

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW5LEDOS-30L35KEX-AR5923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-013
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-002
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW5LEDOS-30L-35K-EX-AR5923OS-SG-SK
[LUMINAIRE] 5" Aperture Recessed WallWasher Downlight
[TRIM] Semi-diffuse anodized cone, regressed Linear Prism Lens
[OTHER] Perpendicular Orientation
[LAMP] N/A (Gen3)
[LAMPCAT] N/A
[OTHER] Total Luminaire Wattage is approximate
[OTHER] CCT Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946
[OTHER] This report updated by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	27.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.94
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	67817	43898	28134
55	53062	23466	10840
65	52455	12636	661
75	58811	6598	0
85	20573	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	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7
2.5	1851.2	1847.3	1842.8	1835.1	1824.7	1816.2	1804.5	1799.1	1794.9	1799.1
5.0	1854.8	1850.1	1836.2	1821.1	1801.4	1779.9	1757.3	1741.6	1732.6	1741.6
7.5	1852.7	1842.7	1821.1	1790.2	1765.5	1734.1	1697.6	1667.0	1653.4	1667.0
10.0	1830.0	1820.3	1791.8	1747.9	1711.0	1671.6	1617.6	1584.0	1563.6	1584.0
12.5	1799.0	1785.8	1747.3	1690.7	1649.4	1600.5	1540.6	1485.5	1461.1	1485.5
15.0	1755.8	1737.9	1686.8	1624.4	1574.0	1515.6	1443.5	1380.6	1351.0	1380.6
17.5	1700.9	1674.8	1614.7	1541.6	1488.7	1420.7	1337.8	1260.8	1225.1	1260.8
20.0	1630.6	1601.5	1529.3	1444.4	1386.2	1316.6	1219.5	1132.2	1088.8	1132.2
22.5	1547.6	1514.5	1436.5	1343.0	1278.5	1204.5	1099.9	1002.4	953.6	1002.4
25.0	1467.5	1428.5	1338.3	1235.0	1168.0	1089.1	980.4	875.3	827.8	875.3
27.5	1374.5	1331.5	1230.4	1121.8	1056.6	977.6	860.2	753.2	706.1	753.2
30.0	1286.6	1230.9	1117.5	998.7	923.4	858.9	742.9	635.3	588.9	635.3
32.5	1183.4	1115.6	995.0	852.0	777.6	723.0	634.9	526.1	481.6	526.1
35.0	1072.3	994.5	862.8	707.7	643.7	594.9	529.1	427.4	387.1	427.4
37.5	954.8	868.6	720.2	580.4	533.8	484.7	421.3	338.7	302.5	338.7
40.0	833.9	752.6	594.2	485.2	458.1	401.8	331.1	260.1	231.5	260.1
42.5	719.5	649.0	485.6	398.6	343.3	330.0	255.3	196.7	172.2	196.7
45.0	617.8	552.1	399.9	300.1	256.3	240.2	193.9	144.6	125.2	144.6
47.5	534.2	467.2	327.5	227.7	198.2	173.8	144.9	104.7	89.4	104.7
50.0	470.7	398.4	261.6	180.3	154.1	129.6	101.0	74.0	59.4	74.0
52.5	425.0	348.3	209.3	138.4	109.9	92.2	67.7	48.8	34.7	48.8
55.0	392.1	311.6	173.4	102.3	80.1	61.8	44.9	27.1	15.6	27.1
57.5	364.6	282.9	143.4	75.6	55.8	42.3	27.7	11.0	4.4	11.0
60.0	334.9	254.8	115.6	50.8	33.5	24.8	13.3	1.2	0.0	1.2
62.5	308.4	227.5	89.6	28.7	15.4	11.1	3.9	0.0	0.0	0.0
65.0	285.6	204.7	68.8	13.1	3.6	2.2	0.0	0.0	0.0	0.0
67.5	266.0	187.4	54.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
70.0	249.2	170.8	42.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5	226.2	149.2	31.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
75.0	196.1	123.5	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	160.3	96.2	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	123.9	65.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	69.4	33.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	23.1	7.9	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	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7	1831.7
2.5	1804.5	1816.2	1824.7	1835.1	1842.8	1847.3	1851.2
5.0	1757.3	1779.9	1801.4	1821.1	1836.2	1850.1	1854.8
7.5	1697.6	1734.1	1765.5	1790.2	1821.1	1842.7	1852.7
10.0	1617.6	1671.6	1711.0	1747.9	1791.8	1820.3	1830.0
12.5	1540.6	1600.5	1649.4	1690.7	1747.3	1785.8	1799.0
15.0	1443.5	1515.6	1574.0	1624.4	1686.8	1737.9	1755.8
17.5	1337.8	1420.7	1488.7	1541.6	1614.7	1674.8	1700.9
20.0	1219.5	1316.6	1386.2	1444.4	1529.3	1601.5	1630.6
22.5	1099.9	1204.5	1278.5	1343.0	1436.5	1514.5	1547.6
25.0	980.4	1089.1	1168.0	1235.0	1338.3	1428.5	1467.5
27.5	860.2	977.6	1056.6	1121.8	1230.4	1331.5	1374.5
30.0	742.9	858.9	923.4	998.7	1117.5	1230.9	1286.6

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32.5	634.9	723.0	777.6	852.0	995.0	1115.6	1183.4
35.0	529.1	594.9	643.7	707.7	862.8	994.5	1072.3
37.5	421.3	484.7	533.8	580.4	720.2	868.6	954.8
40.0	331.1	401.8	458.1	485.2	594.2	752.6	833.9
42.5	255.3	330.0	343.3	398.6	485.6	649.0	719.5
45.0	193.9	240.2	256.3	300.1	399.9	552.1	617.8
47.5	144.9	173.8	198.2	227.7	327.5	467.2	534.2
50.0	101.0	129.6	154.1	180.3	261.6	398.4	470.7
52.5	67.7	92.2	109.9	138.4	209.3	348.3	425.0
55.0	44.9	61.8	80.1	102.3	173.4	311.6	392.1
57.5	27.7	42.3	55.8	75.6	143.4	282.9	364.6
60.0	13.3	24.8	33.5	50.8	115.6	254.8	334.9
62.5	3.9	11.1	15.4	28.7	89.6	227.5	308.4
65.0	0.0	2.2	3.6	13.1	68.8	204.7	285.6
67.5	0.0	0.0	0.0	5.4	54.4	187.4	266.0
70.0	0.0	0.0	0.0	2.3	42.9	170.8	249.2
72.5	0.0	0.0	0.0	0.1	31.6	149.2	226.2
75.0	0.0	0.0	0.0	0.0	22.0	123.5	196.1
77.5	0.0	0.0	0.0	0.0	13.8	96.2	160.3
80.0	0.0	0.0	0.0	0.0	7.3	65.5	123.9
82.5	0.0	0.0	0.0	0.0	1.5	33.2	69.4
85.0	0.0	0.0	0.0	0.0	0.0	7.9	23.1
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	604.73	N.A.	30.00
0-30	1133.67	N.A.	56.20
0-40	1562.93	N.A.	77.50
0-60	1923.39	N.A.	95.30
0-80	2012.25	N.A.	99.70
0-90	2017.55	N.A.	100.00
10-90	1848.85	N.A.	91.60
20-40	958.20	N.A.	47.50
20-50	1202.26	N.A.	59.60
40-70	417.50	N.A.	20.70
60-80	88.85	N.A.	4.40
70-80	31.82	N.A.	1.60
80-90	5.30	N.A.	0.30
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	2017.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.70
10-20	436.04
20-30	528.93
30-40	429.26
40-50	244.06
50-60	116.40
60-70	57.04
70-80	31.82
80-90	5.30
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

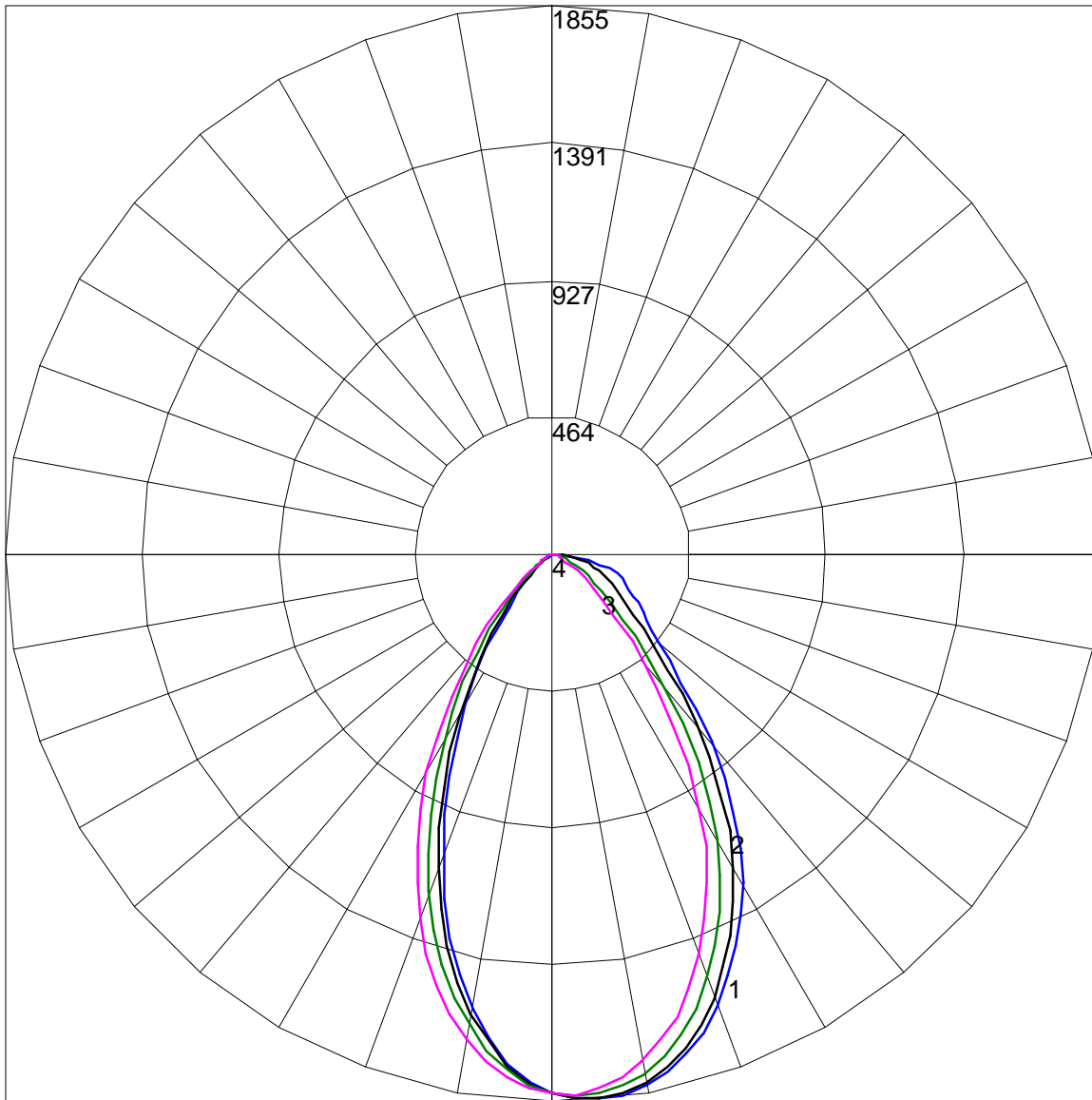
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

POLAR GRAPH



Maximum Candela = 1854.8 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)
3 - Vertical Plane Through Horizontal Angles (45 - 225)
4 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)