

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE9LEDOS-30L35KEX-AR9223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-007
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/27/2016
[LAB-REF LUMCAT] CRT1609071034-004
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE9LEDOS-30L-35K-EX-AR9223OS-SG-SO
[LUMINAIRE] 9" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 81.3 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	2510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.71 ft (Diameter)
Luminous Width (90-270)	0.71 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	22337	22245	22272
55	4660	4707	4811
65	1112	1157	1228
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	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5	1656.4	1659.4	1660.6	1660.7	1661.9	1660.7	1660.6	1659.4	1656.4	1659.4
5.0	1651.6	1651.4	1652.4	1653.0	1655.8	1653.0	1652.4	1651.4	1651.6	1651.4
7.5	1636.2	1638.2	1638.9	1642.4	1642.1	1642.4	1638.9	1638.2	1636.2	1638.2
10.0	1620.5	1624.1	1619.7	1626.2	1623.9	1626.2	1619.7	1624.1	1620.5	1624.1
12.5	1603.8	1601.5	1604.1	1605.7	1605.0	1605.7	1604.1	1601.5	1603.8	1601.5
15.0	1582.7	1580.2	1576.9	1578.2	1579.6	1578.2	1576.9	1580.2	1582.7	1580.2
17.5	1546.4	1544.8	1545.0	1547.2	1548.5	1547.2	1545.0	1544.8	1546.4	1544.8
20.0	1508.3	1506.7	1507.2	1504.8	1509.3	1504.8	1507.2	1506.7	1508.3	1506.7
22.5	1467.9	1465.8	1466.6	1468.1	1465.8	1468.1	1466.6	1465.8	1467.9	1465.8
25.0	1423.6	1425.3	1425.6	1420.6	1418.1	1420.6	1425.6	1425.3	1423.6	1425.3
27.5	1369.4	1374.4	1372.5	1371.5	1372.6	1371.5	1372.5	1374.4	1369.4	1374.4
30.0	1302.3	1301.1	1298.0	1294.0	1295.8	1294.0	1298.0	1301.1	1302.3	1301.1
32.5	1223.5	1220.5	1213.5	1209.3	1215.0	1209.3	1213.5	1220.5	1223.5	1220.5
35.0	1132.4	1120.7	1108.4	1111.2	1117.7	1111.2	1108.4	1120.7	1132.4	1120.7
37.5	1012.9	1004.1	993.1	991.4	997.0	991.4	993.1	1004.1	1012.9	1004.1
40.0	876.3	869.0	859.5	858.3	867.3	858.3	859.5	869.0	876.3	869.0
42.5	728.3	727.7	722.2	718.0	724.2	718.0	722.2	727.7	728.3	727.7
45.0	581.5	580.9	579.1	577.4	579.8	577.4	579.1	580.9	581.5	580.9
47.5	440.4	445.5	449.0	445.3	440.3	445.3	449.0	445.5	440.4	445.5
50.0	271.7	270.3	273.1	275.0	277.7	275.0	273.1	270.3	271.7	270.3
52.5	157.9	158.2	159.5	161.2	164.0	161.2	159.5	158.2	157.9	158.2
55.0	98.4	99.1	99.4	99.5	101.6	99.5	99.4	99.1	98.4	99.1
57.5	64.1	64.7	64.9	65.1	65.8	65.1	64.9	64.7	64.1	64.7
60.0	44.2	44.4	44.6	44.7	45.1	44.7	44.6	44.4	44.2	44.4
62.5	30.4	31.0	31.2	31.1	31.5	31.1	31.2	31.0	30.4	31.0
65.0	17.3	17.6	18.0	18.2	19.1	18.2	18.0	17.6	17.3	17.6
67.5	4.3	5.9	6.8	7.2	7.0	7.2	6.8	5.9	4.3	5.9
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	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5	1660.6	1660.7	1661.9	1660.7	1660.6	1659.4	1656.4
5.0	1652.4	1653.0	1655.8	1653.0	1652.4	1651.4	1651.6
7.5	1638.9	1642.4	1642.1	1642.4	1638.9	1638.2	1636.2
10.0	1619.7	1626.2	1623.9	1626.2	1619.7	1624.1	1620.5
12.5	1604.1	1605.7	1605.0	1605.7	1604.1	1601.5	1603.8
15.0	1576.9	1578.2	1579.6	1578.2	1576.9	1580.2	1582.7
17.5	1545.0	1547.2	1548.5	1547.2	1545.0	1544.8	1546.4
20.0	1507.2	1504.8	1509.3	1504.8	1507.2	1506.7	1508.3
22.5	1466.6	1468.1	1465.8	1468.1	1466.6	1465.8	1467.9
25.0	1425.6	1420.6	1418.1	1420.6	1425.6	1425.3	1423.6
27.5	1372.5	1371.5	1372.6	1371.5	1372.5	1374.4	1369.4
30.0	1298.0	1294.0	1295.8	1294.0	1298.0	1301.1	1302.3

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CANDELA TABULATION - (Cont.)

32.5	1213.5	1209.3	1215.0	1209.3	1213.5	1220.5	1223.5
35.0	1108.4	1111.2	1117.7	1111.2	1108.4	1120.7	1132.4
37.5	993.1	991.4	997.0	991.4	993.1	1004.1	1012.9
40.0	859.5	858.3	867.3	858.3	859.5	869.0	876.3
42.5	722.2	718.0	724.2	718.0	722.2	727.7	728.3
45.0	579.1	577.4	579.8	577.4	579.1	580.9	581.5
47.5	449.0	445.3	440.3	445.3	449.0	445.5	440.4
50.0	273.1	275.0	277.7	275.0	273.1	270.3	271.7
52.5	159.5	161.2	164.0	161.2	159.5	158.2	157.9
55.0	99.4	99.5	101.6	99.5	99.4	99.1	98.4
57.5	64.9	65.1	65.8	65.1	64.9	64.7	64.1
60.0	44.6	44.7	45.1	44.7	44.6	44.4	44.2
62.5	31.2	31.1	31.5	31.1	31.2	31.0	30.4
65.0	18.0	18.2	19.1	18.2	18.0	17.6	17.3
67.5	6.8	7.2	7.0	7.2	6.8	5.9	4.3
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	601.17	N.A.	24.00
0-30	1253.95	N.A.	50.00
0-40	1941.5	N.A.	77.40
0-60	2490.57	N.A.	99.20
0-80	2509.57	N.A.	100.00
0-90	2509.57	N.A.	100.00
10-90	2352.77	N.A.	93.80
20-40	1340.34	N.A.	53.40
20-50	1782.84	N.A.	71.00
40-70	568.06	N.A.	22.60
60-80	19.00	N.A.	0.80
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	2509.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

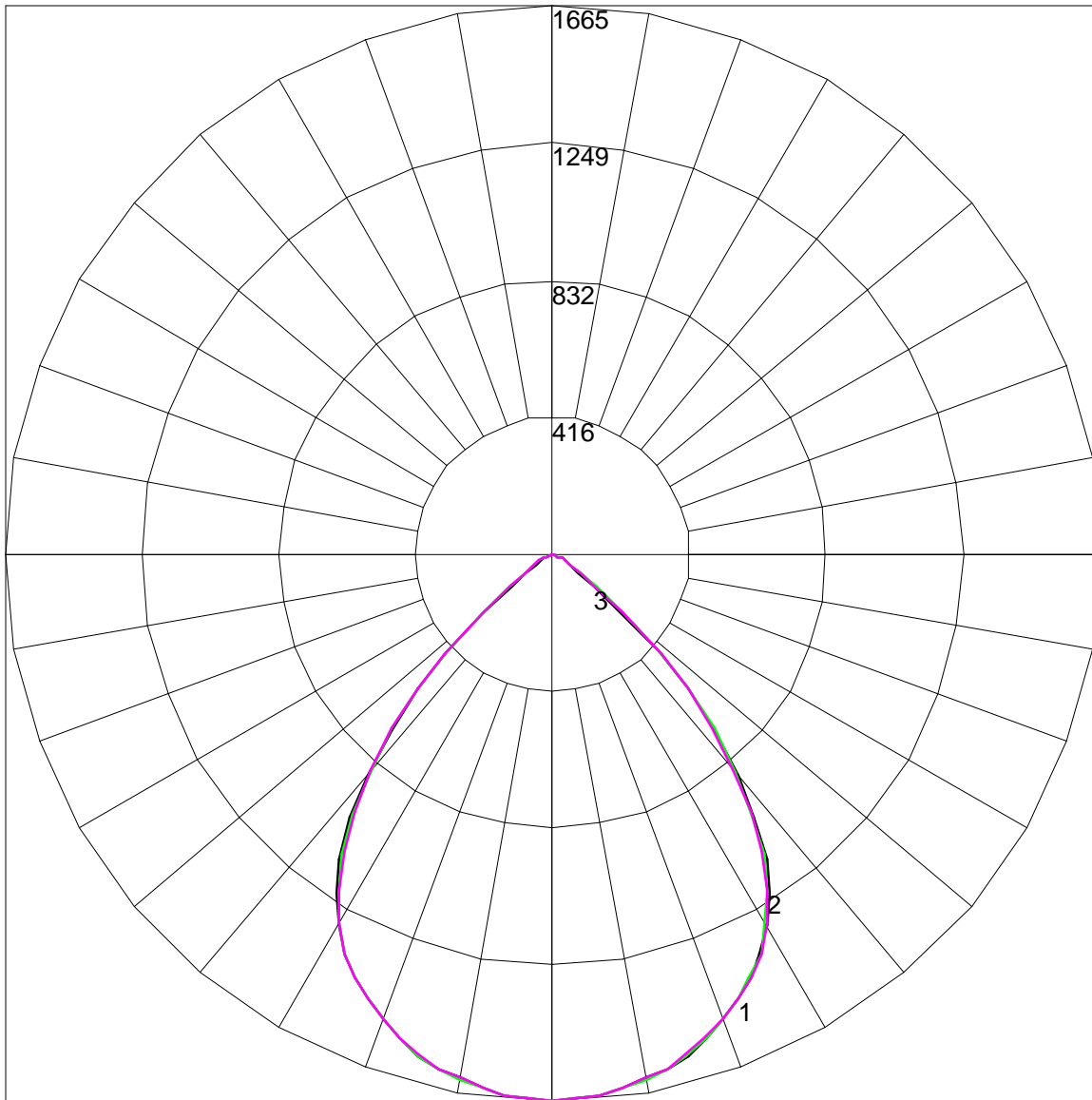
Zone	Lumens
0-10	156.80
10-20	444.37
20-30	652.78
30-40	687.55
40-50	442.51
50-60	106.56
60-70	19.00
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	53	49	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 1664.8 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)