

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_6 ~ C0611SQXT-30LXXK-NDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00618_6
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/26/2018
[LUMCAT] C0611SQXT-30L-xxK-ND-EX-TCY-NL-xx-MW
[LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
[OTHER] Upper, Internal Reflector, Narrow Beam
[OTHER] Lower Trim, Semi-Diffuse Clear Anodized Alum.
[OTHER] No Lens, Flush with Lower Trim
[OTHER] 21.1 Degree Beam Angle
[LAMPCAT] N/A
[LAMP] N/A, 19mm LES
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3356
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6941	7514	6723
55	7451	7857	7572
65	8548	8774	8504
75	8817	6945	8370
85	5215	5733	5268

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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	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050
5	12245.770	12147.960	10969.200	10714.740	10506.370	11915.470	12293.120	12252.990	12638.690	12614.660
10	7489.661	7408.779	6248.368	6049.500	5806.966	7090.221	7529.362	7509.021	7949.782	7910.995
15	3979.355	3943.972	3335.003	3232.525	3064.095	3731.565	4009.520	3978.474	4251.819	4221.911
20	2296.786	2285.424	2052.897	1951.926	1813.199	2153.542	2312.473	2250.050	2360.970	2384.952
25	1350.117	1524.033	1478.511	1125.287	899.098	1316.576	1588.536	1411.879	1279.513	1421.556
30	490.417	780.282	1011.929	379.394	214.676	522.099	1140.042	613.575	408.105	575.558
35	84.145	207.177	422.775	77.747	55.079	103.533	515.014	136.053	70.144	113.623
40	52.059	53.973	87.022	53.503	50.594	49.869	119.869	51.633	46.679	52.954
45	45.778	45.743	49.553	45.567	44.337	44.812	46.349	47.302	40.841	47.646
50	40.680	42.745	44.815	41.846	39.502	43.432	45.143	43.342	38.958	43.294
55	39.858	41.165	42.033	39.824	40.506	41.887	41.858	41.277	35.536	41.345
60	34.681	39.088	37.402	39.809	37.140	39.354	41.574	42.694	37.130	38.775
65	33.694	35.819	34.585	37.208	33.519	42.991	42.209	40.333	39.619	41.559
70	32.436	34.592	29.921	28.459	26.893	42.037	35.562	36.355	36.030	37.287
75	21.284	25.563	16.765	21.573	20.206	35.228	30.703	30.106	29.175	31.595
80	11.135	11.464	8.904	9.976	11.425	26.595	24.479	25.431	23.621	24.194
85	4.239	4.171	4.660	3.739	4.282	21.749	19.479	20.398	19.383	20.217
90	1.414	0.245	1.282	0.835	2.349	15.576	5.970	14.931	6.397	14.604
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050	14705.050
5	13557.340	13856.390	14142.170	13094.420	12726.470	12709.740	12245.770
10	9124.874	9528.159	9904.039	8484.559	8029.551	8006.350	7489.661
15	5006.614	5231.995	5547.717	4629.438	4349.104	4322.789	3979.355
20	2782.545	2872.436	3025.493	2613.709	2509.088	2483.734	2296.786
25	1796.440	1823.339	1818.734	1678.472	1696.537	1599.749	1350.117
30	1327.194	1082.028	808.255	875.038	1272.735	792.657	490.417
35	765.877	368.286	183.928	241.157	752.057	206.277	84.145
40	217.426	71.097	53.033	56.504	235.202	60.887	52.059
45	57.015	51.581	43.981	49.390	56.820	53.404	45.778

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50	46.749	48.955	41.240	46.650	49.257	47.737	40.680
55	43.855	48.000	38.484	44.196	48.134	47.002	39.858
60	41.689	41.969	35.513	38.495	44.732	41.880	34.681
65	38.291	44.048	32.508	37.820	37.167	39.613	33.694
70	35.574	40.908	36.632	32.682	29.868	34.547	32.436
75	31.079	31.401	29.378	20.067	17.080	23.264	21.284
80	22.950	23.598	21.685	9.115	9.491	10.971	11.135
85	19.641	17.093	16.182	4.153	4.815	5.915	4.239
90	5.181	12.988	13.859	0.507	1.007	0.286	1.414
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2293.52	N.A.	68.30
0-30	2985.2	N.A.	89.00
0-40	3196.51	N.A.	95.30
0-60	3276.85	N.A.	97.60
0-80	3341.39	N.A.	99.60
0-90	3354.21	N.A.	100.00
10-90	2309.23	N.A.	68.80
20-40	902.99	N.A.	26.90
20-50	945.71	N.A.	28.20
40-70	117.60	N.A.	3.50
60-80	64.54	N.A.	1.90
70-80	27.28	N.A.	0.80
80-90	12.82	N.A.	0.40
90-110	1.67	N.A.	0.00
90-120	1.67	N.A.	0.00
90-130	1.67	N.A.	0.00
90-150	1.67	N.A.	0.00
90-180	1.67	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3355.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1044.98
10-20	1248.54
20-30	691.69
30-40	211.30
40-50	42.72
50-60	37.62
60-70	37.25
70-80	27.28
80-90	12.82
90-100	1.67
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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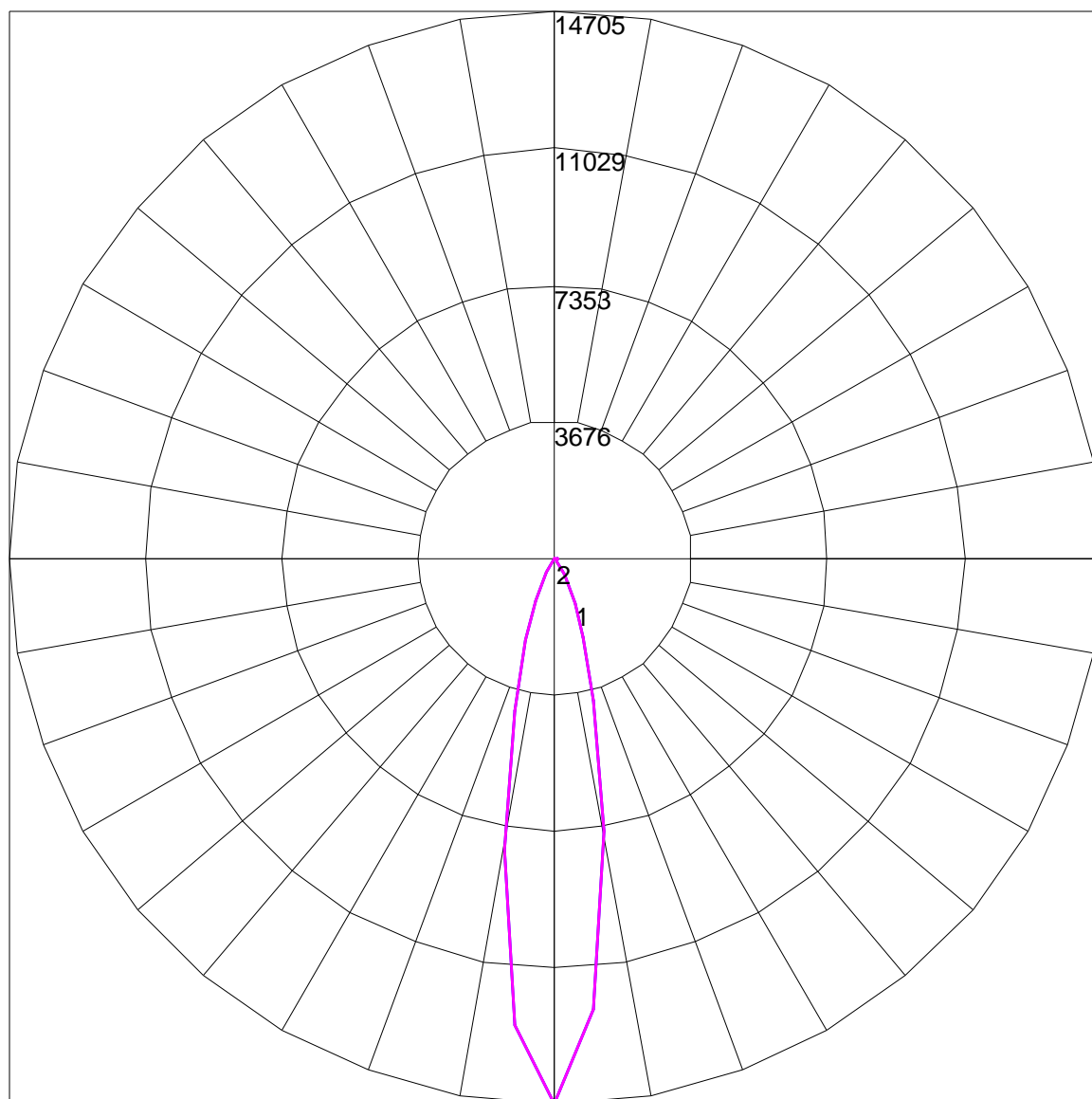
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68

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POLAR GRAPH



Maximum Candela = 14705.05 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)