

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_3 ~ C0611SQXT-13LXXK-MDEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_3_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-13L-xxK-MD-EX-TCY-SO-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] Solite Lens, Flush with Lower Trim
 [OTHER] 38.6 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	1150
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.64
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_3 ~ C0611SQXT-13LXXK-MDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5541	6027	5193
55	4045	4133	3614
65	3900	3940	3364
75	3799	4298	4452
85	2825	4249	4552

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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	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476
5	2121.012	2113.173	2136.175	2135.405	2141.994	2140.285	2129.007	2133.232	2124.966	2118.542
10	1830.884	1820.879	1839.481	1850.489	1855.748	1855.231	1847.934	1849.357	1837.515	1834.065
15	1447.236	1441.265	1454.498	1468.501	1470.981	1473.886	1474.491	1467.417	1455.259	1455.594
20	1066.003	1074.560	1088.642	1082.420	1073.437	1086.952	1104.639	1087.559	1060.719	1072.285
25	691.330	754.002	784.724	710.146	666.482	715.505	793.554	748.337	658.627	702.928
30	324.612	423.210	531.426	363.821	270.455	361.778	529.628	417.233	275.798	344.016
35	107.876	160.924	280.228	127.661	92.438	124.912	277.682	154.758	98.603	122.762
40	54.441	61.188	92.604	57.568	52.820	56.656	104.558	60.003	52.293	57.093
45	36.541	37.639	39.746	37.489	34.251	37.794	42.712	38.224	35.576	38.523
50	27.366	27.953	28.147	27.659	24.783	27.719	27.635	28.116	24.919	29.052
55	21.641	22.071	22.111	21.175	19.336	22.203	21.922	21.907	19.742	22.636
60	17.595	17.468	18.425	17.246	15.234	19.063	18.391	17.431	17.065	18.564
65	15.373	15.240	15.529	15.167	13.258	16.876	16.781	16.231	13.904	17.174
70	12.814	14.012	13.535	13.048	12.831	16.058	15.947	15.848	14.901	15.875
75	9.171	10.134	10.374	10.559	10.746	15.757	14.425	14.609	13.708	13.866
80	5.455	5.841	6.362	6.728	7.252	12.135	11.872	10.606	10.929	10.174
85	2.296	2.426	3.454	3.800	3.700	10.338	9.664	8.496	7.995	7.375
90	0.919	0.764	1.238	1.056	1.339	7.771	6.410	6.442	0.077	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. Angles **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	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476	2237.476
5	2133.764	2132.974	2145.229	2141.472	2131.374	2126.666	2121.012
10	1842.640	1844.525	1856.830	1856.175	1850.653	1839.364	1830.884
15	1455.337	1455.069	1469.242	1465.427	1474.451	1458.624	1447.236
20	1083.580	1083.178	1077.504	1086.277	1104.765	1085.308	1066.003
25	781.545	767.778	701.700	766.242	799.860	748.881	691.330
30	538.872	446.144	324.450	425.229	550.151	389.353	324.612
35	281.820	158.061	107.637	145.191	314.976	137.887	107.876
40	92.480	63.900	57.268	63.846	128.350	61.935	54.441
45	43.995	40.804	38.330	40.988	50.457	40.699	36.541

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50	31.416	30.799	28.484	30.913	32.589	30.459	27.366
55	24.548	24.645	22.163	24.039	26.938	24.970	21.641
60	20.608	20.506	17.884	19.015	22.122	19.370	17.595
65	17.317	18.389	16.468	16.856	17.456	16.283	15.373
70	15.934	16.670	14.959	13.410	13.740	13.513	12.814
75	13.111	13.130	12.355	10.108	9.549	10.295	9.171
80	10.037	9.579	9.147	4.746	5.378	5.530	5.455
85	7.036	7.724	6.415	2.105	2.547	2.189	2.296
90	0.000	0.000	0.000	0.000	0.000	0.000	0.919
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	600.26	N.A.	52.20
0-30	935.87	N.A.	81.40
0-40	1060.37	N.A.	92.20
0-60	1115.07	N.A.	97.00
0-80	1143.62	N.A.	99.50
0-90	1149.29	N.A.	100.00
10-90	954.82	N.A.	83.00
20-40	460.11	N.A.	40.00
20-50	494.16	N.A.	43.00
40-70	70.90	N.A.	6.20
60-80	28.55	N.A.	2.50
70-80	12.36	N.A.	1.10
80-90	5.67	N.A.	0.50
90-110	0.45	N.A.	0.00
90-120	0.45	N.A.	0.00
90-130	0.45	N.A.	0.00
90-150	0.45	N.A.	0.00
90-180	0.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1149.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.47
10-20	405.79
20-30	335.62
30-40	124.49
40-50	34.05
50-60	20.65
60-70	16.20
70-80	12.36
80-90	5.67
90-100	0.45
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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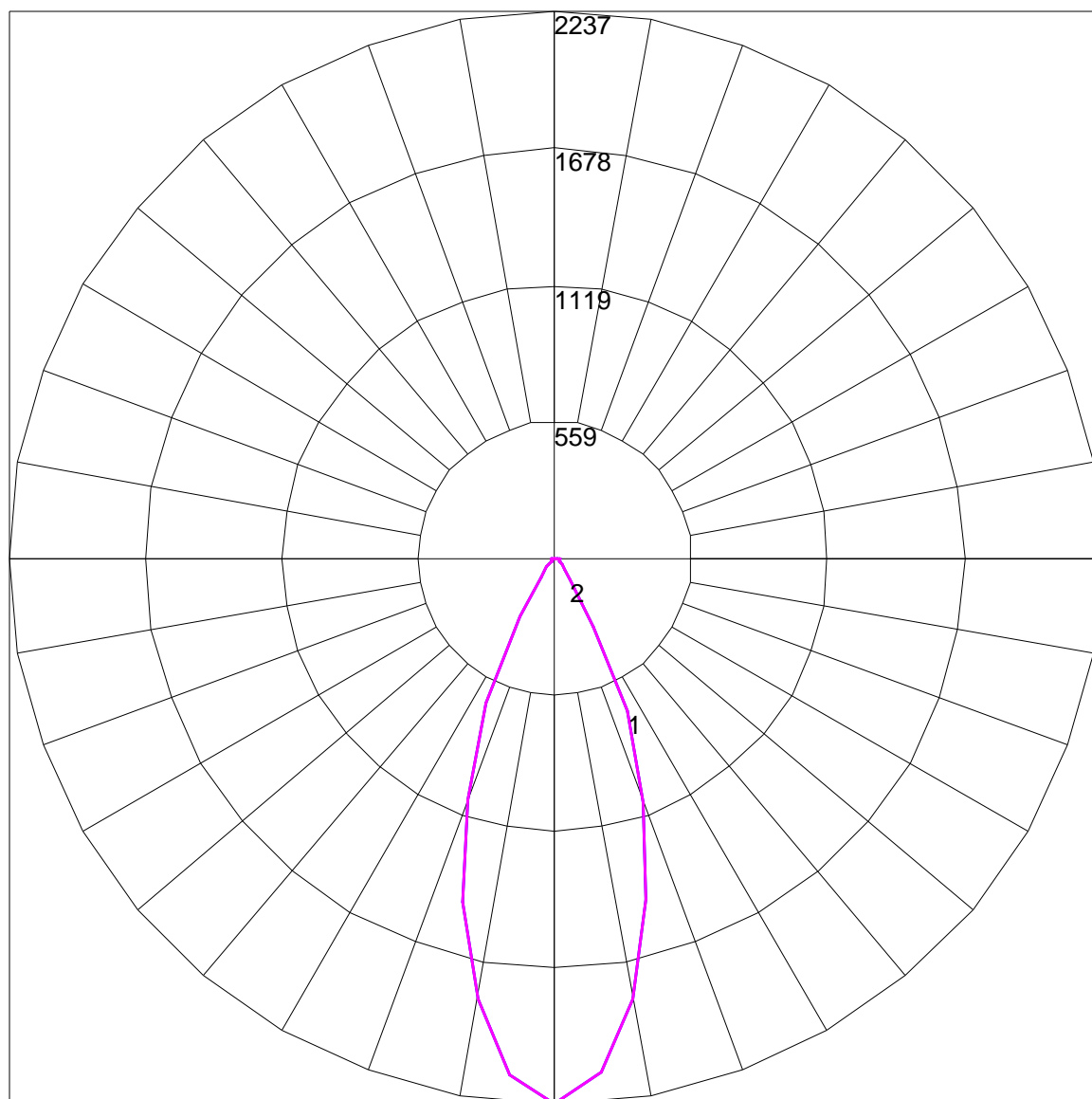
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	104	105	103	101	101	99	98	97	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	99	92	86	82	97	91	86	82	88	84	81	86	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	72	77	74	71	70
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	68	62	59	67	62	59	66	62	59	65	61	59	57

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POLAR GRAPH



Maximum Candela = 2237.476 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)