

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_7 ~ C0611SQXT-20LXXK-NDEX-TCY-SOMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_7\_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-xxK-ND-EX-TCY-SO-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] Solite Lens, Flush with Lower Trim

[OTHER] 22.4 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	2071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.42
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\_7 ~ C0611SQXT-20LXXK-NDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6123	6638	5530
55	5975	6142	5651
65	6640	6611	5913
75	6418	6454	7155
85	4501	5484	4835

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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	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696
5	6963.395	6942.561	7039.999	7039.232	7162.398	7033.078	7000.130	6977.462	6960.975	6920.213
10	4550.248	4545.397	4491.282	4555.408	4619.596	4646.228	4631.766	4597.211	4577.391	4541.200
15	2567.373	2575.889	2503.741	2561.428	2576.235	2650.280	2656.922	2609.967	2604.770	2578.505
20	1504.639	1520.423	1496.644	1495.525	1486.084	1530.596	1561.131	1513.219	1496.289	1505.909
25	899.298	988.913	1021.120	896.749	849.363	896.269	1032.163	926.203	808.069	893.055
30	389.801	541.236	702.261	410.613	274.597	403.783	683.548	441.968	272.354	380.877
35	95.058	183.042	357.689	110.235	60.746	112.358	330.446	128.306	69.829	103.292
40	45.730	56.127	101.487	46.697	40.849	44.224	101.940	44.348	38.600	46.432
45	40.380	40.328	43.776	37.054	36.471	35.931	41.113	36.650	32.190	40.782
50	36.132	36.124	36.244	33.329	32.028	32.362	32.908	33.626	29.892	36.820
55	31.966	31.818	32.856	30.614	30.229	29.620	31.077	29.779	27.420	32.403
60	29.167	28.515	30.806	27.005	23.827	27.877	28.401	26.725	23.568	30.092
65	26.172	25.797	26.057	24.220	23.306	25.361	26.275	26.847	26.497	29.343
70	21.740	25.102	19.667	22.698	21.028	23.707	24.896	25.466	22.916	25.630
75	15.493	15.863	15.580	15.944	17.271	23.177	19.694	22.499	19.928	20.334
80	7.166	8.660	8.548	9.161	8.842	17.236	16.535	15.545	16.427	16.107
85	3.659	3.682	4.458	5.274	3.930	13.465	12.232	13.065	11.585	10.928
90	1.433	1.165	1.765	1.413	1.437	10.823	2.290	9.030	0.000	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	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696	8182.696
5	7023.685	7038.605	7106.689	7017.771	7002.677	6976.909	6963.395
10	4523.561	4607.584	4598.363	4669.116	4649.392	4606.182	4550.248
15	2544.198	2624.351	2596.872	2700.064	2691.571	2643.948	2567.373
20	1504.263	1552.036	1515.845	1592.834	1600.721	1562.751	1504.639
25	1027.564	1021.524	910.507	1029.989	1078.119	1002.507	899.298
30	740.117	560.900	362.199	554.570	774.561	519.547	389.801
35	374.400	172.996	81.758	187.008	458.502	165.958	95.058
40	96.805	60.142	46.020	63.620	172.539	57.396	45.730
45	45.773	41.986	39.783	44.894	63.069	45.567	40.380

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50	40.007	39.177	35.448	38.085	45.151	40.424	36.132
55	33.916	37.105	32.645	35.584	39.837	34.457	31.966
60	32.972	31.982	29.087	33.896	33.777	30.557	29.167
65	27.346	30.804	27.879	28.275	26.452	30.811	26.172
70	23.271	26.199	24.013	22.780	20.647	24.766	21.740
75	20.278	19.199	19.947	13.884	12.703	15.042	15.493
80	15.387	13.623	13.441	6.132	7.054	7.496	7.166
85	12.546	11.989	10.087	3.258	2.606	3.361	3.659
90	0.000	0.000	0.000	0.000	0.853	0.144	1.433
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\_7 ~ C0611SQXT-20LXXK-NDEX-TCY-SOMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1363.98	N.A.	65.90
0-30	1808.59	N.A.	87.30
0-40	1952.15	N.A.	94.30
0-60	2017.1	N.A.	97.40
0-80	2062.25	N.A.	99.60
0-90	2070.26	N.A.	100.00
10-90	1473.59	N.A.	71.20
20-40	588.18	N.A.	28.40
20-50	623.89	N.A.	30.10
40-70	91.37	N.A.	4.40
60-80	45.16	N.A.	2.20
70-80	18.73	N.A.	0.90
80-90	8.00	N.A.	0.40
90-110	0.52	N.A.	0.00
90-120	0.52	N.A.	0.00
90-130	0.52	N.A.	0.00
90-150	0.52	N.A.	0.00
90-180	0.52	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2070.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	596.66
10-20	767.32
20-30	444.62
30-40	143.56
40-50	35.71
50-60	29.23
60-70	26.42
70-80	18.73
80-90	8.00
90-100	0.52
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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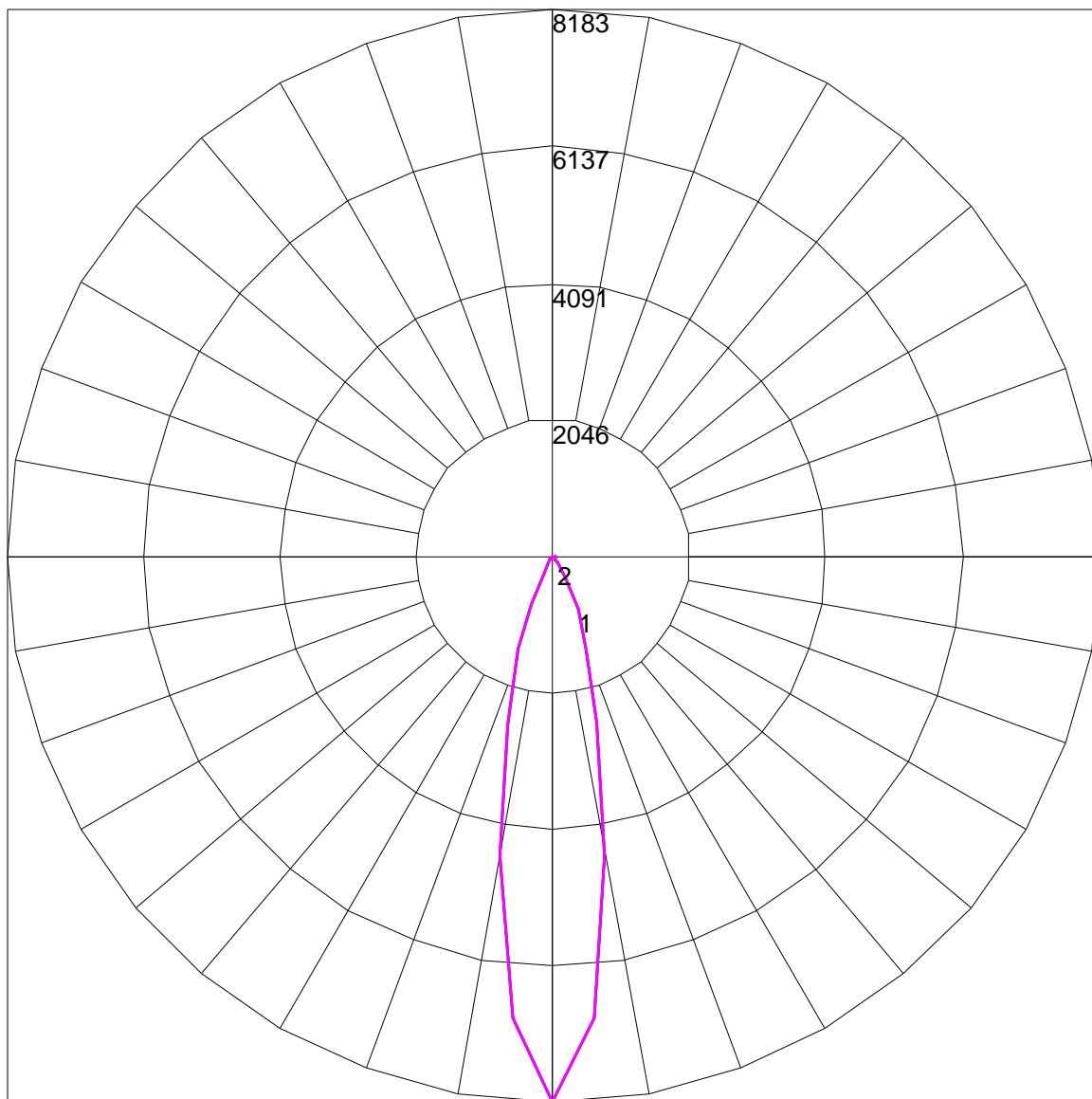
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	81	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

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POLAR GRAPH



Maximum Candela = 8182.696 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)