	25.900	25.456	25.900
57.5	8.584	9.028	8.584	8.880	8.880	8.880	8.584	9.028	8.584	9.028
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660	6333.660
2.5	6287.780	6286.596	6280.528	6286.596	6287.780	6285.856	6289.852
5.0	6108.108	6110.328	6103.964	6110.328	6108.108	6103.964	6108.404
7.5	5761.344	5762.824	5761.492	5762.824	5761.344	5758.236	5766.228
10.0	5259.180	5261.548	5266.580	5261.548	5259.180	5260.364	5283.156
12.5	4681.832	4672.952	4689.084	4672.952	4681.832	4688.640	4702.848
15.0	4111.144	4106.556	4101.524	4106.556	4111.144	4125.944	4133.788
17.5	3573.904	3567.392	3567.984	3567.392	3573.904	3584.412	3588.556
20.0	3131.680	3120.284	3111.552	3120.284	3131.680	3134.048	3132.568
22.5	2766.860	2766.564	2758.868	2766.564	2766.860	2769.968	2769.968
25.0	2393.604	2398.932	2390.200	2398.932	2393.604	2400.412	2401.744
27.5	1988.380	1996.964	2001.256	1996.964	1988.380	1994.300	1998.740
30.0	1585.820	1586.560	1590.704	1586.560	1585.820	1580.936	1581.528

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32.5	1196.728	1198.356	1189.180	1198.356	1196.728	1186.072	1185.332
35.0	831.760	835.164	829.392	835.164	831.760	826.876	827.024
37.5	551.004	553.372	549.968	553.372	551.004	552.632	551.152
40.0	364.968	367.040	366.596	367.040	364.968	368.816	368.520
42.5	251.600	251.600	250.416	251.600	251.600	252.192	251.600
45.0	175.380	174.936	174.344	174.936	175.380	175.528	174.788
47.5	121.508	121.212	120.916	121.212	121.508	121.804	122.100
50.0	81.992	81.696	81.400	81.696	81.992	82.288	82.436
52.5	49.728	49.136	48.692	49.136	49.728	49.728	49.580
55.0	25.308	24.568	23.828	24.568	25.308	25.900	25.456
57.5	8.584	8.880	8.880	8.880	8.584	9.028	8.584
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1698.9	N.A.	48.60
0-30	2779.06	N.A.	79.50
0-40	3321.42	N.A.	95.00
0-60	3495.3	N.A.	100.00
0-80	3495.3	N.A.	100.00
0-90	3495.3	N.A.	100.00
10-90	2939.46	N.A.	84.10
20-40	1622.52	N.A.	46.40
20-50	1769.22	N.A.	50.60
40-70	173.88	N.A.	5.00
60-80	0.00	N.A.	0.00
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	3495.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	555.84
10-20	1143.07
20-30	1080.15
30-40	542.37
40-50	146.70
50-60	27.18
60-70	0.00
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

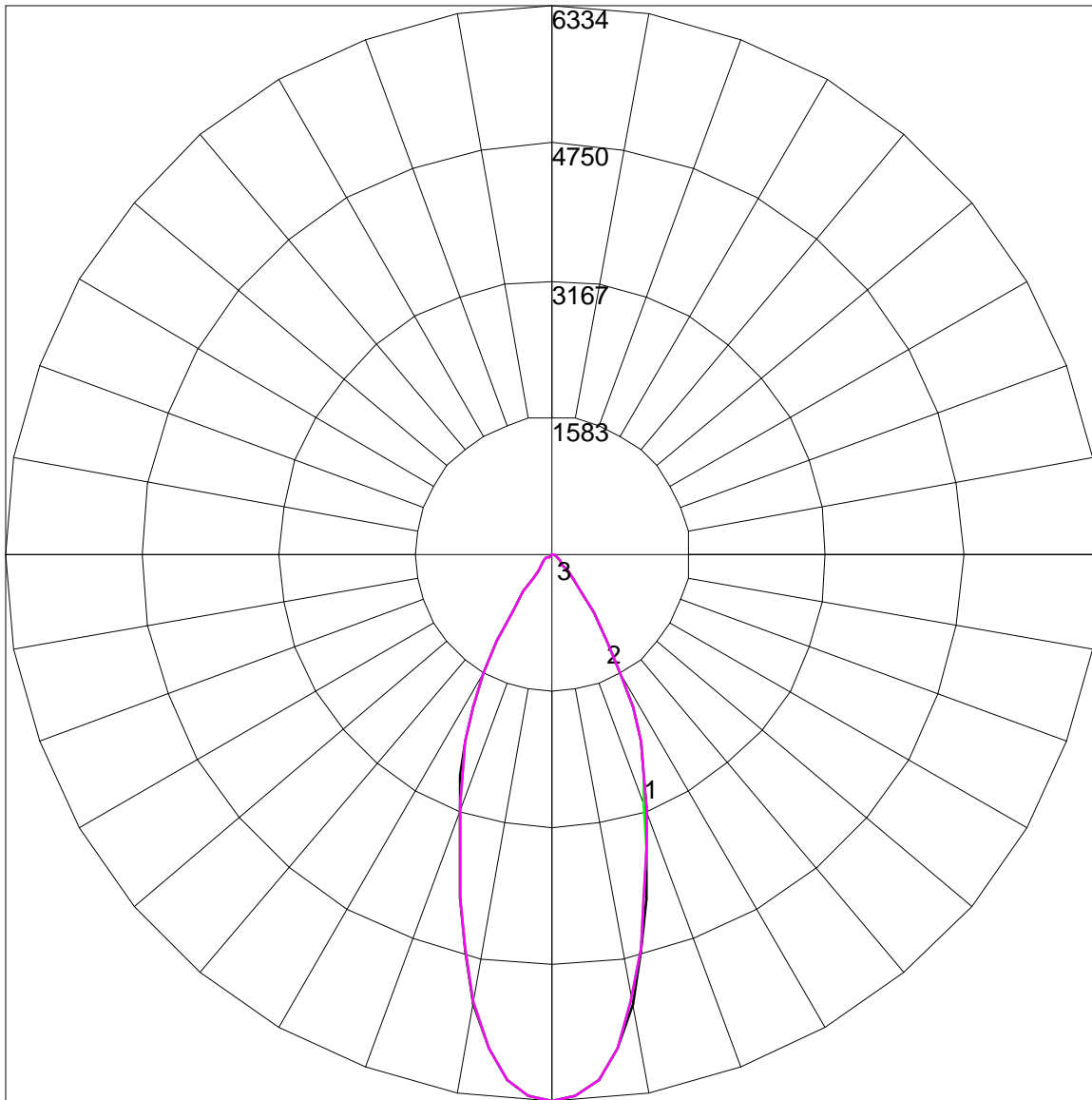
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	83	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57

POLAR GRAPH



Maximum Candela = 6333.66 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)