

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_17 ~ C0611SQXT-20LXXK-XWEX-TCY-GLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_17_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-20L-xxK-XW-EX-TCY-GL-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] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 52.7 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	1813
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16992	17860	16977
55	7834	8899	7469
65	6481	6699	6388
75	6380	7456	8081
85	4539	6716	8599

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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	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574
5	2166.342	2156.116	2169.815	2181.156	2174.587	2173.218	2173.627	2172.430	2174.591	2177.779
10	2071.532	2045.499	2071.520	2090.656	2081.847	2082.895	2076.674	2076.268	2074.887	2090.734
15	1892.827	1861.392	1912.262	1947.055	1918.282	1927.799	1916.506	1913.442	1906.599	1940.680
20	1629.906	1615.213	1685.851	1706.831	1673.114	1688.242	1685.794	1657.633	1658.402	1700.475
25	1289.466	1324.185	1431.496	1411.479	1254.892	1378.046	1430.372	1394.452	1256.754	1419.560
30	639.699	799.721	1100.182	828.639	647.400	792.953	1113.068	854.724	678.766	808.654
35	290.471	342.012	606.369	343.789	317.298	349.887	633.042	336.218	316.540	329.157
40	179.306	172.913	235.857	198.351	187.553	194.979	256.301	191.408	189.354	196.989
45	112.060	108.234	117.787	121.785	111.964	118.819	124.116	118.982	114.638	124.808
50	67.418	64.695	72.945	74.550	64.185	74.093	77.758	73.660	67.498	75.560
55	41.911	42.557	47.606	46.099	39.957	46.609	49.676	46.038	39.669	46.718
60	29.335	30.544	33.694	31.503	28.021	34.238	34.501	33.547	28.504	33.028
65	25.545	27.733	26.407	26.959	25.179	31.035	32.123	30.551	27.667	27.920
70	22.168	23.398	22.943	24.358	23.489	29.094	28.442	28.369	28.558	26.848
75	15.401	18.074	17.998	20.338	19.508	28.267	24.721	24.979	21.998	23.262
80	8.724	9.704	11.531	13.943	13.995	23.630	20.344	18.670	17.862	16.547
85	3.690	4.258	5.459	7.003	6.990	18.286	15.925	14.735	12.509	12.339
90	0.000	0.000	1.952	2.505	2.832	13.220	11.197	10.289	8.904	8.569
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	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574	2208.574
5	2170.101	2169.320	2181.070	2176.998	2182.691	2175.839	2166.342
10	2074.742	2058.077	2076.613	2074.642	2099.400	2084.678	2071.532
15	1905.095	1863.984	1883.725	1883.200	1928.714	1914.748	1892.827
20	1657.905	1617.930	1630.727	1634.132	1665.707	1662.614	1629.906
25	1401.545	1312.353	1272.733	1358.887	1408.718	1340.348	1289.466
30	1101.076	783.843	614.073	806.490	1113.938	791.376	639.699
35	576.343	339.316	296.319	336.899	665.573	354.134	290.471
40	196.457	178.588	182.438	186.125	248.922	193.866	179.306
45	114.709	111.711	113.111	116.951	125.243	123.488	112.060

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50	74.104	69.359	67.726	71.995	81.831	75.003	67.418
55	50.616	43.674	43.101	43.578	53.670	47.078	41.911
60	36.614	34.648	31.067	30.218	36.294	32.322	29.335
65	29.504	31.145	27.653	26.632	27.613	29.267	25.545
70	25.465	26.974	24.248	20.741	21.613	24.837	22.168
75	19.428	21.313	19.177	13.089	14.216	16.122	15.401
80	14.659	14.845	13.901	6.185	8.302	8.588	8.724
85	10.525	9.434	10.657	2.169	2.557	2.921	3.690
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	734.82	N.A.	40.50
0-30	1329.24	N.A.	73.30
0-40	1612.81	N.A.	89.00
0-60	1753.3	N.A.	96.70
0-80	1802.35	N.A.	99.40
0-90	1811.88	N.A.	99.90
10-90	1607.44	N.A.	88.70
20-40	877.98	N.A.	48.40
20-50	974.91	N.A.	53.80
40-70	168.77	N.A.	9.30
60-80	49.05	N.A.	2.70
70-80	20.77	N.A.	1.10
80-90	9.53	N.A.	0.50
90-110	1.02	N.A.	0.10
90-120	1.02	N.A.	0.10
90-130	1.02	N.A.	0.10
90-150	1.02	N.A.	0.10
90-180	1.02	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1812.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.44
10-20	530.39
20-30	594.42
30-40	283.57
40-50	96.92
50-60	43.57
60-70	28.28
70-80	20.77
80-90	9.53
90-100	1.02
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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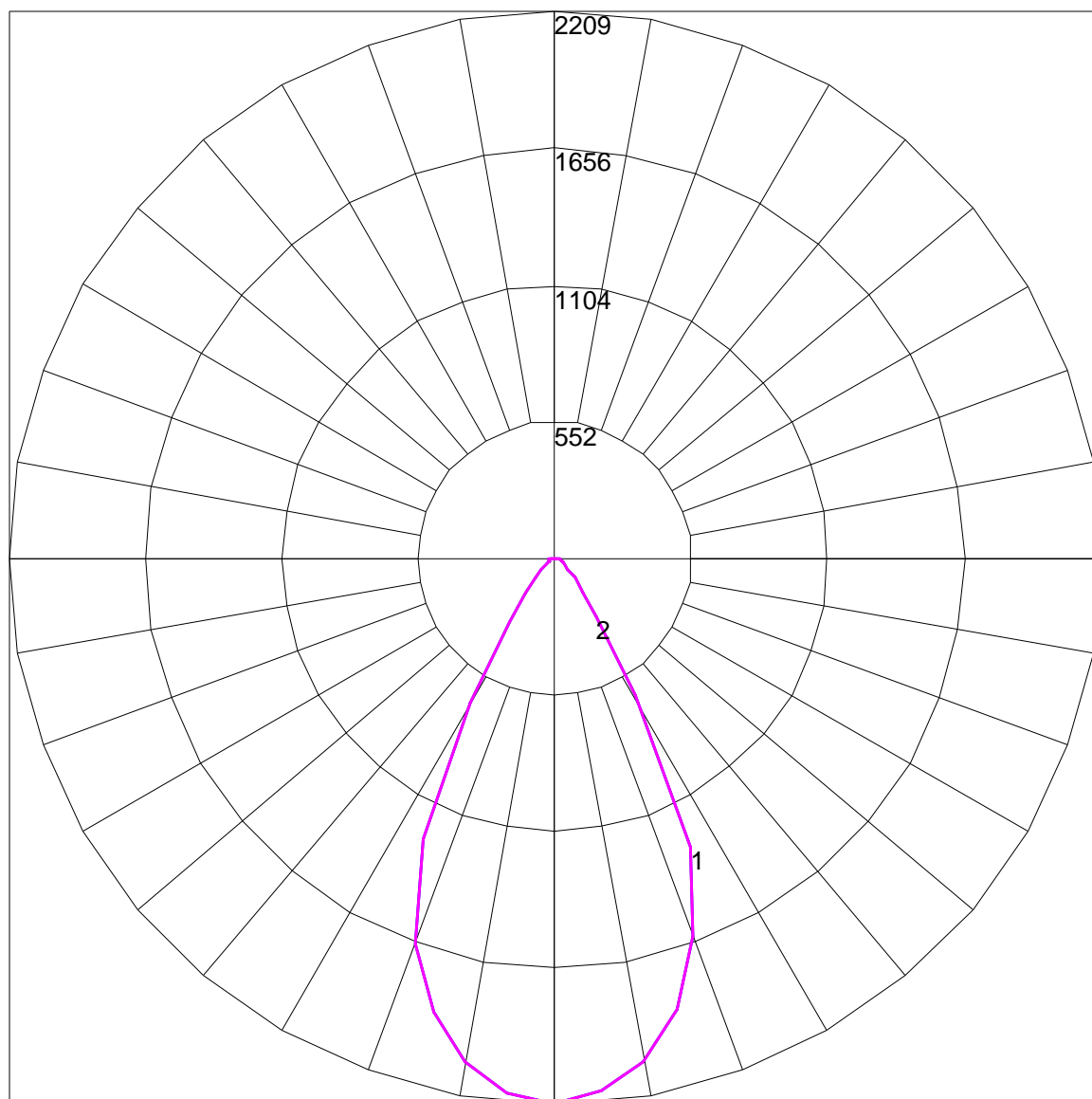
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	56	63	58	55	54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

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POLAR GRAPH



Maximum Candela = 2208.574 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)