

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_10 ~ C0611SQXT-20LXXK-WDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618_10_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-xxK-WD-EX-TCY-NL-xx-MW

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

[OTHER] Upper, Internal Reflector, Wide Beam

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

[OTHER] No Lens, Flush with Lower Trim

[OTHER] 43.1 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	1856
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.76
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	10090	10234	9452
55	6196	7024	5359
65	5922	6544	5830
75	6717	6531	6854
85	3624	6082	5991

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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	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522
5	3030.926	3029.236	3045.982	3051.993	3055.827	3043.138	3041.885	3042.086	3033.288	3021.286
10	2739.776	2736.892	2752.178	2765.906	2776.471	2765.624	2765.792	2765.081	2750.854	2733.870
15	2280.141	2278.969	2298.490	2311.386	2319.295	2319.915	2326.091	2319.294	2298.212	2288.626
20	1748.845	1752.344	1775.343	1762.297	1753.900	1785.279	1803.190	1783.213	1756.018	1758.166
25	1192.673	1297.361	1326.116	1242.891	1176.301	1248.333	1355.612	1278.487	1141.819	1217.485
30	556.605	747.661	970.721	633.892	504.299	656.780	983.376	698.252	501.171	594.697
35	198.091	275.001	522.504	187.570	167.430	224.991	513.360	248.775	180.958	210.311
40	103.661	107.711	147.615	101.335	97.793	106.401	169.314	106.707	100.386	104.957
45	66.543	69.878	67.495	66.585	62.334	70.568	71.208	68.713	62.934	70.030
50	45.242	48.951	47.718	45.125	41.269	49.133	50.710	48.159	41.523	47.852
55	33.145	35.749	37.578	33.805	28.669	35.972	37.593	35.657	29.970	34.126
60	26.326	29.673	30.872	28.451	23.127	29.104	31.280	29.017	26.187	28.319
65	23.344	26.351	25.795	25.403	22.980	27.971	29.840	28.320	25.739	27.927
70	21.888	23.718	21.706	23.293	21.600	27.917	27.542	27.281	26.193	27.281
75	16.215	17.638	15.765	18.823	16.545	27.261	21.751	24.745	22.156	23.993
80	8.961	10.826	9.416	11.029	11.299	21.087	18.477	19.096	17.650	19.088
85	2.946	3.721	4.944	4.528	4.870	15.330	13.716	13.279	12.530	13.579
90	1.367	1.355	1.866	1.433	2.075	10.755	10.967	11.061	4.516	0.000
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	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522	3136.522
5	3033.680	3046.806	3057.129	3045.720	3040.842	3032.890	3030.926
10	2745.959	2755.732	2770.476	2757.293	2757.792	2748.190	2739.776
15	2294.303	2283.088	2288.256	2290.457	2308.683	2295.947	2280.141
20	1763.610	1741.156	1741.641	1767.504	1789.358	1771.831	1748.845
25	1315.439	1296.700	1236.771	1316.699	1363.564	1299.247	1192.673
30	1001.064	771.814	508.991	723.893	1026.928	691.605	556.605
35	499.778	217.890	179.258	264.087	595.616	253.754	198.091
40	122.070	109.109	109.017	122.635	211.940	118.395	103.661
45	68.441	69.511	66.753	77.519	82.641	77.160	66.543

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50	51.049	49.658	44.136	52.284	56.634	52.152	45.242
55	38.675	37.239	29.919	36.016	41.231	37.963	33.145
60	31.772	30.649	25.614	29.460	32.464	30.982	26.326
65	29.052	29.196	26.799	27.664	26.747	27.171	23.344
70	25.213	27.240	22.760	23.168	22.612	23.883	21.888
75	22.247	20.837	19.963	14.956	14.615	18.088	16.215
80	15.650	16.039	14.001	7.843	8.877	9.046	8.961
85	12.073	12.416	10.764	3.532	3.143	3.088	2.946
90	0.000	0.000	0.000	0.000	0.000	0.000	1.367
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	916.18	N.A.	49.40
0-30	1486.62	N.A.	80.10
0-40	1706.38	N.A.	92.00
0-60	1798.6	N.A.	96.90
0-80	1845.73	N.A.	99.50
0-90	1854.8	N.A.	100.00
10-90	1573.6	N.A.	84.80
20-40	790.20	N.A.	42.60
20-50	849.45	N.A.	45.80
40-70	118.83	N.A.	6.40
60-80	47.12	N.A.	2.50
70-80	20.51	N.A.	1.10
80-90	9.07	N.A.	0.50
90-110	0.78	N.A.	0.00
90-120	0.78	N.A.	0.00
90-130	0.78	N.A.	0.00
90-150	0.78	N.A.	0.00
90-180	0.78	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1855.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	281.20
10-20	634.98
20-30	570.44
30-40	219.76
40-50	59.25
50-60	32.97
60-70	26.61
70-80	20.51
80-90	9.07
90-100	0.78
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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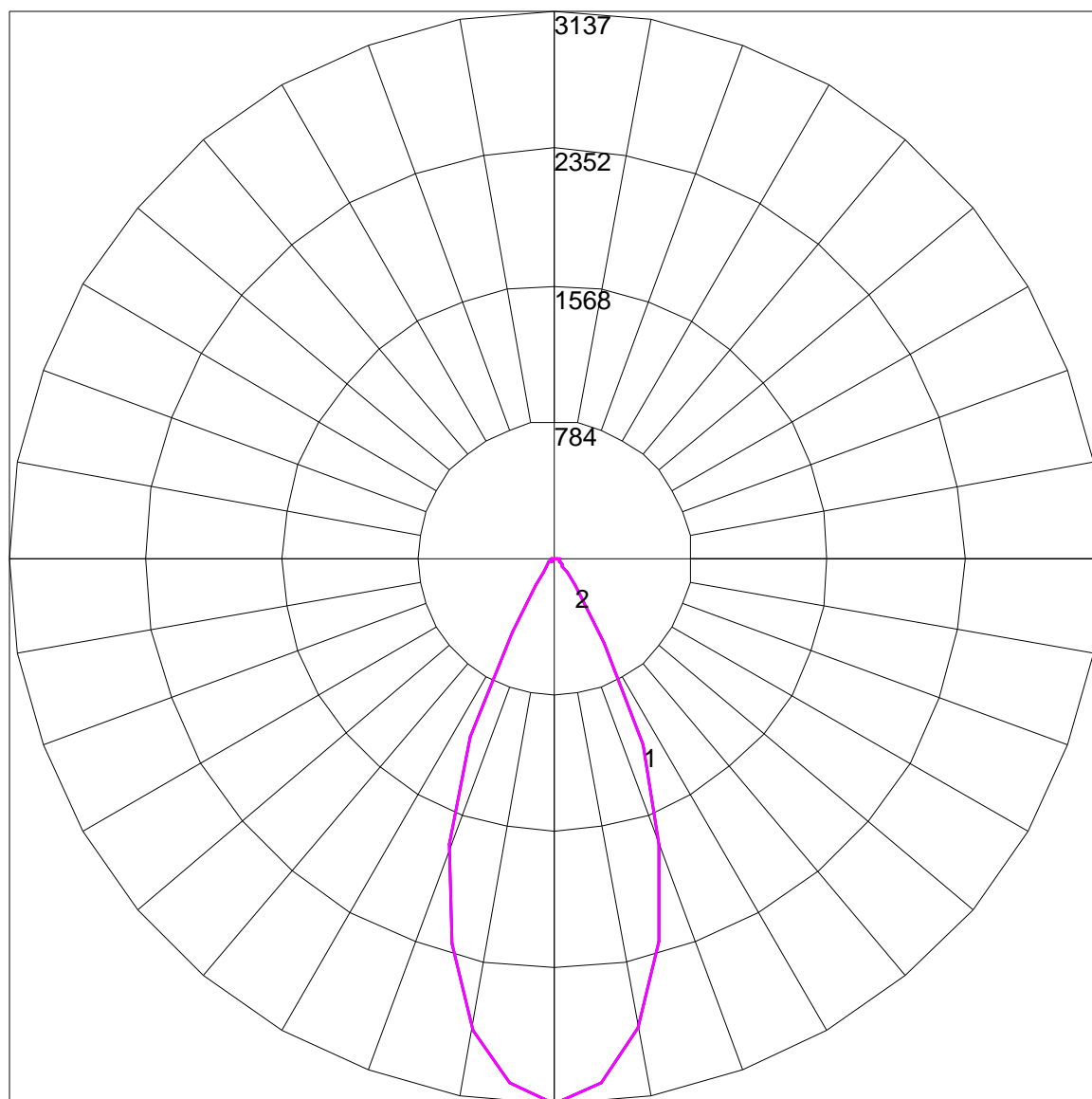
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69
7	86	77	72	68	85	77	71	67	75	71	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	61	78	69	64	61	68	64	60	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 3136.522 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)