

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW8LEDOS-30L35KEX-AR8923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-015
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-001
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW8LEDOS-30L-35K-EX-AR8923OS-SG-SK
[LUMINAIRE] 8" 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	1910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	27.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
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	53190	31458	13299
55	43440	18295	5030
65	44122	12516	700
75	40241	6689	0
85	20435	2003	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	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4
2.5	1443.1	1442.4	1429.4	1408.2	1379.8	1350.9	1321.5	1302.6	1289.8	1302.6
5.0	1486.9	1483.2	1462.9	1424.4	1372.4	1310.9	1251.9	1208.5	1189.2	1208.5
7.5	1505.6	1505.1	1483.7	1434.0	1357.6	1264.8	1172.3	1103.3	1074.5	1103.3
10.0	1513.5	1507.6	1485.5	1429.9	1334.7	1207.8	1081.1	992.0	952.0	992.0
12.5	1506.4	1498.2	1471.9	1419.8	1302.4	1146.2	988.1	872.8	824.7	872.8
15.0	1518.3	1498.9	1452.3	1395.5	1263.4	1077.1	886.6	750.7	696.0	750.7
17.5	1524.6	1497.5	1422.5	1358.1	1215.6	1001.1	780.5	630.2	572.8	630.2
20.0	1528.9	1489.3	1395.4	1308.7	1161.3	918.4	674.4	516.4	460.9	516.4
22.5	1525.5	1478.8	1364.6	1249.7	1097.6	833.3	572.2	414.1	360.7	414.1
25.0	1516.7	1461.4	1321.7	1183.3	1026.3	746.8	476.3	325.5	278.2	325.5
27.5	1502.8	1431.1	1264.2	1101.9	936.3	654.8	387.2	250.4	211.0	250.4
30.0	1473.1	1385.4	1191.4	994.2	825.9	553.6	309.2	190.3	161.1	190.3
32.5	1434.4	1326.0	1114.8	878.6	719.6	455.6	239.2	145.4	128.4	145.4
35.0	1387.3	1262.4	1020.8	776.8	625.6	373.1	178.8	114.2	98.8	114.2
37.5	1328.0	1192.7	918.5	683.4	556.4	304.1	132.2	85.9	71.0	85.9
40.0	1247.6	1126.0	820.1	614.3	470.8	249.7	98.8	61.6	46.8	61.6
42.5	1160.9	1048.9	720.6	504.9	361.2	191.9	77.0	40.8	27.2	40.8
45.0	1055.9	941.0	624.5	381.2	264.0	137.8	58.8	23.4	13.2	23.4
47.5	945.9	823.7	522.4	286.8	207.3	98.7	42.0	10.4	3.0	10.4
50.0	849.2	718.4	419.2	232.3	151.6	73.7	27.3	2.1	1.3	2.1
52.5	765.7	634.5	342.5	173.3	105.4	52.2	14.7	0.7	0.3	0.7
55.0	699.5	572.7	294.6	127.4	81.0	36.6	4.9	0.0	0.0	0.0
57.5	655.1	528.2	258.1	99.5	56.8	25.4	0.1	0.0	0.0	0.0
60.0	613.1	490.9	226.1	73.4	39.7	15.3	0.0	0.0	0.0	0.0
62.5	571.1	451.5	187.7	51.0	23.7	6.5	0.0	0.0	0.0	0.0
65.0	523.5	407.5	148.5	29.9	8.3	0.1	0.0	0.0	0.0	0.0
67.5	477.5	361.8	113.1	15.5	0.0	0.0	0.0	0.0	0.0	0.0
70.0	427.4	311.8	88.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	355.9	256.3	67.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0
75.0	292.4	203.1	48.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5	233.0	149.2	33.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80.0	159.8	101.7	21.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5	106.9	61.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	50.0	27.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	10.6	5.2	0.8	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	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4	1378.4
2.5	1321.5	1350.9	1379.8	1408.2	1429.4	1442.4	1443.1
5.0	1251.9	1310.9	1372.4	1424.4	1462.9	1483.2	1486.9
7.5	1172.3	1264.8	1357.6	1434.0	1483.7	1505.1	1505.6
10.0	1081.1	1207.8	1334.7	1429.9	1485.5	1507.6	1513.5
12.5	988.1	1146.2	1302.4	1419.8	1471.9	1498.2	1506.4
15.0	886.6	1077.1	1263.4	1395.5	1452.3	1498.9	1518.3
17.5	780.5	1001.1	1215.6	1358.1	1422.5	1497.5	1524.6
20.0	674.4	918.4	1161.3	1308.7	1395.4	1489.3	1528.9
22.5	572.2	833.3	1097.6	1249.7	1364.6	1478.8	1525.5
25.0	476.3	746.8	1026.3	1183.3	1321.7	1461.4	1516.7
27.5	387.2	654.8	936.3	1101.9	1264.2	1431.1	1502.8
30.0	309.2	553.6	825.9	994.2	1191.4	1385.4	1473.1

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32.5	239.2	455.6	719.6	878.6	1114.8	1326.0	1434.4
35.0	178.8	373.1	625.6	776.8	1020.8	1262.4	1387.3
37.5	132.2	304.1	556.4	683.4	918.5	1192.7	1328.0
40.0	98.8	249.7	470.8	614.3	820.1	1126.0	1247.6
42.5	77.0	191.9	361.2	504.9	720.6	1048.9	1160.9
45.0	58.8	137.8	264.0	381.2	624.5	941.0	1055.9
47.5	42.0	98.7	207.3	286.8	522.4	823.7	945.9
50.0	27.3	73.7	151.6	232.3	419.2	718.4	849.2
52.5	14.7	52.2	105.4	173.3	342.5	634.5	765.7
55.0	4.9	36.6	81.0	127.4	294.6	572.7	699.5
57.5	0.1	25.4	56.8	99.5	258.1	528.2	655.1
60.0	0.0	15.3	39.7	73.4	226.1	490.9	613.1
62.5	0.0	6.5	23.7	51.0	187.7	451.5	571.1
65.0	0.0	0.1	8.3	29.9	148.5	407.5	523.5
67.5	0.0	0.0	0.0	15.5	113.1	361.8	477.5
70.0	0.0	0.0	0.0	11.0	88.9	311.8	427.4
72.5	0.0	0.0	0.0	7.3	67.0	256.3	355.9
75.0	0.0	0.0	0.0	4.5	48.6	203.1	292.4
77.5	0.0	0.0	0.0	2.4	33.8	149.2	233.0
80.0	0.0	0.0	0.0	0.9	21.6	101.7	159.8
82.5	0.0	0.0	0.0	0.0	11.9	61.9	106.9
85.0	0.0	0.0	0.0	0.0	4.9	27.6	50.0
87.5	0.0	0.0	0.0	0.0	0.8	5.2	10.6
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	457.12	N.A.	23.90
0-30	882.14	N.A.	46.20
0-40	1281.37	N.A.	67.10
0-60	1739.23	N.A.	91.00
0-80	1900.35	N.A.	99.50
0-90	1910.48	N.A.	100.00
10-90	1783.3	N.A.	93.30
20-40	824.24	N.A.	43.10
20-50	1112.87	N.A.	58.30
40-70	565.38	N.A.	29.60
60-80	161.12	N.A.	8.40
70-80	53.61	N.A.	2.80
80-90	10.13	N.A.	0.50
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	1910.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.18
10-20	329.94
20-30	425.02
30-40	399.22
40-50	288.62
50-60	169.24
60-70	107.52
70-80	53.61
80-90	10.13
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

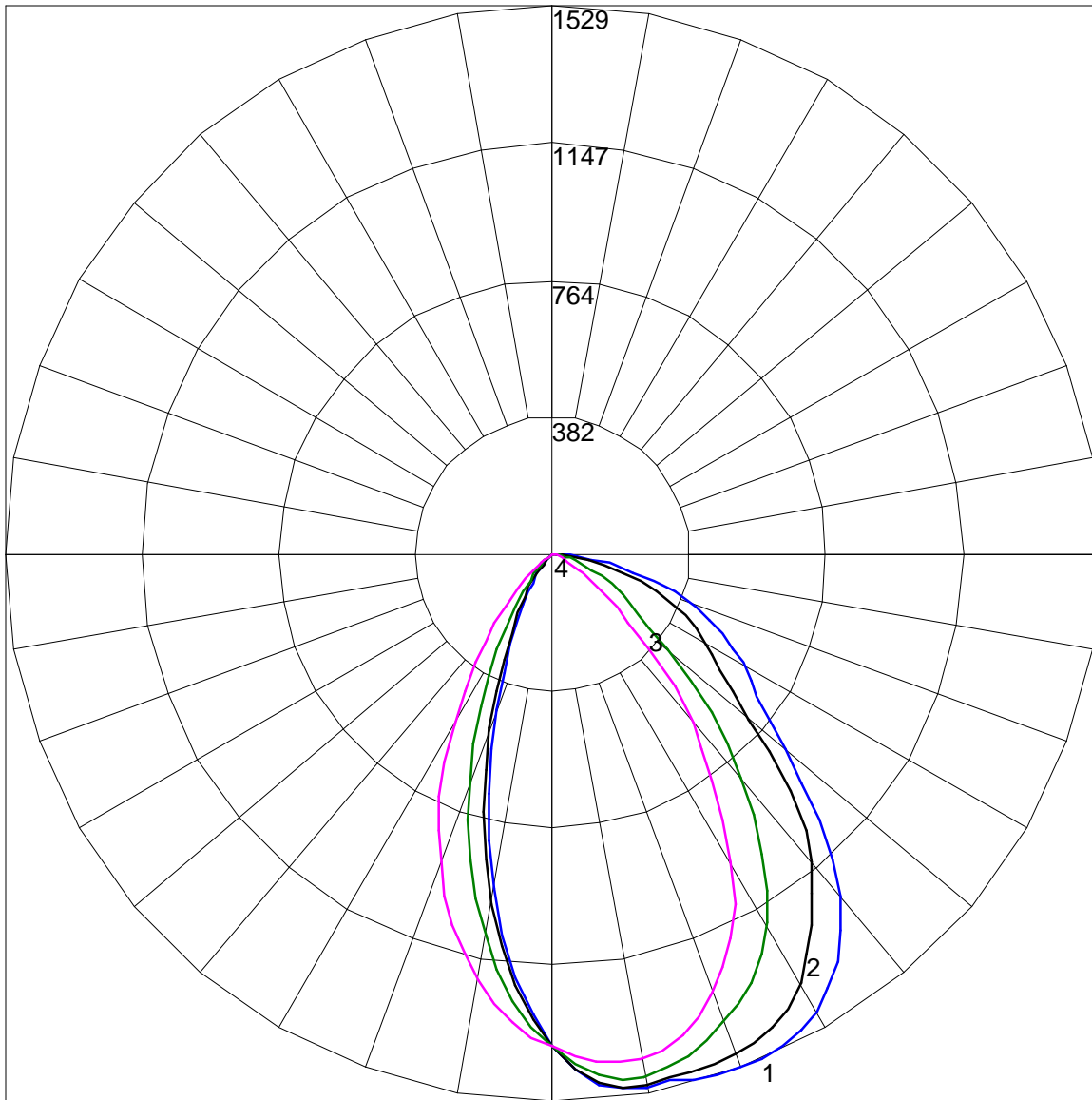
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

POLAR GRAPH



Maximum Candela = 1528.9 Located At Horizontal Angle = 0, Vertical Angle = 20
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)