

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE8LEDOS-30L35KEX-AR8223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-006
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/27/2016
[LAB-REF LUMCAT] CRT1609071034-003
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE8LEDOS-30L-35K-EX-AR8223OS-SG-SO
[LUMINAIRE] 8" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 79 DEGREE BEAM ANGLE
[LAMP] N/A
[LAMP CAT] 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	2519
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	27.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	20109	20306	20230
55	3838	3825	3695
65	126	135	93
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	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4
2.5	1828.5	1843.5	1834.5	1844.5	1831.0	1844.5	1834.5	1843.5	1828.5	1843.5
5.0	1821.7	1816.6	1826.2	1832.5	1823.5	1832.5	1826.2	1816.6	1821.7	1816.6
7.5	1806.3	1802.3	1812.6	1812.3	1807.4	1812.3	1812.6	1802.3	1806.3	1802.3
10.0	1797.5	1806.2	1794.9	1802.0	1802.4	1802.0	1794.9	1806.2	1797.5	1806.2
12.5	1784.4	1783.9	1778.0	1771.1	1782.1	1771.1	1778.0	1783.9	1784.4	1783.9
15.0	1753.4	1749.1	1741.7	1753.3	1754.9	1753.3	1741.7	1749.1	1753.4	1749.1
17.5	1715.7	1718.0	1714.5	1727.8	1720.0	1727.8	1714.5	1718.0	1715.7	1718.0
20.0	1675.8	1677.3	1672.9	1690.3	1682.6	1690.3	1672.9	1677.3	1675.8	1677.3
22.5	1623.6	1628.8	1632.4	1622.3	1631.4	1622.3	1632.4	1628.8	1623.6	1628.8
25.0	1576.4	1575.6	1579.4	1572.1	1568.7	1572.1	1579.4	1575.6	1576.4	1575.6
27.5	1494.6	1489.5	1502.5	1495.5	1481.2	1495.5	1502.5	1489.5	1494.6	1489.5
30.0	1416.3	1410.9	1412.2	1399.5	1412.3	1399.5	1412.2	1410.9	1416.3	1410.9
32.5	1306.3	1301.1	1308.3	1306.1	1295.8	1306.1	1308.3	1301.1	1306.3	1301.1
35.0	1206.0	1171.7	1186.2	1177.3	1182.5	1177.3	1186.2	1171.7	1206.0	1171.7
37.5	1047.3	1044.5	1040.3	1035.8	1038.2	1035.8	1040.3	1044.5	1047.3	1044.5
40.0	886.6	877.3	873.6	879.8	882.3	879.8	873.6	877.3	886.6	877.3
42.5	643.9	643.5	637.2	638.4	637.4	638.4	637.2	643.5	643.9	643.5
45.0	399.2	405.7	403.1	405.2	401.6	405.2	403.1	405.7	399.2	405.7
47.5	229.5	233.7	236.3	236.9	231.0	236.9	236.3	233.7	229.5	233.7
50.0	141.6	142.6	143.2	143.8	141.6	143.8	143.2	142.6	141.6	142.6
52.5	93.1	93.3	93.2	92.7	91.1	92.7	93.2	93.3	93.1	93.3
55.0	61.8	62.4	61.6	61.1	59.5	61.1	61.6	62.4	61.8	62.4
57.5	41.8	42.1	41.6	40.9	40.4	40.9	41.6	42.1	41.8	42.1
60.0	27.0	26.8	26.5	25.9	25.1	25.9	26.5	26.8	27.0	26.8
62.5	12.6	13.1	12.6	12.1	11.3	12.1	12.6	13.1	12.6	13.1
65.0	1.5	1.4	1.6	1.5	1.1	1.5	1.6	1.4	1.5	1.4
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	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4
2.5	1834.5	1844.5	1831.0	1844.5	1834.5	1843.5	1828.5
5.0	1826.2	1832.5	1823.5	1832.5	1826.2	1816.6	1821.7
7.5	1812.6	1812.3	1807.4	1812.3	1812.6	1802.3	1806.3
10.0	1794.9	1802.0	1802.4	1802.0	1794.9	1806.2	1797.5
12.5	1778.0	1771.1	1782.1	1771.1	1778.0	1783.9	1784.4
15.0	1741.7	1753.3	1754.9	1753.3	1741.7	1749.1	1753.4
17.5	1714.5	1727.8	1720.0	1727.8	1714.5	1718.0	1715.7
20.0	1672.9	1690.3	1682.6	1690.3	1672.9	1677.3	1675.8
22.5	1632.4	1622.3	1631.4	1622.3	1632.4	1628.8	1623.6
25.0	1579.4	1572.1	1568.7	1572.1	1579.4	1575.6	1576.4
27.5	1502.5	1495.5	1481.2	1495.5	1502.5	1489.5	1494.6
30.0	1412.2	1399.5	1412.3	1399.5	1412.2	1410.9	1416.3

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CANDELA TABULATION - (Cont.)

32.5	1308.3	1306.1	1295.8	1306.1	1308.3	1301.1	1306.3
35.0	1186.2	1177.3	1182.5	1177.3	1186.2	1171.7	1206.0
37.5	1040.3	1035.8	1038.2	1035.8	1040.3	1044.5	1047.3
40.0	873.6	879.8	882.3	879.8	873.6	877.3	886.6
42.5	637.2	638.4	637.4	638.4	637.2	643.5	643.9
45.0	403.1	405.2	401.6	405.2	403.1	405.7	399.2
47.5	236.3	236.9	231.0	236.9	236.3	233.7	229.5
50.0	143.2	143.8	141.6	143.8	143.2	142.6	141.6
52.5	93.2	92.7	91.1	92.7	93.2	93.3	93.1
55.0	61.6	61.1	59.5	61.1	61.6	62.4	61.8
57.5	41.6	40.9	40.4	40.9	41.6	42.1	41.8
60.0	26.5	25.9	25.1	25.9	26.5	26.8	27.0
62.5	12.6	12.1	11.3	12.1	12.6	13.1	12.6
65.0	1.6	1.5	1.1	1.5	1.6	1.4	1.5
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	666.81	N.A.	26.50
0-30	1385.36	N.A.	55.00
0-40	2112.53	N.A.	83.90
0-60	2512.61	N.A.	99.70
0-80	2519.16	N.A.	100.00
0-90	2519.16	N.A.	100.00
10-90	2345.86	N.A.	93.10
20-40	1445.71	N.A.	57.40
20-50	1783.9	N.A.	70.80
40-70	406.63	N.A.	16.10
60-80	6.55	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	2519.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

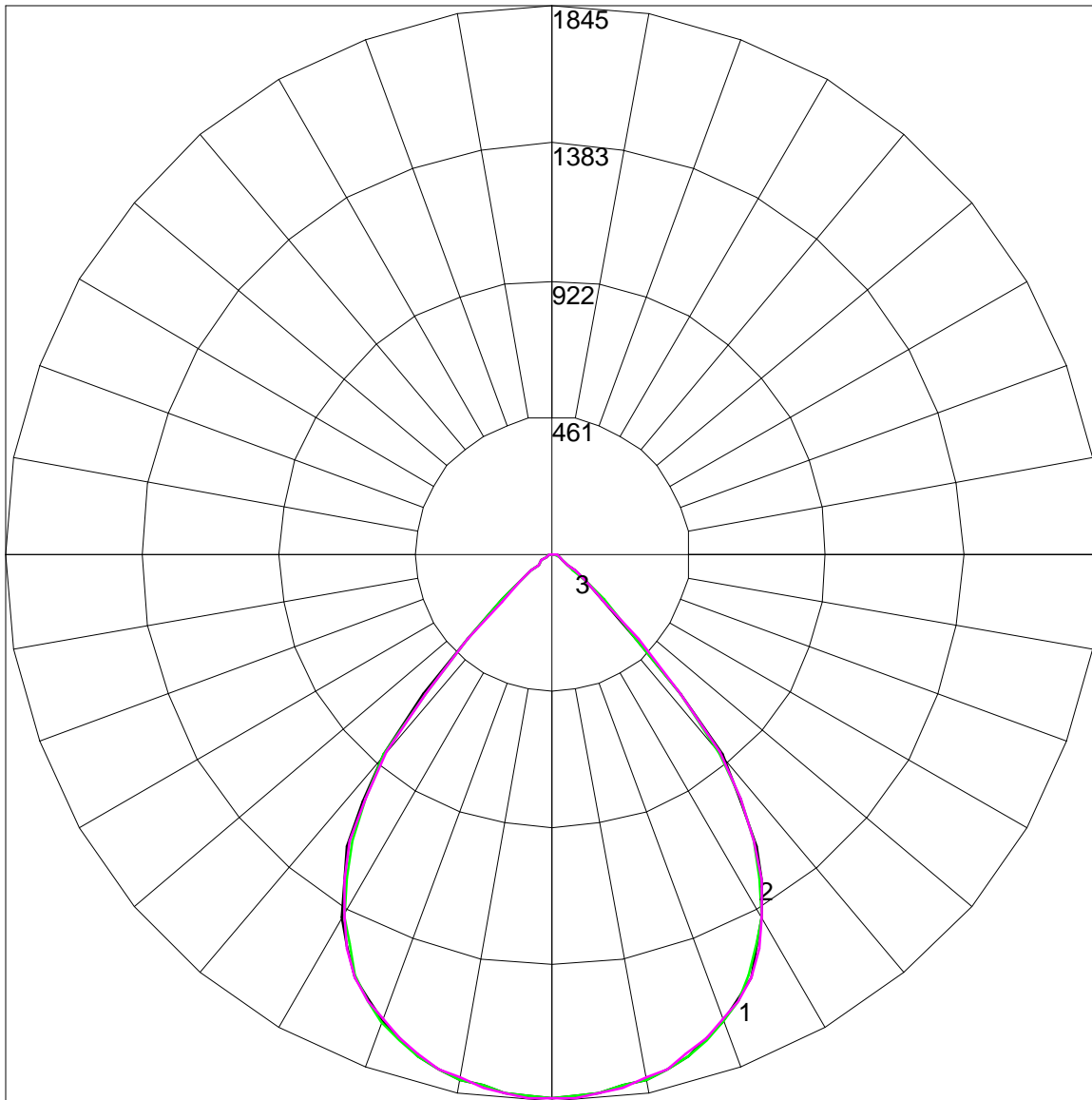
Zone	Lumens
0-10	173.30
10-20	493.52
20-30	718.55
30-40	727.17
40-50	338.18
50-60	61.90
60-70	6.55
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	79	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	61	70	65	61	68	64	61	59
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	66	55	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 1844.5 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)