

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4LEDOS-30L35KEX-AR4223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-004
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/27/2016
[LAB-REF LUMCAT] CRT1609071034-002
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE4LEDOS-30L-35K-EX-AR4223OS-SG-SO
[LUMINAIRE] 4" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] SHALLOW PROFILE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 48.5 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	27.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
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	40025	39812	40168
55	17076	16923	17339
65	3213	3213	3392
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	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3
2.5	3162.7	3165.7	3169.8	3159.5	3164.1	3159.5	3169.8	3165.7	3162.7	3165.7
5.0	3088.8	3094.7	3093.5	3090.1	3082.5	3090.1	3093.5	3094.7	3088.8	3094.7
7.5	2957.9	2951.0	2965.6	2959.1	2963.8	2959.1	2965.6	2951.0	2957.9	2951.0
10.0	2782.1	2769.6	2773.8	2777.1	2774.2	2777.1	2773.8	2769.6	2782.1	2769.6
12.5	2559.3	2554.3	2547.6	2532.0	2554.6	2532.0	2547.6	2554.3	2559.3	2554.3
15.0	2329.8	2322.8	2317.5	2330.1	2338.7	2330.1	2317.5	2322.8	2329.8	2322.8
17.5	2090.4	2100.8	2096.9	2121.8	2109.9	2121.8	2096.9	2100.8	2090.4	2100.8
20.0	1902.9	1908.9	1911.3	1901.5	1905.4	1901.5	1911.3	1908.9	1902.9	1908.9
22.5	1709.7	1704.3	1723.6	1721.9	1731.6	1721.9	1723.6	1704.3	1709.7	1704.3
25.0	1544.8	1535.5	1544.7	1529.4	1516.8	1529.4	1544.7	1535.5	1544.8	1535.5
27.5	1344.0	1335.3	1330.5	1337.2	1345.7	1337.2	1330.5	1335.3	1344.0	1335.3
30.0	1141.8	1135.0	1130.7	1136.1	1149.0	1136.1	1130.7	1135.0	1141.8	1135.0
32.5	938.0	937.2	940.1	937.1	934.5	937.1	940.1	937.2	938.0	937.2
35.0	742.7	744.3	748.9	744.9	741.3	744.9	748.9	744.3	742.7	744.3
37.5	563.8	565.1	568.4	566.1	564.3	566.1	568.4	565.1	563.8	565.1
40.0	414.7	414.6	413.7	415.9	416.0	415.9	413.7	414.6	414.7	414.6
42.5	302.2	301.5	298.8	303.5	304.4	303.5	298.8	301.5	302.2	301.5
45.0	225.1	225.2	223.9	225.1	225.9	225.1	223.9	225.2	225.1	225.2
47.5	171.1	170.9	170.1	171.0	171.4	171.0	170.1	170.9	171.1	170.9
50.0	132.7	131.7	131.3	132.4	132.9	132.4	131.3	131.7	132.7	131.7
52.5	102.7	101.6	101.0	103.0	103.3	103.0	101.0	101.6	102.7	101.6
55.0	77.9	77.3	77.2	78.6	79.1	78.6	77.2	77.3	77.9	77.3
57.5	57.8	57.8	57.6	58.8	58.6	58.8	57.6	57.8	57.8	57.8
60.0	40.3	40.9	40.8	41.3	41.5	41.3	40.8	40.9	40.3	40.9
62.5	25.1	25.0	24.9	25.5	25.5	25.5	24.9	25.0	25.1	25.0
65.0	10.8	10.9	10.8	11.0	11.4	11.0	10.8	10.9	10.8	10.9
67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3
2.5	3169.8	3159.5	3164.1	3159.5	3169.8	3165.7	3162.7
5.0	3093.5	3090.1	3082.5	3090.1	3093.5	3094.7	3088.8
7.5	2965.6	2959.1	2963.8	2959.1	2965.6	2951.0	2957.9
10.0	2773.8	2777.1	2774.2	2777.1	2773.8	2769.6	2782.1
12.5	2547.6	2532.0	2554.6	2532.0	2547.6	2554.3	2559.3
15.0	2317.5	2330.1	2338.7	2330.1	2317.5	2322.8	2329.8
17.5	2096.9	2121.8	2109.9	2121.8	2096.9	2100.8	2090.4
20.0	1911.3	1901.5	1905.4	1901.5	1911.3	1908.9	1902.9
22.5	1723.6	1721.9	1731.6	1721.9	1723.6	1704.3	1709.7
25.0	1544.7	1529.4	1516.8	1529.4	1544.7	1535.5	1544.8
27.5	1330.5	1337.2	1345.7	1337.2	1330.5	1335.3	1344.0
30.0	1130.7	1136.1	1149.0	1136.1	1130.7	1135.0	1141.8

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32.5	940.1	937.1	934.5	937.1	940.1	937.2	938.0
35.0	748.9	744.9	741.3	744.9	748.9	744.3	742.7
37.5	568.4	566.1	564.3	566.1	568.4	565.1	563.8
40.0	413.7	415.9	416.0	415.9	413.7	414.6	414.7
42.5	298.8	303.5	304.4	303.5	298.8	301.5	302.2
45.0	223.9	225.1	225.9	225.1	223.9	225.2	225.1
47.5	170.1	171.0	171.4	171.0	170.1	170.9	171.1
50.0	131.3	132.4	132.9	132.4	131.3	131.7	132.7
52.5	101.0	103.0	103.3	103.0	101.0	101.6	102.7
55.0	77.2	78.6	79.1	78.6	77.2	77.3	77.9
57.5	57.6	58.8	58.6	58.8	57.6	57.8	57.8
60.0	40.8	41.3	41.5	41.3	40.8	40.9	40.3
62.5	24.9	25.5	25.5	25.5	24.9	25.0	25.1
65.0	10.8	11.0	11.4	11.0	10.8	10.9	10.8
67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	932.68	N.A.	39.40
0-30	1629.48	N.A.	68.90
0-40	2095.52	N.A.	88.60
0-60	2352.65	N.A.	99.40
0-80	2366.41	N.A.	100.00
0-90	2366.41	N.A.	100.00
10-90	2081.54	N.A.	88.00
20-40	1162.84	N.A.	49.10
20-50	1347.93	N.A.	57.00
40-70	270.89	N.A.	11.40
60-80	13.76	N.A.	0.60
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	2366.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.88
10-20	647.80
20-30	696.80
30-40	466.04
40-50	185.08
50-60	72.05
60-70	13.76
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

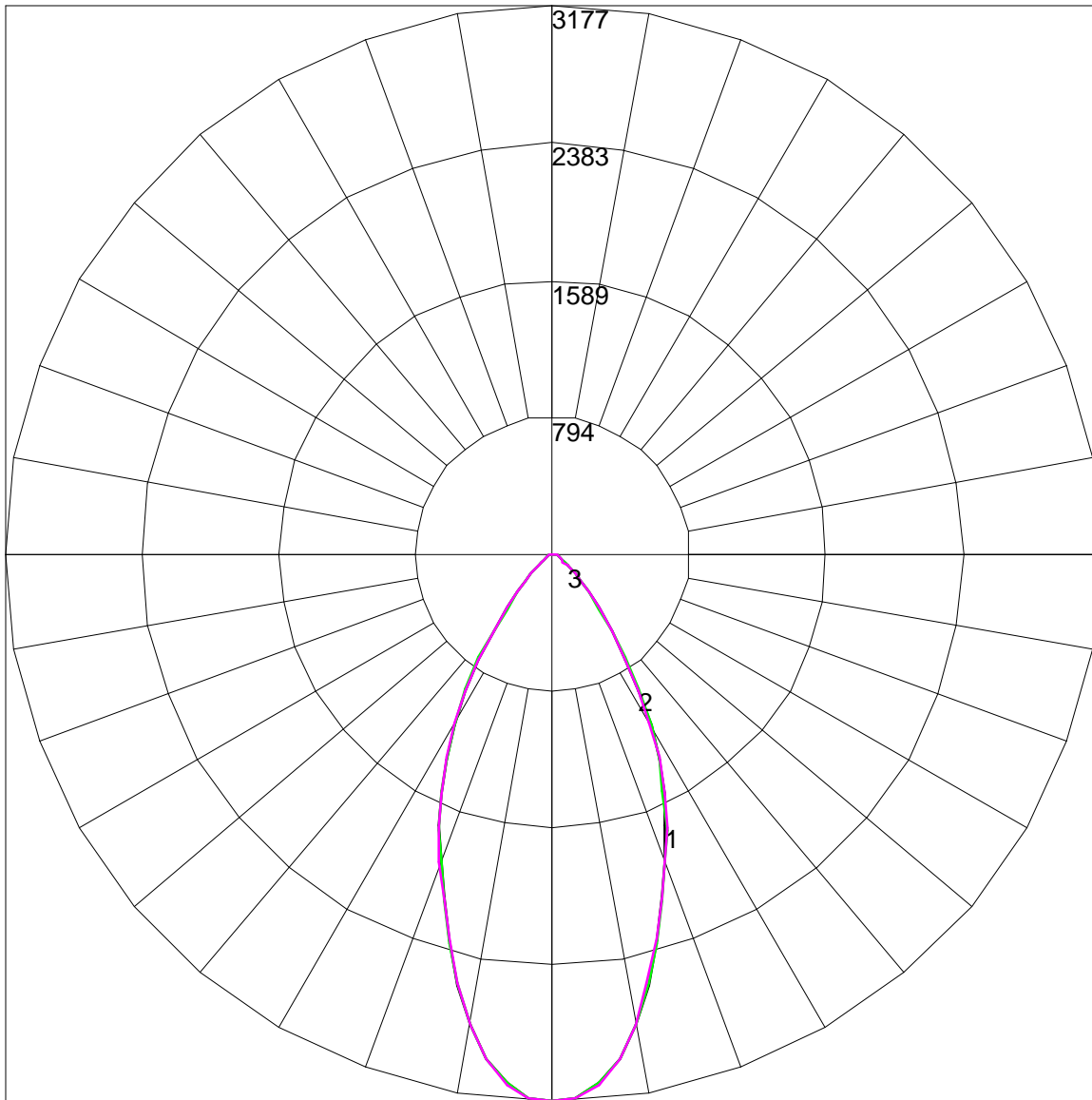
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	50

POLAR GRAPH



Maximum Candela = 3177.3 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)