

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_6 ~ C0611SQXT-13LXXK-NDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618_6_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-13L-xxK-ND-EX-TCY-NL-xx-MW

[LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight

[OTHER] Upper, Internal Reflector, Narrow Beam

[OTHER] Lower Trim, Same Color as Cylinder - Matte White

[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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	13
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_6 ~ C0611SQXT-13LXXK-NDEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3008	3256	2913
55	3228	3405	3281
65	3704	3802	3685
75	3820	3009	3627
85	2260	2484	2282

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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	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698
5	5306.092	5263.711	4752.954	4642.697	4552.410	5162.973	5326.609	5309.220	5476.344	5465.932
10	3245.270	3210.224	2707.418	2621.248	2516.158	3072.193	3262.472	3253.659	3444.640	3427.834
15	1724.254	1708.923	1445.057	1400.653	1327.672	1616.887	1737.325	1723.873	1842.313	1829.354
20	995.197	990.274	889.520	845.770	785.659	933.130	1001.995	974.947	1023.008	1033.400
25	585.006	660.363	640.639	487.587	389.579	570.472	688.313	611.767	554.413	615.960
30	212.498	338.096	438.469	164.391	93.019	226.225	493.980	265.862	176.832	249.389
35	36.460	89.770	183.188	33.688	23.866	44.861	223.156	58.952	30.393	49.233
40	22.557	23.387	37.707	23.183	21.922	21.608	51.939	22.373	20.226	22.945
45	19.836	19.820	21.471	19.744	19.211	19.417	20.083	20.496	17.696	20.645
50	17.627	18.521	19.418	18.132	17.116	18.819	19.560	18.780	16.881	18.759
55	17.270	17.837	18.213	17.256	17.551	18.150	18.137	17.885	15.398	17.915
60	15.027	16.937	16.206	17.249	16.093	17.052	18.014	18.499	16.088	16.801
65	14.600	15.520	14.986	16.122	14.524	18.628	18.289	17.476	17.167	18.008
70	14.055	14.989	12.965	12.331	11.653	18.215	15.409	15.753	15.612	16.156
75	9.222	11.076	7.264	9.348	8.755	15.264	13.304	13.045	12.642	13.690
80	4.825	4.967	3.858	4.323	4.950	11.524	10.607	11.019	10.235	10.483
85	1.837	1.807	2.019	1.620	1.855	9.424	8.440	8.838	8.399	8.760
90	0.613	0.106	0.555	0.362	1.018	6.749	2.587	6.470	2.772	6.328
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	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698	6371.698
5	5874.395	6003.974	6127.802	5673.812	5514.379	5507.130	5306.092
10	3953.808	4128.551	4291.420	3676.359	3479.204	3469.151	3245.270
15	2169.366	2267.023	2403.826	2005.935	1884.467	1873.064	1724.254
20	1205.677	1244.626	1310.946	1132.520	1087.188	1076.202	995.197
25	778.397	790.053	788.057	727.282	735.109	693.171	585.006
30	575.073	468.843	350.217	379.154	551.476	343.458	212.498
35	331.854	159.578	79.696	104.493	325.866	89.380	36.460
40	94.211	30.806	22.979	24.483	101.913	26.382	22.557
45	24.705	22.350	19.057	21.401	24.620	23.140	19.836

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50	20.256	21.212	17.869	20.213	21.343	20.684	17.627
55	19.002	20.798	16.675	19.150	20.856	20.366	17.270
60	18.064	18.185	15.388	16.680	19.382	18.147	15.027
65	16.591	19.086	14.086	16.387	16.104	17.164	14.600
70	15.414	17.725	15.873	14.161	12.942	14.969	14.055
75	13.467	13.606	12.729	8.695	7.401	10.080	9.222
80	9.944	10.225	9.396	3.950	4.112	4.754	4.825
85	8.510	7.406	7.012	1.799	2.086	2.563	1.837
90	2.245	5.628	6.005	0.220	0.436	0.124	0.613
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	993.78	N.A.	68.30
0-30	1293.49	N.A.	89.00
0-40	1385.05	N.A.	95.30
0-60	1419.86	N.A.	97.60
0-80	1447.82	N.A.	99.60
0-90	1453.38	N.A.	100.00
10-90	1000.59	N.A.	68.80
20-40	391.27	N.A.	26.90
20-50	409.78	N.A.	28.20
40-70	50.96	N.A.	3.50
60-80	27.96	N.A.	1.90
70-80	11.82	N.A.	0.80
80-90	5.55	N.A.	0.40
90-110	0.72	N.A.	0.00
90-120	0.72	N.A.	0.00
90-130	0.72	N.A.	0.00
90-150	0.72	N.A.	0.00
90-180	0.72	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1454.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	452.79
10-20	540.99
20-30	299.71
30-40	91.56
40-50	18.51
50-60	16.30
60-70	16.14
70-80	11.82
80-90	5.55
90-100	0.72
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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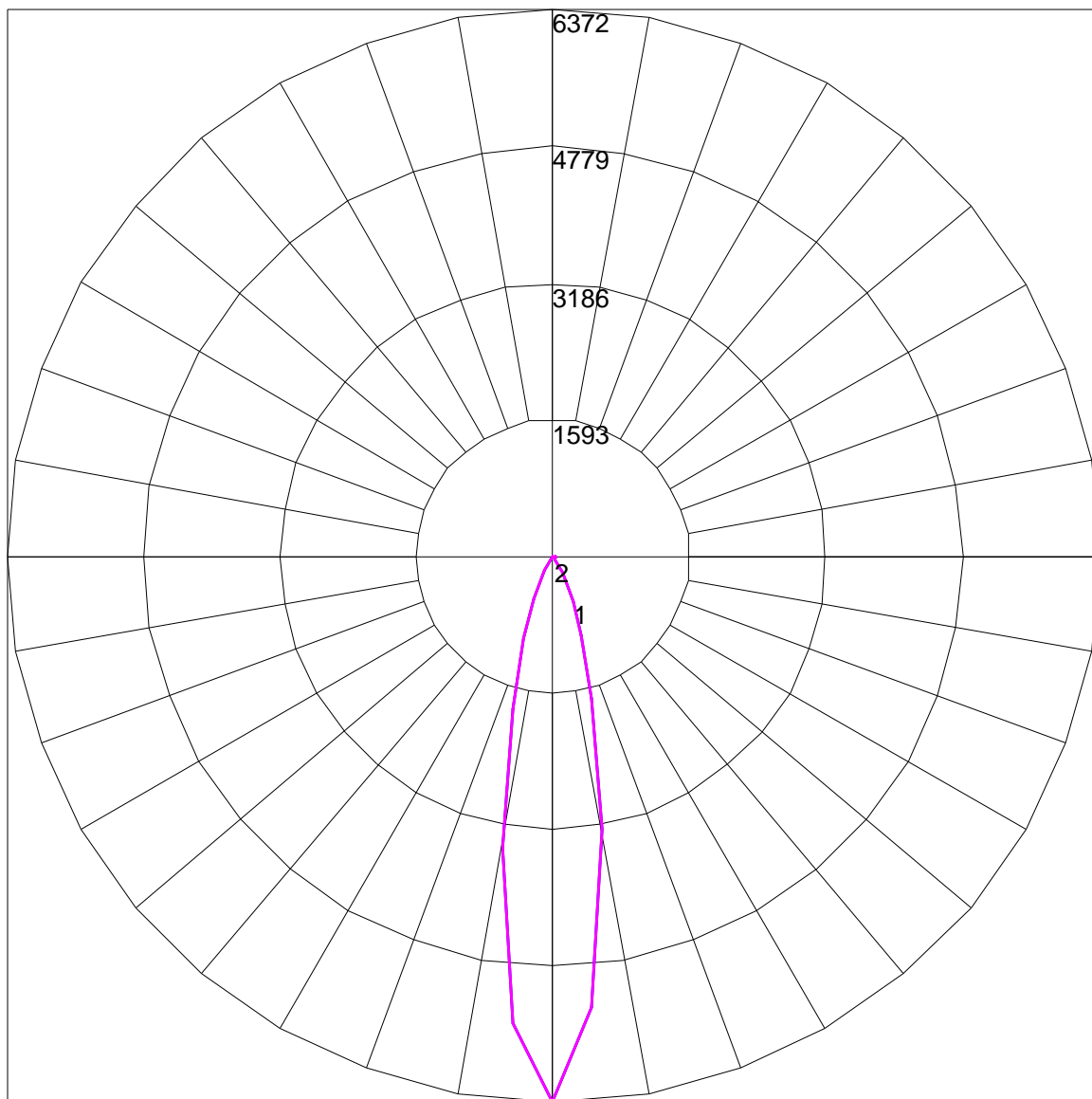
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	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	84	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	76	72	69	75	71	69	74	71	69	68

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POLAR GRAPH



Maximum Candela = 6371.698 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)