

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-30L35KEX-CA0294OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-016
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 12/12/2016
[LAB-REF LUMCAT] CRT1611041146-006A
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4SQLEDOS-30L-35K-EX-CA0294OS-SG-SK
[LUMINAIRE] 4" Square, 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	1758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	27.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4SQLEDOS-30L35KEX-CA0294OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	89895	59440	40405
55	104799	39578	27313
65	117970	33950	21571
75	97789	27932	5897
85	28976	15443	3025

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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	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2
2.5	1368.4	1370.5	1369.1	1370.2	1371.2	1373.7	1374.9	1372.4	1373.2	1372.4
5.0	1363.0	1362.7	1364.2	1362.0	1364.0	1366.9	1363.3	1358.0	1356.4	1358.0
7.5	1361.5	1358.1	1355.4	1350.8	1352.7	1352.7	1338.7	1329.3	1327.0	1329.3
10.0	1360.2	1352.7	1340.9	1322.8	1317.8	1319.7	1305.4	1287.9	1282.1	1287.9
12.5	1346.9	1342.1	1317.7	1284.9	1272.1	1272.5	1258.6	1236.9	1223.8	1236.9
15.0	1318.0	1308.3	1284.2	1232.4	1211.9	1213.2	1199.6	1173.1	1154.3	1173.1
17.5	1264.3	1262.2	1234.6	1165.3	1135.3	1137.1	1120.7	1094.0	1071.5	1094.0
20.0	1195.0	1191.3	1167.2	1088.2	1050.9	1051.8	1037.1	1009.2	982.7	1009.2
22.5	1120.6	1113.5	1088.9	1012.9	967.3	965.2	946.5	917.7	888.0	917.7
25.0	1026.0	1029.0	1004.2	936.8	884.3	877.9	855.4	822.5	793.4	822.5
27.5	927.8	933.8	915.9	846.6	777.9	782.6	759.4	726.8	696.2	726.8
30.0	830.3	833.4	824.4	728.9	653.8	667.7	667.2	635.4	602.6	635.4
32.5	736.8	737.9	722.0	610.8	538.5	552.5	571.6	546.4	517.4	546.4
35.0	650.8	645.8	610.6	509.4	447.6	456.2	471.1	463.4	445.7	463.4
37.5	579.3	565.0	509.9	429.3	385.8	378.4	386.3	389.3	389.4	389.3
40.0	521.9	497.5	424.3	367.0	313.8	319.9	314.8	334.2	348.2	334.2
42.5	481.0	444.6	357.7	296.8	251.1	254.9	256.6	293.0	312.3	293.0
45.0	458.1	403.9	302.9	238.2	205.9	204.5	213.0	256.6	272.8	256.6
47.5	452.1	375.6	254.5	200.2	181.4	166.9	176.0	220.8	236.5	220.8
50.0	450.2	360.5	213.7	170.1	147.8	142.4	143.7	187.4	205.3	187.4
52.5	443.8	349.1	185.4	138.8	124.3	114.3	119.7	159.7	179.2	159.7
55.0	433.2	334.0	163.6	118.3	112.9	94.7	100.9	137.5	158.4	137.5
57.5	419.5	316.1	145.5	103.3	99.5	81.4	83.7	118.8	140.4	118.8
60.0	402.2	295.9	129.7	87.3	89.3	66.6	69.0	102.6	128.2	102.6
62.5	381.9	274.4	116.5	74.1	76.0	54.1	57.9	90.2	121.6	90.2
65.0	359.3	250.8	103.4	62.3	65.7	42.6	47.7	78.8	112.0	78.8
67.5	321.2	224.4	90.7	53.7	61.1	32.6	38.7	68.6	104.9	68.6
70.0	278.6	190.6	78.3	44.4	39.6	22.5	30.5	59.7	95.8	59.7
72.5	235.7	158.1	65.4	32.3	17.0	14.1	23.3	49.1	80.5	49.1
75.0	182.4	122.6	52.1	24.2	11.0	10.3	16.9	35.0	57.5	35.0
77.5	135.0	90.2	39.2	17.8	8.1	8.7	11.3	21.2	33.4	21.2
80.0	97.4	62.4	27.2	13.1	6.3	7.9	7.5	10.6	12.8	10.6
82.5	54.7	36.2	17.6	9.1	4.0	7.4	6.0	5.6	5.0	5.6
85.0	18.2	13.8	9.7	6.0	1.9	6.5	4.9	4.0	3.4	4.0
87.5	2.3	3.1	4.7	3.7	1.0	4.3	3.0	2.2	2.2	2.2
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	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2	1371.2
2.5	1374.9	1373.7	1371.2	1370.2	1369.1	1370.5	1368.4
5.0	1363.3	1366.9	1364.0	1362.0	1364.2	1362.7	1363.0
7.5	1338.7	1352.7	1352.7	1350.8	1355.4	1358.1	1361.5
10.0	1305.4	1319.7	1317.8	1322.8	1340.9	1352.7	1360.2
12.5	1258.6	1272.5	1272.1	1284.9	1317.7	1342.1	1346.9
15.0	1199.6	1213.2	1211.9	1232.4	1284.2	1308.3	1318.0
17.5	1120.7	1137.1	1135.3	1165.3	1234.6	1262.2	1264.3
20.0	1037.1	1051.8	1050.9	1088.2	1167.2	1191.3	1195.0
22.5	946.5	965.2	967.3	1012.9	1088.9	1113.5	1120.6
25.0	855.4	877.9	884.3	936.8	1004.2	1029.0	1026.0
27.5	759.4	782.6	777.9	846.6	915.9	933.8	927.8
30.0	667.2	667.7	653.8	728.9	824.4	833.4	830.3

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CANDELA TABULATION - (Cont.)

32.5	571.6	552.5	538.5	610.8	722.0	737.9	736.8
35.0	471.1	456.2	447.6	509.4	610.6	645.8	650.8
37.5	386.3	378.4	385.8	429.3	509.9	565.0	579.3
40.0	314.8	319.9	313.8	367.0	424.3	497.5	521.9
42.5	256.6	254.9	251.1	296.8	357.7	444.6	481.0
45.0	213.0	204.5	205.9	238.2	302.9	403.9	458.1
47.5	176.0	166.9	181.4	200.2	254.5	375.6	452.1
50.0	143.7	142.4	147.8	170.1	213.7	360.5	450.2
52.5	119.7	114.3	124.3	138.8	185.4	349.1	443.8
55.0	100.9	94.7	112.9	118.3	163.6	334.0	433.2
57.5	83.7	81.4	99.5	103.3	145.5	316.1	419.5
60.0	69.0	66.6	89.3	87.3	129.7	295.9	402.2
62.5	57.9	54.1	76.0	74.1	116.5	274.4	381.9
65.0	47.7	42.6	65.7	62.3	103.4	250.8	359.3
67.5	38.7	32.6	61.1	53.7	90.7	224.4	321.2
70.0	30.5	22.5	39.6	44.4	78.3	190.6	278.6
72.5	23.3	14.1	17.0	32.3	65.4	158.1	235.7
75.0	16.9	10.3	11.0	24.2	52.1	122.6	182.4
77.5	11.3	8.7	8.1	17.8	39.2	90.2	135.0
80.0	7.5	7.9	6.3	13.1	27.2	62.4	97.4
82.5	6.0	7.4	4.0	9.1	17.6	36.2	54.7
85.0	4.9	6.5	1.9	6.0	9.7	13.8	18.2
87.5	3.0	4.3	1.0	3.7	4.7	3.1	2.3
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Zone	Lumens	%Lamp	%Fixt
0-20	471.51	N.A.	26.80
0-30	887.40	N.A.	50.50
0-40	1216.05	N.A.	69.20
0-60	1585.68	N.A.	90.20
0-80	1748.32	N.A.	99.40
0-90	1758.26	N.A.	100.00
10-90	1629.46	N.A.	92.70
20-40	744.54	N.A.	42.30
20-50	960.92	N.A.	54.70
40-70	479.22	N.A.	27.30
60-80	162.63	N.A.	9.20
70-80	53.05	N.A.	3.00
80-90	9.95	N.A.	0.60
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	1758.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.80
10-20	342.71
20-30	415.89
30-40	328.65
40-50	216.38
50-60	153.26
60-70	109.58
70-80	53.05
80-90	9.95
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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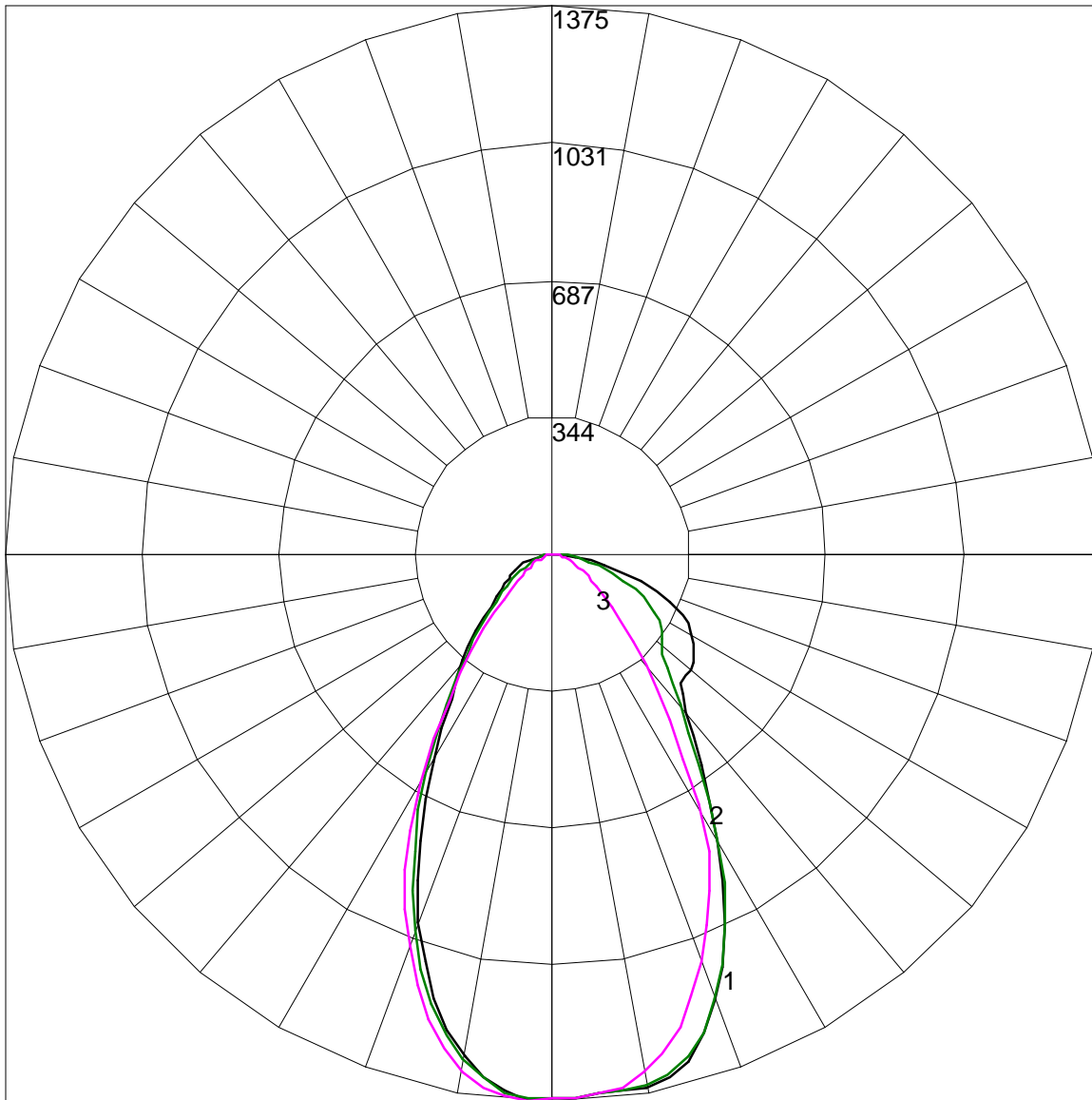
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	72	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 1374.9 Located At Horizontal Angle = 135, Vertical Angle = 2.5

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

2 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)

3 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)