

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_19 ~ C0611SQXT-10LXXK-XWEX-TCY-SOMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_19\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-10L-xxK-XW-EX-TCY-SO-xx-MW

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

[OTHER] Upper, Internal Reflector, Xtra Wide Beam

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

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 53.2 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	853
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.90
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\_19 ~ C0611SQXT-10LXXK-XWEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7462	7261	7236
55	3010	3952	3410
65	2615	2989	2880
75	2550	2559	2831
85	1854	1512	1849

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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	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971
5	988.654	986.090	982.282	989.752	992.697	1006.393	1007.378	1004.651	1008.626	1007.361
10	935.818	929.451	922.661	934.182	936.261	967.771	968.142	965.060	969.553	969.754
15	844.714	841.945	831.634	839.301	840.429	892.267	898.515	892.125	896.448	899.621
20	719.331	728.391	716.021	719.589	712.309	779.495	791.350	784.460	788.225	796.009
25	520.944	572.664	582.895	558.641	519.473	648.416	663.233	653.218	648.608	669.615
30	258.630	319.433	407.726	323.596	276.094	463.543	513.230	457.452	412.783	479.193
35	130.618	139.512	214.614	142.736	129.207	233.655	334.777	224.136	186.323	238.878
40	80.505	79.885	87.956	77.697	75.634	104.839	171.166	104.215	102.574	112.845
45	49.211	50.241	47.889	48.996	47.721	62.178	74.806	62.861	64.276	68.434
50	28.388	31.073	31.318	30.959	29.477	41.133	42.763	40.619	39.433	43.185
55	16.104	19.275	21.143	20.355	18.243	28.097	29.382	27.275	24.179	27.688
60	11.538	13.622	15.136	14.392	13.303	20.400	21.478	19.263	16.688	18.487
65	10.309	11.589	11.782	11.522	11.354	16.783	17.240	15.709	13.690	14.358
70	8.627	9.411	9.253	9.489	9.749	15.740	14.584	14.823	13.413	13.144
75	6.156	6.555	6.177	5.701	6.835	13.337	11.542	13.737	12.081	12.098
80	3.841	3.647	3.458	3.669	3.616	10.709	10.032	10.319	9.638	9.072
85	1.507	1.748	1.229	1.348	1.503	7.668	7.350	7.341	6.922	6.702
90	0.843	0.708	0.560	0.677	0.632	4.448	4.296	4.361	4.343	4.112
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	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971	1015.971
5	1013.937	1010.987	1009.700	999.189	996.803	995.021	988.654
10	980.143	977.430	976.742	953.760	950.515	948.550	935.818
15	917.144	911.354	909.582	872.096	870.590	863.606	844.714
20	821.556	809.099	803.119	750.187	760.628	748.938	719.331
25	705.685	676.369	653.689	581.578	634.958	588.042	520.944
30	575.050	466.318	380.960	327.311	468.982	320.850	258.630
35	399.116	222.567	175.149	148.976	250.297	144.532	130.618
40	198.889	109.128	101.787	84.957	98.402	84.227	80.505
45	80.384	66.517	62.913	51.815	52.448	52.274	49.211

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50	46.107	41.534	37.624	30.710	32.202	31.893	28.388
55	29.777	25.782	21.956	18.108	20.497	19.446	16.104
60	20.249	17.127	13.344	11.616	13.949	12.880	11.538
65	14.789	13.663	11.330	9.345	10.352	10.869	10.309
70	12.714	12.675	11.306	8.015	8.135	8.933	8.627
75	11.294	11.314	10.498	5.968	5.766	6.777	6.156
80	9.214	9.208	8.785	3.318	3.381	3.999	3.841
85	7.413	7.476	5.920	1.614	1.396	1.931	1.507
90	4.960	4.920	5.251	0.680	0.682	0.226	0.843
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\_19 ~ C0611SQXT-10LXXK-XWEX-TCY-SOMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	337.91	N.A.	39.60
0-30	611.98	N.A.	71.70
0-40	753.90	N.A.	88.30
0-60	825.22	N.A.	96.70
0-80	847.81	N.A.	99.30
0-90	852.67	N.A.	99.90
10-90	758.62	N.A.	88.90
20-40	415.98	N.A.	48.70
20-50	465.49	N.A.	54.50
40-70	84.38	N.A.	9.90
60-80	22.58	N.A.	2.60
70-80	9.53	N.A.	1.10
80-90	4.87	N.A.	0.60
90-110	0.71	N.A.	0.10
90-120	0.71	N.A.	0.10
90-130	0.71	N.A.	0.10
90-150	0.71	N.A.	0.10
90-180	0.71	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	853.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.05
10-20	243.87
20-30	274.07
30-40	141.92
40-50	49.51
50-60	21.82
60-70	13.05
70-80	9.53
80-90	4.87
90-100	0.71
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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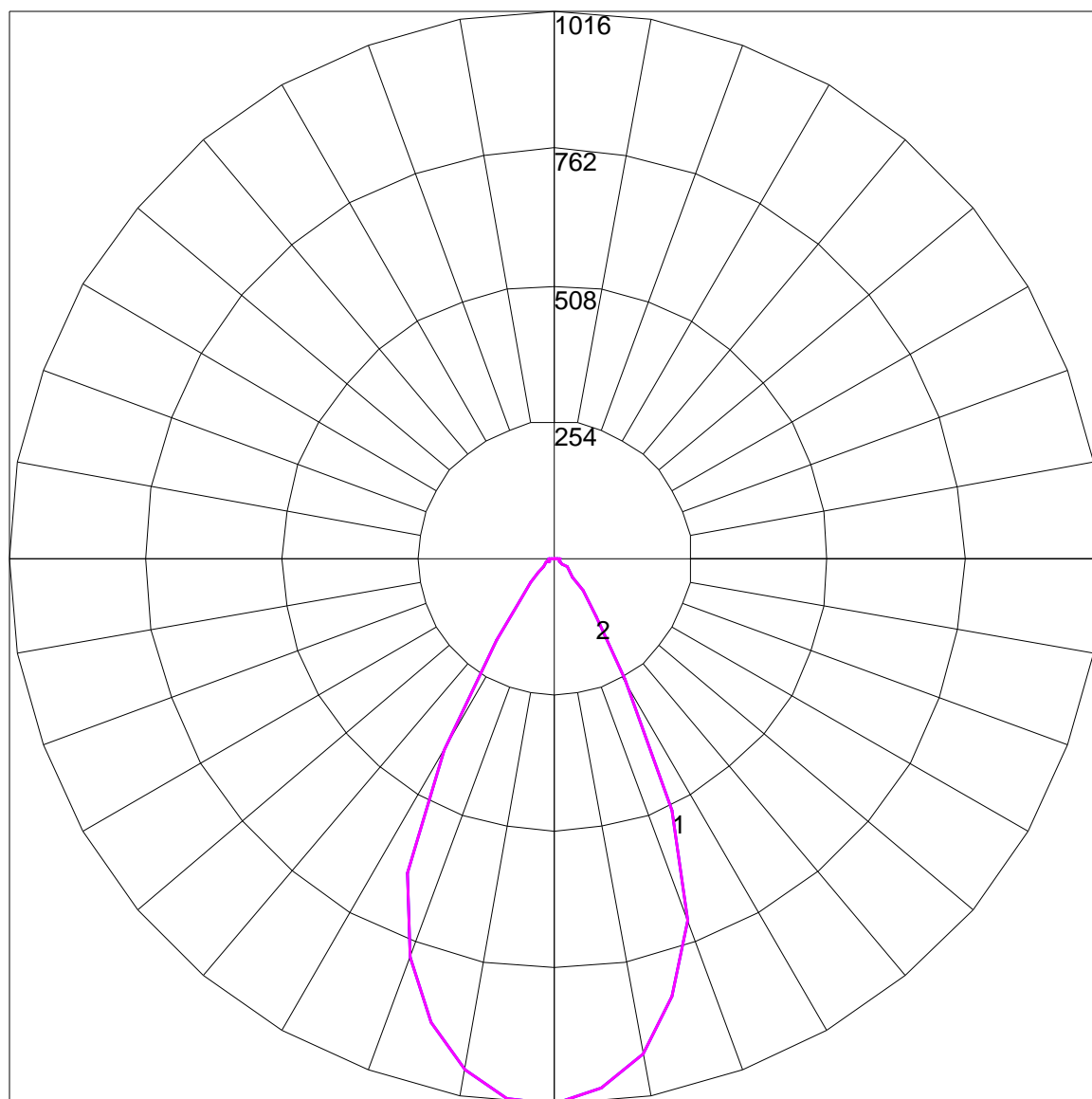
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50

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POLAR GRAPH



Maximum Candela = 1015.971 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)