

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4LEDOS-30L35KEX-AR4224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-005
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1609071034-002-2
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE4LEDOS-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2282
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	27.5
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	40399	39812	40008
55	13766	13372	13262
65	2321	2112	2142
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	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5	2990.6	2994.5	2989.2	2990.6	2989.3	2990.6	2989.2	2994.5	2990.6	2994.5
5.0	2951.6	2944.4	2943.3	2963.7	2957.8	2963.7	2943.3	2944.4	2951.6	2944.4
7.5	2867.9	2871.6	2878.6	2882.1	2867.1	2882.1	2878.6	2871.6	2867.9	2871.6
10.0	2749.1	2757.7	2744.5	2757.9	2767.4	2757.9	2744.5	2757.7	2749.1	2757.7
12.5	2602.6	2601.2	2599.5	2593.7	2599.0	2593.7	2599.5	2601.2	2602.6	2601.2
15.0	2454.7	2442.5	2432.8	2426.3	2450.4	2426.3	2432.8	2442.5	2454.7	2442.5
17.5	2257.5	2265.9	2250.8	2267.2	2270.5	2267.2	2250.8	2265.9	2257.5	2265.9
20.0	2065.6	2072.9	2045.8	2065.8	2062.2	2065.8	2045.8	2072.9	2065.6	2072.9
22.5	1834.0	1833.3	1808.5	1820.5	1822.3	1820.5	1808.5	1833.3	1834.0	1833.3
25.0	1567.3	1565.8	1559.4	1553.5	1562.8	1553.5	1559.4	1565.8	1567.3	1565.8
27.5	1283.1	1291.4	1282.6	1281.1	1284.4	1281.1	1282.6	1291.4	1283.1	1291.4
30.0	1024.0	1025.2	1020.3	1017.2	1012.2	1017.2	1020.3	1025.2	1024.0	1025.2
32.5	781.8	781.5	781.8	774.9	774.2	774.9	781.8	781.5	781.8	781.5
35.0	584.9	582.8	576.7	576.8	581.9	576.8	576.7	582.8	584.9	582.8
37.5	442.1	439.8	433.9	435.6	440.6	435.6	433.9	439.8	442.1	439.8
40.0	347.3	347.8	344.7	344.3	347.0	344.3	344.7	347.8	347.3	347.8
42.5	280.8	280.0	278.0	278.2	279.5	278.2	278.0	280.0	280.8	280.0
45.0	227.2	225.5	223.9	223.6	225.0	223.6	223.9	225.5	227.2	225.5
47.5	179.1	177.2	175.5	175.3	176.9	175.3	175.5	177.2	179.1	177.2
50.0	135.9	134.2	132.6	131.9	133.2	131.9	132.6	134.2	135.9	134.2
52.5	96.1	95.6	94.3	92.9	94.1	92.9	94.3	95.6	96.1	95.6
55.0	62.8	62.0	61.0	60.4	60.5	60.4	61.0	62.0	62.8	62.0
57.5	36.9	36.0	35.0	34.9	35.0	34.9	35.0	36.0	36.9	36.0
60.0	20.5	19.9	19.2	18.9	18.8	18.9	19.2	19.9	20.5	19.9
62.5	13.0	12.8	12.3	11.5	11.8	11.5	12.3	12.8	13.0	12.8
65.0	7.8	7.7	7.1	6.9	7.2	6.9	7.1	7.7	7.8	7.7
67.5	4.3	4.0	3.9	3.3	3.4	3.3	3.9	4.0	4.3	4.0
70.0	1.4	1.6	1.3	0.9	0.9	0.9	1.3	1.6	1.4	1.6
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	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5	2989.2	2990.6	2989.3	2990.6	2989.2	2994.5	2990.6
5.0	2943.3	2963.7	2957.8	2963.7	2943.3	2944.4	2951.6
7.5	2878.6	2882.1	2867.1	2882.1	2878.6	2871.6	2867.9
10.0	2744.5	2757.9	2767.4	2757.9	2744.5	2757.7	2749.1
12.5	2599.5	2593.7	2599.0	2593.7	2599.5	2601.2	2602.6
15.0	2432.8	2426.3	2450.4	2426.3	2432.8	2442.5	2454.7
17.5	2250.8	2267.2	2270.5	2267.2	2250.8	2265.9	2257.5
20.0	2045.8	2065.8	2062.2	2065.8	2045.8	2072.9	2065.6
22.5	1808.5	1820.5	1822.3	1820.5	1808.5	1833.3	1834.0
25.0	1559.4	1553.5	1562.8	1553.5	1559.4	1565.8	1567.3
27.5	1282.6	1281.1	1284.4	1281.1	1282.6	1291.4	1283.1
30.0	1020.3	1017.2	1012.2	1017.2	1020.3	1025.2	1024.0

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32.5	781.8	774.9	774.2	774.9	781.8	781.5	781.8
35.0	576.7	576.8	581.9	576.8	576.7	582.8	584.9
37.5	433.9	435.6	440.6	435.6	433.9	439.8	442.1
40.0	344.7	344.3	347.0	344.3	344.7	347.8	347.3
42.5	278.0	278.2	279.5	278.2	278.0	280.0	280.8
45.0	223.9	223.6	225.0	223.6	223.9	225.5	227.2
47.5	175.5	175.3	176.9	175.3	175.5	177.2	179.1
50.0	132.6	131.9	133.2	131.9	132.6	134.2	135.9
52.5	94.3	92.9	94.1	92.9	94.3	95.6	96.1
55.0	61.0	60.4	60.5	60.4	61.0	62.0	62.8
57.5	35.0	34.9	35.0	34.9	35.0	36.0	36.9
60.0	19.2	18.9	18.8	18.9	19.2	19.9	20.5
62.5	12.3	11.5	11.8	11.5	12.3	12.8	13.0
65.0	7.1	6.9	7.2	6.9	7.1	7.7	7.8
67.5	3.9	3.3	3.4	3.3	3.9	4.0	4.3
70.0	1.3	0.9	0.9	0.9	1.3	1.6	1.4
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	953.60	N.A.	41.80
0-30	1657.84	N.A.	72.60
0-40	2038.97	N.A.	89.30
0-60	2273.89	N.A.	99.60
0-80	2282.29	N.A.	100.00
0-90	2282.29	N.A.	100.00
10-90	2006.76	N.A.	87.90
20-40	1085.37	N.A.	47.60
20-50	1261.28	N.A.	55.30
40-70	243.16	N.A.	10.70
60-80	8.40	N.A.	0.40
70-80	0.16	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	2282.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	275.53
10-20	678.07
20-30	704.24
30-40	381.13
40-50	175.91
50-60	59.02
60-70	8.23
70-80	0.16
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

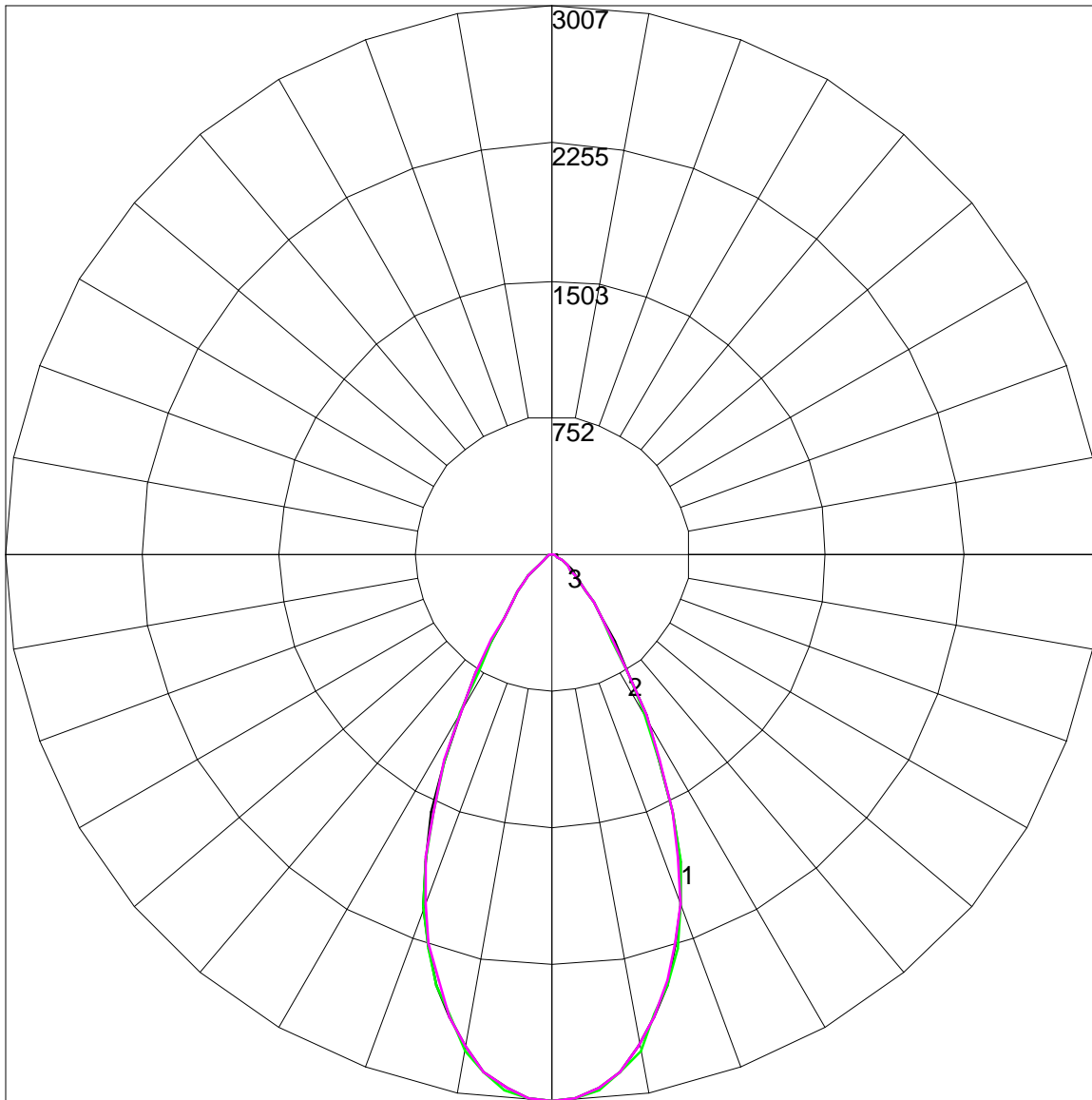
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	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	65	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 = 3006.7 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)