

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_1 ~ C0611SQXT-20LXXK-MDEX-TCY-GLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618_1_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-xxK-MD-EX-TCY-GL-xx-MW

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

[OTHER] Upper, Internal Reflector, Medium Beam

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

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 38 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	1738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.68
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_1 ~ C0611SQXT-20LXXK-MDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7673	8146	7483
55	5413	5767	5084
65	5199	5646	4654
75	5670	5756	5589
85	3724	5483	6195

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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	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934
5	3301.350	3295.925	3298.330	3343.970	3327.578	3314.157	3341.938	3310.186	3309.629	3295.661
10	2838.451	2836.967	2845.162	2873.524	2877.061	2868.031	2884.326	2859.690	2855.529	2838.455
15	2220.792	2228.694	2244.418	2246.046	2256.247	2265.719	2265.820	2253.727	2243.046	2232.139
20	1620.492	1639.926	1668.227	1638.622	1626.297	1651.475	1672.167	1652.521	1615.064	1624.823
25	1057.336	1150.936	1198.855	1091.881	1005.556	1094.769	1191.534	1134.761	993.248	1075.100
30	449.164	673.917	824.630	514.991	420.872	548.381	839.148	605.358	418.749	488.340
35	149.185	228.446	443.419	134.522	122.956	181.575	446.615	208.407	123.067	163.312
40	74.105	79.439	139.980	76.109	72.420	77.804	110.062	77.708	70.600	77.495
45	50.601	52.447	53.721	51.763	49.353	52.373	53.281	50.706	47.434	53.365
50	37.437	38.113	39.289	40.133	34.519	39.615	40.519	36.060	35.073	39.571
55	28.959	30.289	30.851	29.353	27.197	30.745	32.487	30.072	26.997	30.193
60	22.750	24.800	25.349	24.259	22.076	25.506	27.479	26.691	22.658	24.853
65	20.492	21.438	22.254	20.670	18.343	24.229	23.642	24.761	21.764	22.238
70	17.812	17.943	19.377	19.560	16.172	23.212	22.647	22.501	22.583	24.150
75	13.686	13.355	13.894	15.745	13.491	22.513	20.309	19.810	17.320	19.409
80	7.808	8.344	8.668	9.806	9.958	19.062	17.949	16.986	15.043	15.819
85	3.027	3.778	4.457	5.164	5.036	13.471	12.495	12.427	12.617	10.951
90	0.978	1.160	0.982	1.813	1.749	10.924	10.636	10.092	2.007	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	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934	3481.934
5	3292.435	3341.758	3330.193	3321.097	3346.245	3305.707	3301.350
10	2838.338	2877.384	2876.051	2874.405	2886.058	2854.030	2838.451
15	2240.137	2242.194	2246.343	2259.021	2263.849	2248.896	2220.792
20	1665.017	1641.229	1626.624	1657.242	1662.390	1655.477	1620.492
25	1195.553	1149.767	1046.084	1151.507	1186.829	1139.478	1057.336
30	834.647	670.369	417.286	623.841	855.989	601.226	449.164
35	430.619	174.880	143.993	221.364	490.985	204.359	149.185
40	142.622	79.573	75.836	86.132	135.491	84.257	74.105
45	58.078	54.509	53.566	57.636	59.416	57.236	50.601

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50	42.289	42.066	38.446	42.543	42.913	43.254	37.437
55	33.012	31.878	30.394	32.591	35.789	33.717	28.959
60	27.647	26.817	24.169	26.771	29.205	26.165	22.750
65	27.191	23.070	21.243	23.118	23.069	23.138	20.492
70	21.452	23.750	19.830	19.788	16.799	19.070	17.812
75	19.208	18.691	16.601	12.913	11.911	14.685	13.686
80	14.891	14.633	13.653	6.528	8.534	8.144	7.808
85	11.063	11.247	8.876	2.403	2.913	2.822	3.027
90	0.000	0.000	0.000	0.000	0.000	0.000	0.978
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	926.13	N.A.	53.30
0-30	1434.44	N.A.	82.50
0-40	1615.66	N.A.	92.90
0-60	1689.57	N.A.	97.20
0-80	1729.44	N.A.	99.50
0-90	1737.64	N.A.	100.00
10-90	1435.32	N.A.	82.60
20-40	689.53	N.A.	39.70
20-50	735.10	N.A.	42.30
40-70	96.45	N.A.	5.50
60-80	39.87	N.A.	2.30
70-80	17.32	N.A.	1.00
80-90	8.20	N.A.	0.50
90-110	0.69	N.A.	0.00
90-120	0.69	N.A.	0.00
90-130	0.69	N.A.	0.00
90-150	0.69	N.A.	0.00
90-180	0.69	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1738.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	302.31
10-20	623.82
20-30	508.31
30-40	181.22
40-50	45.57
50-60	28.33
60-70	22.54
70-80	17.32
80-90	8.20
90-100	0.69
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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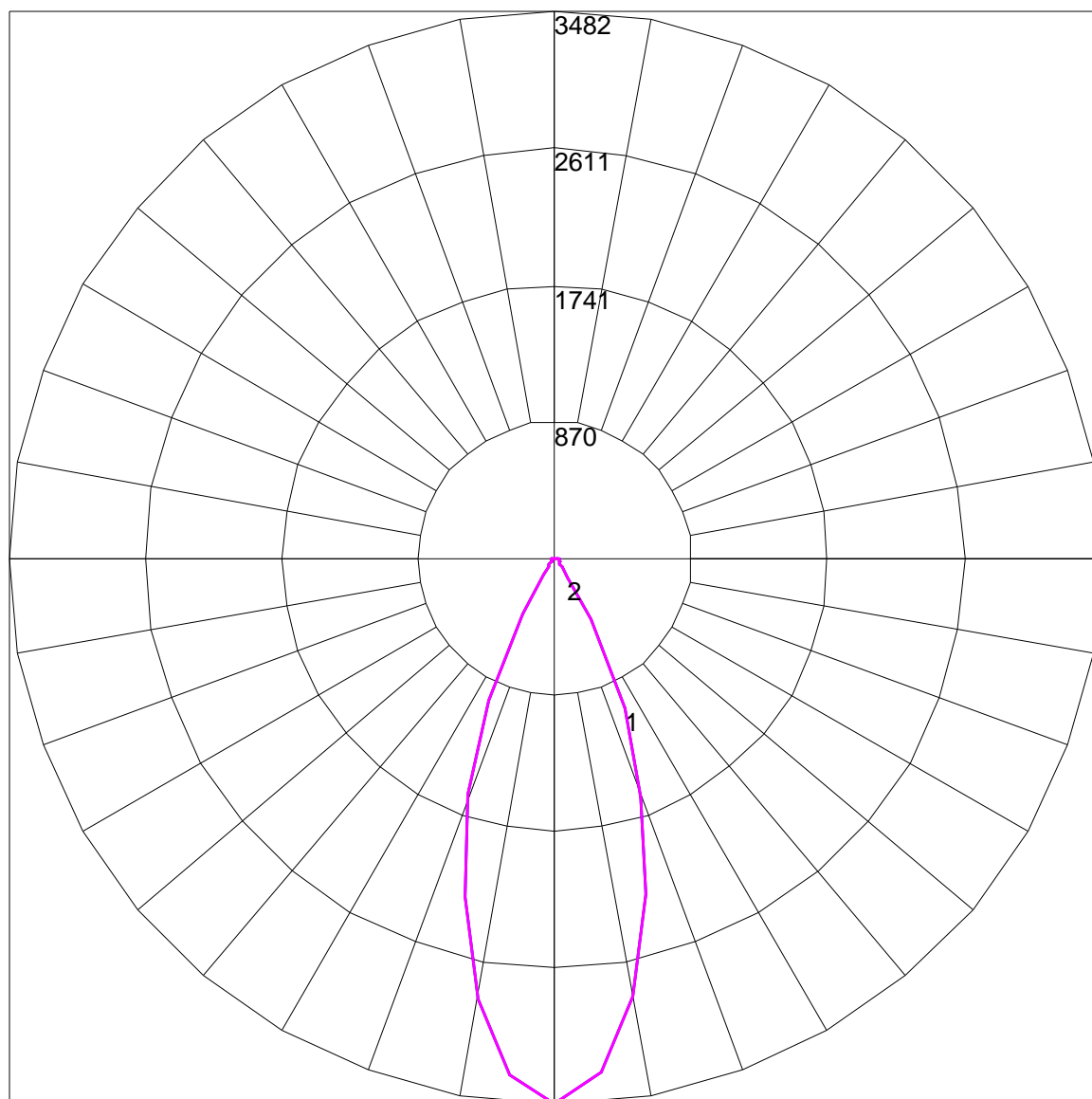
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	66	72	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 3481.934 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)