

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_9 ~ C0611SQXT-20LXXK-WDEX-TCY-GLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_9_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-20L-xxK-WD-EX-TCY-GL-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] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 43.3 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	1752
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_9 ~ C0611SQXT-20LXXK-WDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10725	11695	10118
55	6772	7039	5979
65	5726	5713	5407
75	6175	5883	6435
85	5655	4936	6005

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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	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242
5	2790.994	2788.575	2807.348	2814.413	2827.241	2813.309	2810.292	2812.911	2809.420	2803.901
10	2512.949	2509.925	2529.749	2545.182	2564.252	2555.860	2553.567	2553.835	2550.735	2543.278
15	2090.406	2093.381	2123.676	2134.019	2143.542	2146.636	2148.276	2141.432	2133.965	2131.147
20	1612.497	1625.964	1665.913	1653.801	1638.667	1657.139	1670.237	1648.181	1630.204	1641.412
25	1129.351	1224.353	1264.892	1195.159	1133.437	1162.560	1257.371	1195.420	1084.120	1152.469
30	570.761	750.790	946.159	664.439	511.417	628.911	910.600	676.841	477.904	570.165
35	204.679	299.620	546.687	225.697	188.778	224.341	490.295	252.243	178.463	209.935
40	107.681	116.663	187.045	117.261	109.526	107.822	166.218	103.605	97.676	103.808
45	70.734	73.287	77.126	76.242	66.728	69.561	67.793	66.157	61.856	67.079
50	49.890	50.558	52.556	51.752	45.478	47.598	47.386	46.357	40.619	46.984
55	36.230	37.055	37.656	35.451	31.988	34.321	36.014	33.786	29.925	35.156
60	27.011	28.383	28.804	26.585	24.659	28.063	27.965	28.529	25.227	28.142
65	22.570	24.991	22.520	22.274	21.312	25.780	24.578	25.401	24.012	25.385
70	21.172	21.217	18.410	19.145	20.168	23.482	24.172	23.772	21.671	25.227
75	14.905	15.158	14.201	17.431	15.535	21.800	20.694	21.012	20.278	21.819
80	8.271	7.716	8.191	10.107	8.621	18.882	16.701	17.163	17.236	15.313
85	4.597	3.392	4.012	4.930	4.881	14.599	12.221	13.345	12.061	13.237
90	1.629	1.355	1.737	1.726	2.123	10.077	9.302	9.682	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	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242	2902.242
5	2812.173	2827.981	2836.800	2820.066	2811.864	2799.038	2790.994
10	2553.045	2575.178	2590.250	2566.996	2556.248	2530.647	2512.949
15	2144.192	2152.579	2150.996	2140.447	2147.445	2114.435	2090.406
20	1657.946	1642.105	1633.234	1641.305	1660.523	1636.242	1612.497
25	1244.796	1229.865	1155.741	1225.959	1256.415	1218.520	1129.351
30	930.637	764.634	519.090	703.342	937.227	694.347	570.761
35	471.196	231.025	176.168	246.701	558.626	263.324	204.679
40	127.896	111.988	106.953	112.564	199.567	113.940	107.681
45	69.282	73.602	69.228	72.671	80.979	76.337	70.734

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50	49.565	50.998	48.267	51.123	55.695	53.343	49.890
55	38.469	37.356	34.814	36.911	42.903	39.040	36.230
60	31.164	30.848	27.830	27.572	32.222	28.504	27.011
65	26.427	29.036	26.352	22.972	27.447	24.881	22.570
70	24.838	25.913	25.085	22.450	21.998	22.698	21.172
75	18.861	20.428	19.639	13.744	14.837	16.772	14.905
80	14.763	15.343	15.081	6.616	8.271	9.036	8.271
85	10.756	9.539	10.890	2.610	3.442	3.718	4.597
90	0.000	0.000	0.000	0.000	0.000	0.000	1.629
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	849.27	N.A.	48.50
0-30	1387.52	N.A.	79.20
0-40	1605.47	N.A.	91.60
0-60	1699.43	N.A.	97.00
0-80	1742.99	N.A.	99.50
0-90	1751.35	N.A.	100.00
10-90	1491.26	N.A.	85.10
20-40	756.21	N.A.	43.20
20-50	816.75	N.A.	46.60
40-70	118.82	N.A.	6.80
60-80	43.56	N.A.	2.50
70-80	18.70	N.A.	1.10
80-90	8.37	N.A.	0.50
90-110	0.64	N.A.	0.00
90-120	0.64	N.A.	0.00
90-130	0.64	N.A.	0.00
90-150	0.64	N.A.	0.00
90-180	0.64	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1752.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.09
10-20	589.17
20-30	538.25
30-40	217.96
40-50	60.54
50-60	33.41
60-70	24.86
70-80	18.70
80-90	8.37
90-100	0.64
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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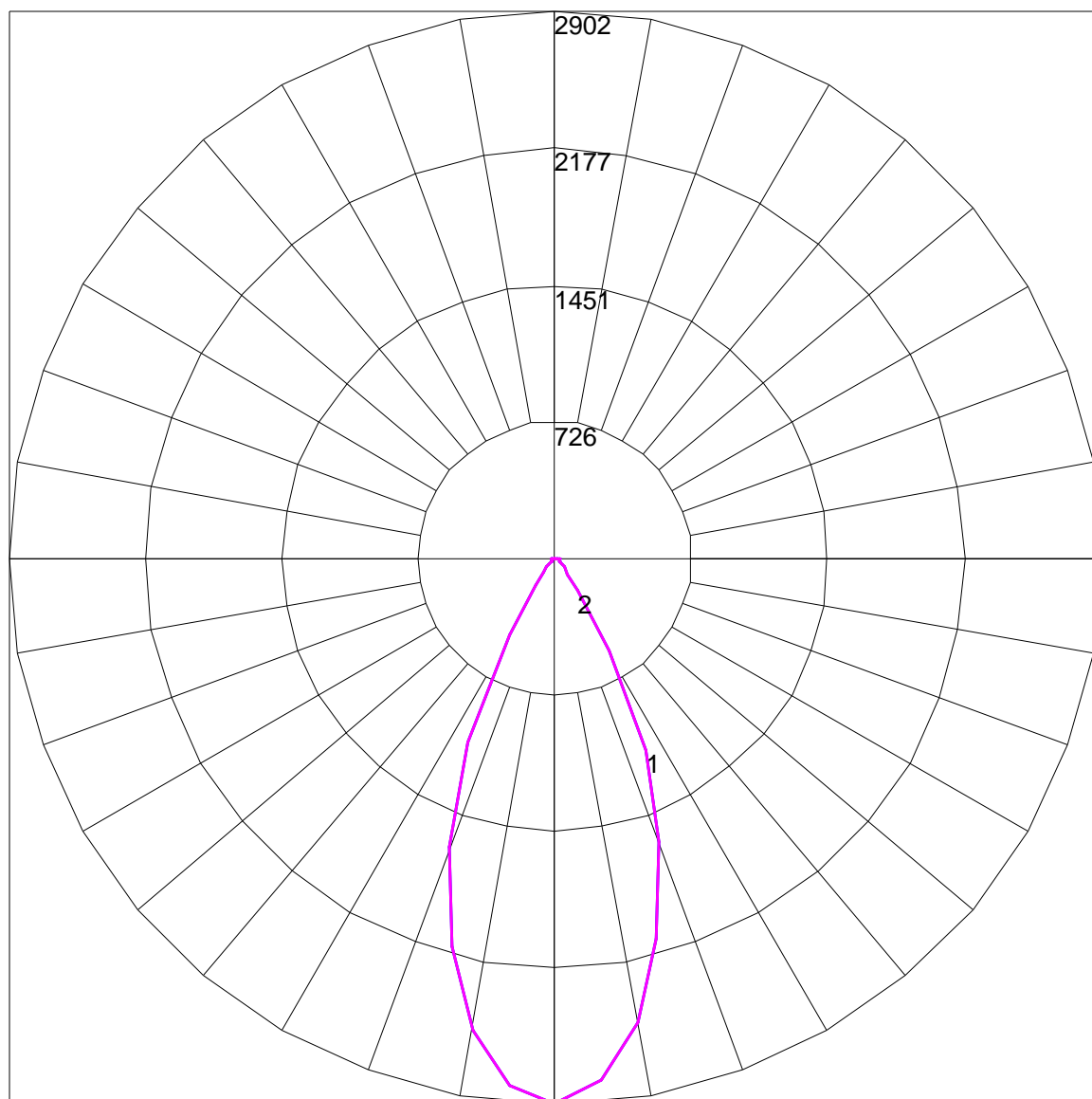
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	98	95	98	95	93	95	93	91	92	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	71	77	73	70	76	72	70	68
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65
8	82	73	67	63	81	72	67	63	71	67	63	70	66	63	69	65	63	61
9	79	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

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POLAR GRAPH



Maximum Candela = 2902.242 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)