

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_14 ~ C0611SQXT-13LXXK-XNEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_14\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

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

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

[OTHER] Upper, Internal Reflector, Xtra Narrow Beam

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

[OTHER] No Lens, Flush with Lower Trim

[OTHER] 12 Degree Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, 9mm 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 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1271
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.20
Spacing Criterion (90-270)	0.20
Spacing Criterion (Diagonal)	0.22
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\_14 ~ C0611SQXT-13LXXK-XNEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1751	1909	1426
55	1686	1640	1181
65	2806	1841	2095
75	1564	1605	1590
85	1888	3184	1924

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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	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604
5	8340.371	9687.977	7211.613	8899.358	8341.989	10068.181	10737.043	9352.908	10102.573	8772.757
10	1544.664	2229.413	1492.293	2015.256	1827.380	2539.658	2996.796	2249.418	2606.716	1985.017
15	605.779	683.084	576.581	661.412	594.473	660.054	807.744	649.672	757.610	635.010
20	508.565	515.396	515.414	506.339	493.670	507.415	523.319	500.181	506.832	515.789
25	408.537	471.846	471.677	414.931	356.778	429.298	472.987	439.156	399.923	452.529
30	146.423	251.803	395.160	111.413	43.816	187.793	433.753	232.220	111.407	225.555
35	13.469	39.116	179.803	12.661	11.309	13.172	221.344	14.491	14.050	15.281
40	12.759	16.024	13.428	12.665	10.205	9.233	22.872	12.217	10.275	10.661
45	11.551	12.570	12.591	10.291	9.405	10.425	12.387	11.899	10.505	13.966
50	10.644	11.046	10.449	9.425	6.823	9.892	10.262	9.911	9.757	11.435
55	9.021	8.726	8.772	6.798	6.319	9.792	8.239	7.082	6.772	9.928
60	6.844	8.917	7.760	8.378	7.946	9.944	8.005	8.715	6.360	10.264
65	11.062	8.971	7.255	8.100	8.259	6.735	9.484	10.793	8.949	10.930
70	9.873	7.685	7.811	5.724	5.499	5.010	7.923	9.175	9.033	7.786
75	3.776	5.042	3.875	4.188	3.838	7.428	6.287	7.571	6.004	6.722
80	3.623	2.439	3.151	2.374	1.680	6.963	5.193	5.890	6.079	4.779
85	1.535	2.187	2.588	1.262	1.564	5.691	4.430	6.556	5.138	7.973
90	0.948	0.307	1.046	0.781	0.202	4.433	1.760	3.342	2.545	3.446
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. 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	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604	15438.604
5	11049.291	9659.013	10217.200	8675.829	7868.900	9290.716	8340.371
10	3159.572	2232.981	2690.831	2016.719	1541.337	2146.787	1544.664
15	837.883	658.915	740.585	661.005	608.841	680.670	605.779
20	546.001	520.391	515.503	514.550	529.589	528.494	508.565
25	489.299	473.569	466.677	470.452	481.441	483.136	408.537
30	446.922	343.159	195.055	296.187	434.065	239.764	146.423
35	358.190	72.114	27.199	40.661	279.245	39.506	13.469
40	47.101	15.725	10.478	13.649	61.766	12.212	12.759
45	16.458	13.000	10.984	11.713	12.858	12.901	11.551

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50	15.172	12.253	12.533	10.080	12.301	12.706	10.644
55	13.600	11.833	12.921	11.159	13.595	11.264	9.021
60	12.215	11.532	9.464	11.601	12.795	9.688	6.844
65	9.392	12.682	10.064	10.241	9.675	10.228	11.062
70	8.267	9.619	8.888	8.126	6.544	8.499	9.873
75	6.650	8.272	11.762	5.112	4.061	5.644	3.776
80	4.915	6.800	6.592	2.450	3.106	2.484	3.623
85	5.873	5.132	4.344	1.437	1.617	1.830	1.535
90	1.827	3.538	2.646	0.773	0.588	0.320	0.948
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_14 ~ C0611SQXT-13LXXK-XNEX-TCY-NLMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	974.84	N.A.	76.70
0-30	1165.18	N.A.	91.70
0-40	1232.43	N.A.	97.00
0-60	1251.61	N.A.	98.50
0-80	1266.99	N.A.	99.70
0-90	1270.66	N.A.	100.00
10-90	564.93	N.A.	44.40
20-40	257.59	N.A.	20.30
20-50	267.85	N.A.	21.10
40-70	28.19	N.A.	2.20
60-80	15.39	N.A.	1.20
70-80	6.38	N.A.	0.50
80-90	3.67	N.A.	0.30
90-110	0.49	N.A.	0.00
90-120	0.49	N.A.	0.00
90-130	0.49	N.A.	0.00
90-150	0.49	N.A.	0.00
90-180	0.49	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1271.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	705.74
10-20	269.10
20-30	190.34
30-40	67.25
40-50	10.26
50-60	8.92
60-70	9.01
70-80	6.38
80-90	3.67
90-100	0.49
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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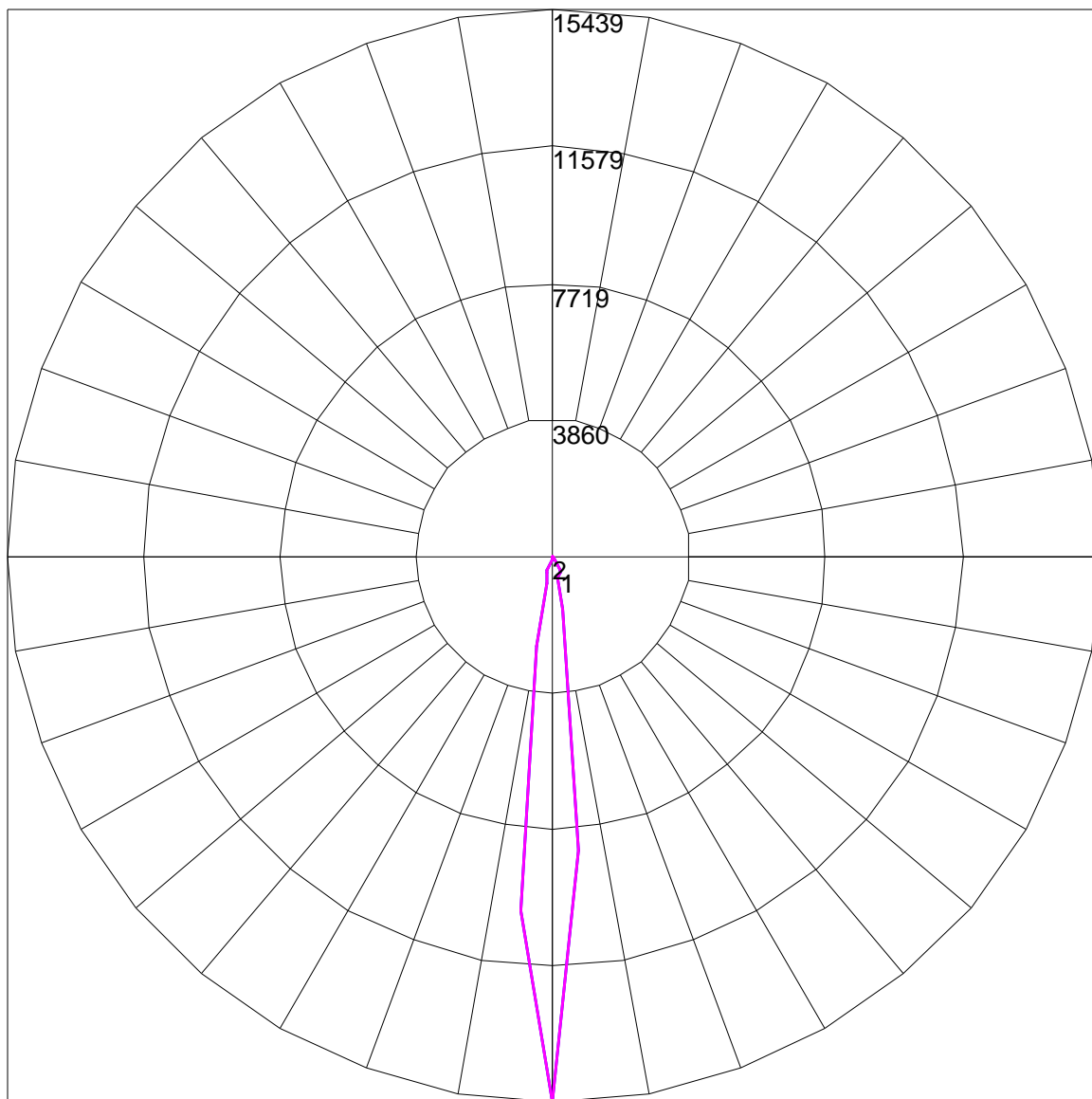
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87
6	100	94	90	88	99	93	90	87	92	89	87	91	88	86	90	87	86	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81
9	94	87	84	81	93	87	84	81	86	83	81	86	83	81	85	82	80	80
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78

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POLAR GRAPH



Maximum Candela = 15438.604 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)