

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_1 ~ C0611SQXT-13LXXK-MDEX-TCY-GLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_1_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-13L-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
 [LAMPCAT] 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	1130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	13
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-13LXXK-MDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4986	5294	4863
55	3518	3748	3304
65	3379	3670	3024
75	3685	3741	3632
85	2421	3564	4026

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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	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970
5	2145.605	2142.080	2143.643	2173.304	2162.651	2153.929	2171.984	2151.347	2150.986	2141.908
10	1844.759	1843.794	1849.120	1867.554	1869.852	1863.983	1874.574	1858.562	1855.859	1844.761
15	1443.331	1448.467	1458.687	1459.744	1466.374	1472.530	1472.596	1464.736	1457.795	1450.706
20	1053.186	1065.817	1084.210	1064.969	1056.959	1073.322	1086.771	1074.002	1049.658	1056.001
25	687.181	748.013	779.157	709.632	653.528	711.509	774.399	737.501	645.529	698.727
30	291.919	437.990	535.941	334.702	273.532	356.403	545.377	393.432	272.152	317.381
35	96.958	148.471	288.186	87.428	79.911	118.009	290.263	135.447	79.984	106.139
40	48.162	51.629	90.976	49.465	47.067	50.566	71.531	50.504	45.884	50.365
45	32.886	34.086	34.914	33.642	32.075	34.038	34.628	32.955	30.828	34.683
50	24.331	24.770	25.535	26.083	22.435	25.747	26.334	23.436	22.795	25.718
55	18.821	19.685	20.051	19.077	17.676	19.982	21.114	19.544	17.546	19.623
60	14.786	16.118	16.475	15.766	14.347	16.577	17.859	17.347	14.726	16.153
65	13.318	13.933	14.464	13.434	11.921	15.747	15.365	16.093	14.145	14.453
70	11.576	11.661	12.593	12.712	10.511	15.086	14.719	14.624	14.677	15.695
75	8.895	8.679	9.030	10.233	8.768	14.632	13.199	12.875	11.257	12.614
80	5.074	5.423	5.634	6.373	6.472	12.388	11.665	11.040	9.777	10.281
85	1.968	2.455	2.897	3.356	3.273	8.755	8.120	8.076	8.200	7.117
90	0.636	0.754	0.638	1.179	1.137	7.100	6.912	6.559	1.305	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	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970	2262.970
5	2139.811	2171.867	2164.350	2158.439	2174.783	2148.437	2145.605
10	1844.685	1870.062	1869.196	1868.126	1875.700	1854.884	1844.759
15	1455.904	1457.241	1459.938	1468.177	1471.315	1461.597	1443.331
20	1082.123	1066.664	1057.171	1077.070	1080.416	1075.923	1053.186
25	777.011	747.254	679.868	748.384	771.341	740.566	687.181
30	542.452	435.684	271.201	405.445	556.322	390.747	291.919
35	279.867	113.658	93.584	143.869	319.100	132.816	96.958
40	92.693	51.716	49.287	55.979	88.058	54.760	48.162
45	37.746	35.427	34.813	37.459	38.616	37.198	32.886

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50	27.485	27.339	24.987	27.649	27.890	28.112	24.331
55	21.455	20.718	19.753	21.181	23.260	21.913	18.821
60	17.968	17.429	15.708	17.399	18.981	17.005	14.786
65	17.672	14.994	13.806	15.025	14.993	15.038	13.318
70	13.942	15.435	12.888	12.860	10.918	12.394	11.576
75	12.483	12.148	10.789	8.393	7.741	9.544	8.895
80	9.678	9.510	8.873	4.242	5.546	5.293	5.074
85	7.190	7.310	5.769	1.562	1.893	1.834	1.968
90	0.000	0.000	0.000	0.000	0.000	0.000	0.636
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	601.91	N.A.	53.30
0-30	932.27	N.A.	82.50
0-40	1050.05	N.A.	92.90
0-60	1098.08	N.A.	97.20
0-80	1123.99	N.A.	99.50
0-90	1129.32	N.A.	100.00
10-90	932.84	N.A.	82.60
20-40	448.14	N.A.	39.70
20-50	477.76	N.A.	42.30
40-70	62.69	N.A.	5.50
60-80	25.91	N.A.	2.30
70-80	11.26	N.A.	1.00
80-90	5.33	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	1129.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.48
10-20	405.43
20-30	330.36
30-40	117.78
40-50	29.62
50-60	18.41
60-70	14.65
70-80	11.26
80-90	5.33
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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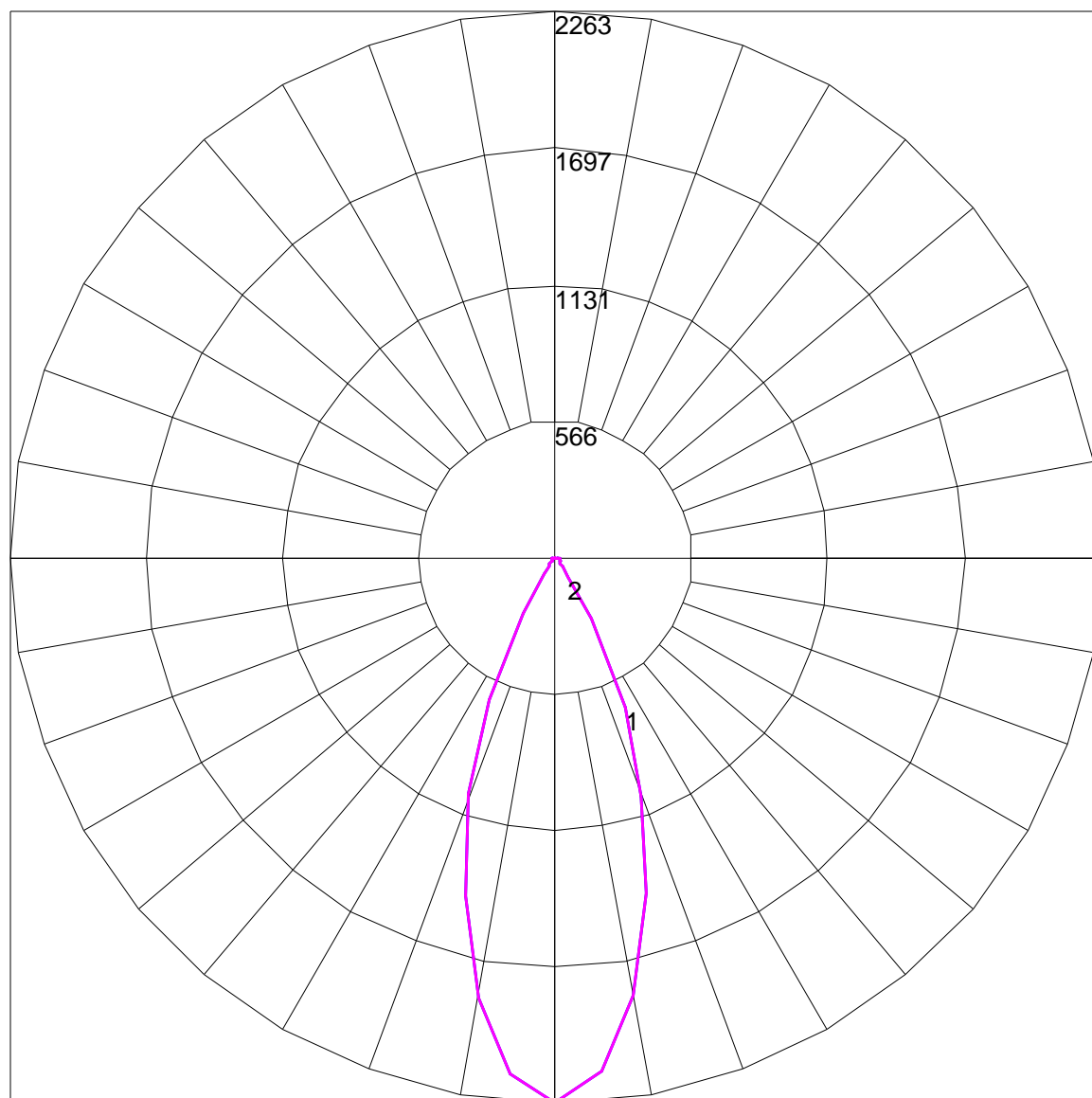
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	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	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	80	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 = 2262.97 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)