

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-30L35KEX-CA0396OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-018
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 12/12/2016
[LAB-REF LUMCAT] CRT1611041146-003A
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW6SQLEDOS-30L-35K-EX-CA0396OS-SG-SK
[LUMINAIRE] 6" 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	1678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.92 ft
Luminous Width (90-270)	4.58 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW6SQLEDOS-30L35KEX-CA0396OSSGSK.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	492	431	249
55	616	270	164
65	817	248	121
75	781	229	88
85	261	119	33

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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	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4
2.5	1305.3	1298.8	1283.1	1267.9	1236.9	1208.7	1183.0	1164.8	1146.5	1164.8
5.0	1339.7	1337.3	1322.5	1284.6	1230.0	1173.0	1118.7	1076.8	1051.8	1076.8
7.5	1356.4	1353.1	1339.1	1291.7	1214.9	1126.7	1042.1	982.0	947.5	982.0
10.0	1344.4	1345.6	1336.8	1285.1	1190.3	1073.5	961.1	879.4	834.9	879.4
12.5	1317.6	1319.9	1310.3	1262.3	1148.9	1008.5	871.5	773.9	724.2	773.9
15.0	1289.6	1287.1	1266.4	1221.8	1094.8	935.5	777.4	672.5	620.8	672.5
17.5	1261.7	1245.5	1208.8	1164.0	1032.1	854.9	683.6	576.4	526.2	576.4
20.0	1239.6	1211.7	1141.5	1088.9	963.0	771.9	594.3	491.9	448.7	491.9
22.5	1213.5	1170.9	1074.3	1013.5	890.2	691.6	514.4	422.5	390.3	422.5
25.0	1176.3	1127.6	1007.8	935.5	820.0	615.7	444.8	372.9	356.7	372.9
27.5	1105.3	1057.6	940.7	860.2	747.0	545.4	385.2	341.3	344.8	341.3
30.0	1011.4	970.7	876.8	772.6	652.9	472.2	337.5	326.8	346.1	326.8
32.5	893.7	869.4	814.5	664.2	549.9	391.9	297.4	321.6	347.7	321.6
35.0	768.8	763.5	734.9	559.0	461.9	320.4	261.4	315.3	343.9	315.3
37.5	651.7	655.1	628.9	470.0	392.2	262.7	230.6	304.5	337.0	304.5
40.0	554.4	555.9	529.7	415.0	359.0	225.3	207.0	290.3	325.4	290.3
42.5	479.9	475.7	443.7	365.0	276.9	190.8	188.1	275.5	308.5	275.5
45.0	432.3	410.8	379.1	283.1	218.7	150.3	173.4	258.1	287.0	258.1
47.5	412.2	368.0	323.4	230.2	190.4	121.6	158.2	237.8	262.1	237.8
50.0	417.7	346.4	265.4	209.4	167.7	105.0	139.8	215.5	238.1	215.5
52.5	429.5	340.7	219.6	179.3	131.8	89.1	121.5	193.9	216.2	193.9
55.0	439.3	341.1	192.6	144.4	116.7	73.5	107.5	173.7	195.7	173.7
57.5	444.5	339.4	172.7	135.5	104.3	66.3	94.9	155.2	175.4	155.2
60.0	443.7	333.7	154.6	115.6	83.7	57.6	83.7	137.6	157.5	137.6
62.5	439.9	323.9	141.8	99.7	78.7	49.7	74.1	121.8	141.6	121.8
65.0	429.5	310.5	130.4	87.3	63.6	43.6	65.9	109.5	131.7	109.5
67.5	412.9	293.5	118.0	73.6	55.1	37.4	58.4	99.0	122.2	99.0
70.0	372.0	268.4	104.7	61.3	45.3	31.8	51.2	85.8	109.4	85.8
72.5	319.8	223.7	89.7	50.5	37.1	26.7	43.3	73.2	98.2	73.2
75.0	251.3	176.3	73.7	41.9	28.2	22.2	34.8	61.6	87.4	61.6
77.5	180.2	125.5	55.9	32.0	18.2	17.1	27.4	49.8	73.6	49.8
80.0	120.0	82.0	39.0	22.4	11.5	12.0	20.4	36.9	55.3	36.9
82.5	73.4	48.1	24.5	14.3	6.9	8.1	14.2	23.8	35.3	23.8
85.0	28.3	18.8	12.9	8.0	3.6	5.3	8.6	12.4	16.9	12.4
87.5	2.2	2.1	4.2	3.4	1.4	3.0	3.3	3.6	3.3	3.6
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	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4	1238.4
2.5	1183.0	1208.7	1236.9	1267.9	1283.1	1298.8	1305.3
5.0	1118.7	1173.0	1230.0	1284.6	1322.5	1337.3	1339.7
7.5	1042.1	1126.7	1214.9	1291.7	1339.1	1353.1	1356.4
10.0	961.1	1073.5	1190.3	1285.1	1336.8	1345.6	1344.4
12.5	871.5	1008.5	1148.9	1262.3	1310.3	1319.9	1317.6
15.0	777.4	935.5	1094.8	1221.8	1266.4	1287.1	1289.6
17.5	683.6	854.9	1032.1	1164.0	1208.8	1245.5	1261.7
20.0	594.3	771.9	963.0	1088.9	1141.5	1211.7	1239.6
22.5	514.4	691.6	890.2	1013.5	1074.3	1170.9	1213.5
25.0	444.8	615.7	820.0	935.5	1007.8	1127.6	1176.3
27.5	385.2	545.4	747.0	860.2	940.7	1057.6	1105.3
30.0	337.5	472.2	652.9	772.6	876.8	970.7	1011.4

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32.5	297.4	391.9	549.9	664.2	814.5	869.4	893.7
35.0	261.4	320.4	461.9	559.0	734.9	763.5	768.8
37.5	230.6	262.7	392.2	470.0	628.9	655.1	651.7
40.0	207.0	225.3	359.0	415.0	529.7	555.9	554.4
42.5	188.1	190.8	276.9	365.0	443.7	475.7	479.9
45.0	173.4	150.3	218.7	283.1	379.1	410.8	432.3
47.5	158.2	121.6	190.4	230.2	323.4	368.0	412.2
50.0	139.8	105.0	167.7	209.4	265.4	346.4	417.7
52.5	121.5	89.1	131.8	179.3	219.6	340.7	429.5
55.0	107.5	73.5	116.7	144.4	192.6	341.1	439.3
57.5	94.9	66.3	104.3	135.5	172.7	339.4	444.5
60.0	83.7	57.6	83.7	115.6	154.6	333.7	443.7
62.5	74.1	49.7	78.7	99.7	141.8	323.9	439.9
65.0	65.9	43.6	63.6	87.3	130.4	310.5	429.5
67.5	58.4	37.4	55.1	73.6	118.0	293.5	412.9
70.0	51.2	31.8	45.3	61.3	104.7	268.4	372.0
72.5	43.3	26.7	37.1	50.5	89.7	223.7	319.8
75.0	34.8	22.2	28.2	41.9	73.7	176.3	251.3
77.5	27.4	17.1	18.2	32.0	55.9	125.5	180.2
80.0	20.4	12.0	11.5	22.4	39.0	82.0	120.0
82.5	14.2	8.1	6.9	14.3	24.5	48.1	73.4
85.0	8.6	5.3	3.6	8.0	12.9	18.8	28.3
87.5	3.3	3.0	1.4	3.4	4.2	2.1	2.2
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	400.00	N.A.	23.80
0-30	749.13	N.A.	44.60
0-40	1059.91	N.A.	63.20
0-60	1447.87	N.A.	86.30
0-80	1662.14	N.A.	99.10
0-90	1677.97	N.A.	100.00
10-90	1564.08	N.A.	93.20
20-40	659.92	N.A.	39.30
20-50	881.13	N.A.	52.50
40-70	522.68	N.A.	31.10
60-80	214.26	N.A.	12.80
70-80	79.54	N.A.	4.70
80-90	15.84	N.A.	0.90
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	1677.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.89
10-20	286.10
20-30	349.13
30-40	310.78
40-50	221.21
50-60	166.75
60-70	134.72
70-80	79.54
80-90	15.84
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

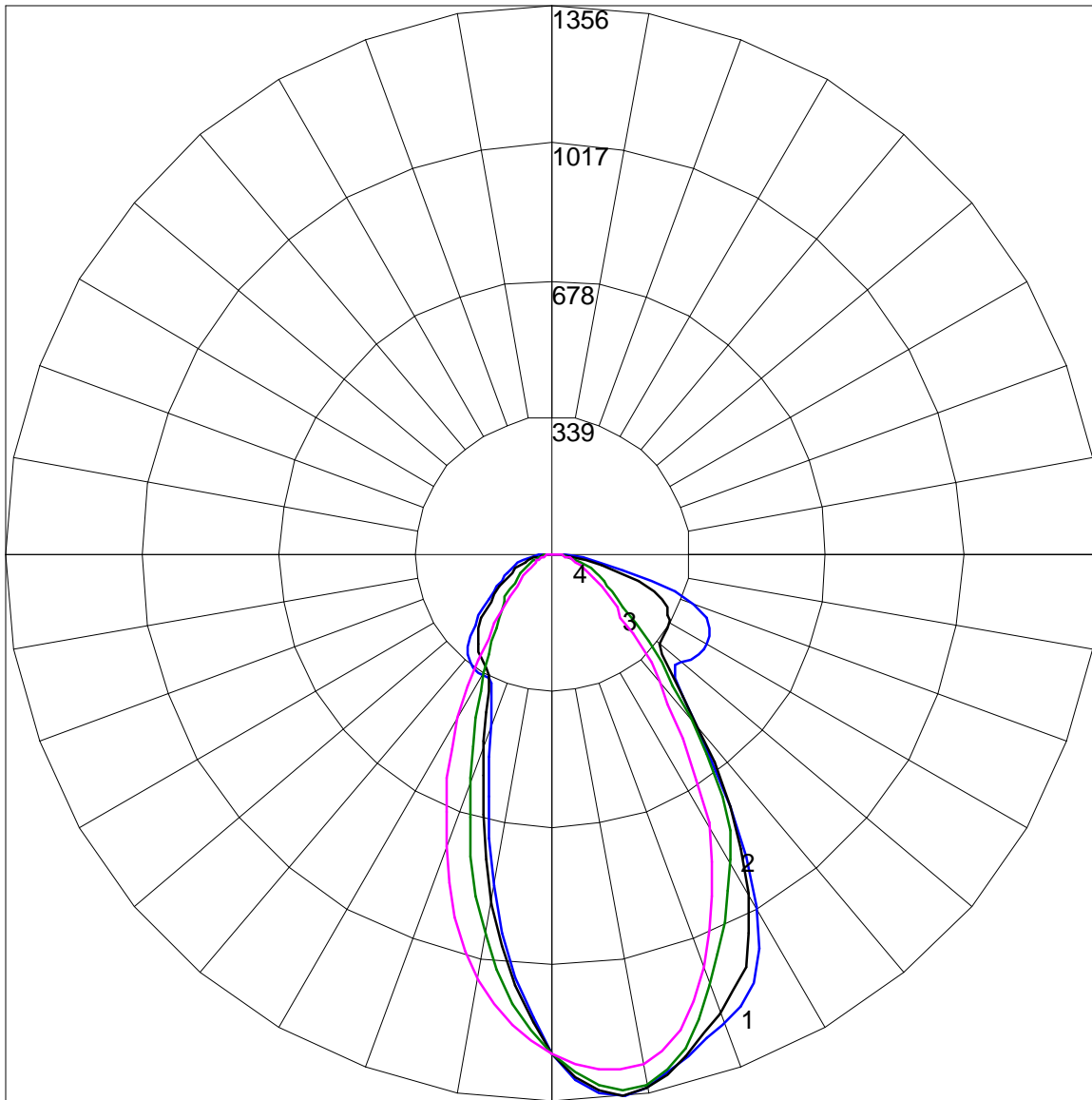
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	61	49	42	37	59	48	42	37	47	41	37	46	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 1356.4 Located At Horizontal Angle = 0, Vertical Angle = 7.5
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)