

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_10 ~ C0611SQXT-30LXXK-WDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00618_10
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/26/2018
[LUMCAT] C0611SQXT-30L-xxK-WD-EX-TCY-NL-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] No Lens, Flush with Lower Trim
[OTHER] 43.1 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	32.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15134	15350	14177
55	9293	10536	8038
65	8883	9816	8745
75	10076	9796	10280
85	5436	9122	8987

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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	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547
5	4546.161	4543.627	4568.744	4577.760	4583.512	4564.479	4562.599	4562.901	4549.705	4531.703
10	4109.459	4105.133	4128.061	4148.651	4164.498	4148.229	4148.481	4147.414	4126.074	4100.600
15	3420.040	3418.282	3447.563	3466.905	3478.769	3479.699	3488.962	3478.767	3447.146	3432.767
20	2623.136	2628.384	2662.882	2643.313	2630.718	2677.785	2704.650	2674.686	2633.895	2637.117
25	1788.920	1945.944	1989.074	1864.243	1764.363	1872.406	2033.317	1917.635	1712.643	1826.136
30	834.866	1121.436	1456.008	950.791	756.411	985.120	1474.990	1047.325	751.719	892.001
35	297.121	412.481	783.717	281.341	251.132	337.470	770.001	373.144	271.423	315.451
40	155.483	161.559	221.412	151.995	146.682	159.593	253.958	160.052	150.572	157.427
45	99.810	104.812	101.237	99.873	93.497	105.846	106.806	103.064	94.396	105.039
50	67.859	73.423	71.574	67.684	61.901	73.696	76.061	72.235	62.282	71.774
55	49.715	53.621	56.364	50.705	43.002	53.956	56.387	53.483	44.953	51.186
60	39.487	44.507	46.305	42.675	34.689	43.654	46.918	43.523	39.278	42.477
65	35.014	39.524	38.691	38.102	34.469	41.954	44.758	42.478	38.607	41.889
70	32.830	35.575	32.557	34.938	32.399	41.874	41.311	40.919	39.287	40.919
75	24.322	26.455	23.647	28.233	24.816	40.889	32.625	37.115	33.232	35.988
80	13.441	16.238	14.123	16.542	16.948	31.629	27.714	28.642	26.473	28.631
85	4.419	5.581	7.415	6.791	7.305	22.994	20.573	19.917	18.794	20.368
90	2.051	2.033	2.799	2.150	3.113	16.132	16.450	16.590	6.774	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	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547	4704.547
5	4550.293	4569.980	4585.464	4568.351	4561.035	4549.107	4546.161
10	4118.733	4133.392	4155.506	4135.733	4136.481	4122.079	4109.459
15	3441.282	3424.461	3432.213	3435.514	3462.852	3443.748	3420.040
20	2645.283	2611.603	2612.331	2651.123	2683.903	2657.613	2623.136
25	1973.060	1944.953	1855.064	1974.949	2045.244	1948.773	1788.920
30	1501.521	1157.663	763.448	1085.785	1540.315	1037.356	834.866
35	749.629	326.818	268.874	396.111	893.380	380.612	297.121
40	183.096	163.656	163.518	183.944	317.894	177.583	155.483
45	102.656	104.261	100.125	116.272	123.955	115.734	99.810

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50	76.569	74.484	66.200	78.422	84.947	78.224	67.859
55	58.009	55.856	44.877	54.021	61.844	56.941	49.715
60	47.655	45.971	38.419	44.188	48.694	46.471	39.487
65	43.576	43.792	40.196	41.494	40.118	40.755	35.014
70	37.817	40.858	34.139	34.750	33.917	35.822	32.830
75	33.369	31.254	29.943	22.433	21.922	27.131	24.322
80	23.474	24.058	21.000	11.764	13.315	13.568	13.441
85	18.108	18.623	16.145	5.297	4.714	4.632	4.419
90	0.000	0.000	0.000	0.000	0.000	0.000	2.051
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	1374.2	N.A.	49.40
0-30	2229.82	N.A.	80.10
0-40	2559.45	N.A.	92.00
0-60	2697.77	N.A.	96.90
0-80	2768.45	N.A.	99.50
0-90	2782.05	N.A.	100.00
10-90	2360.28	N.A.	84.80
20-40	1185.24	N.A.	42.60
20-50	1274.11	N.A.	45.80
40-70	178.24	N.A.	6.40
60-80	70.68	N.A.	2.50
70-80	30.76	N.A.	1.10
80-90	13.60	N.A.	0.50
90-110	1.17	N.A.	0.00
90-120	1.17	N.A.	0.00
90-130	1.17	N.A.	0.00
90-150	1.17	N.A.	0.00
90-180	1.17	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2783.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	421.78
10-20	952.43
20-30	855.62
30-40	329.62
40-50	88.87
50-60	49.46
60-70	39.91
70-80	30.76
80-90	13.60
90-100	1.17
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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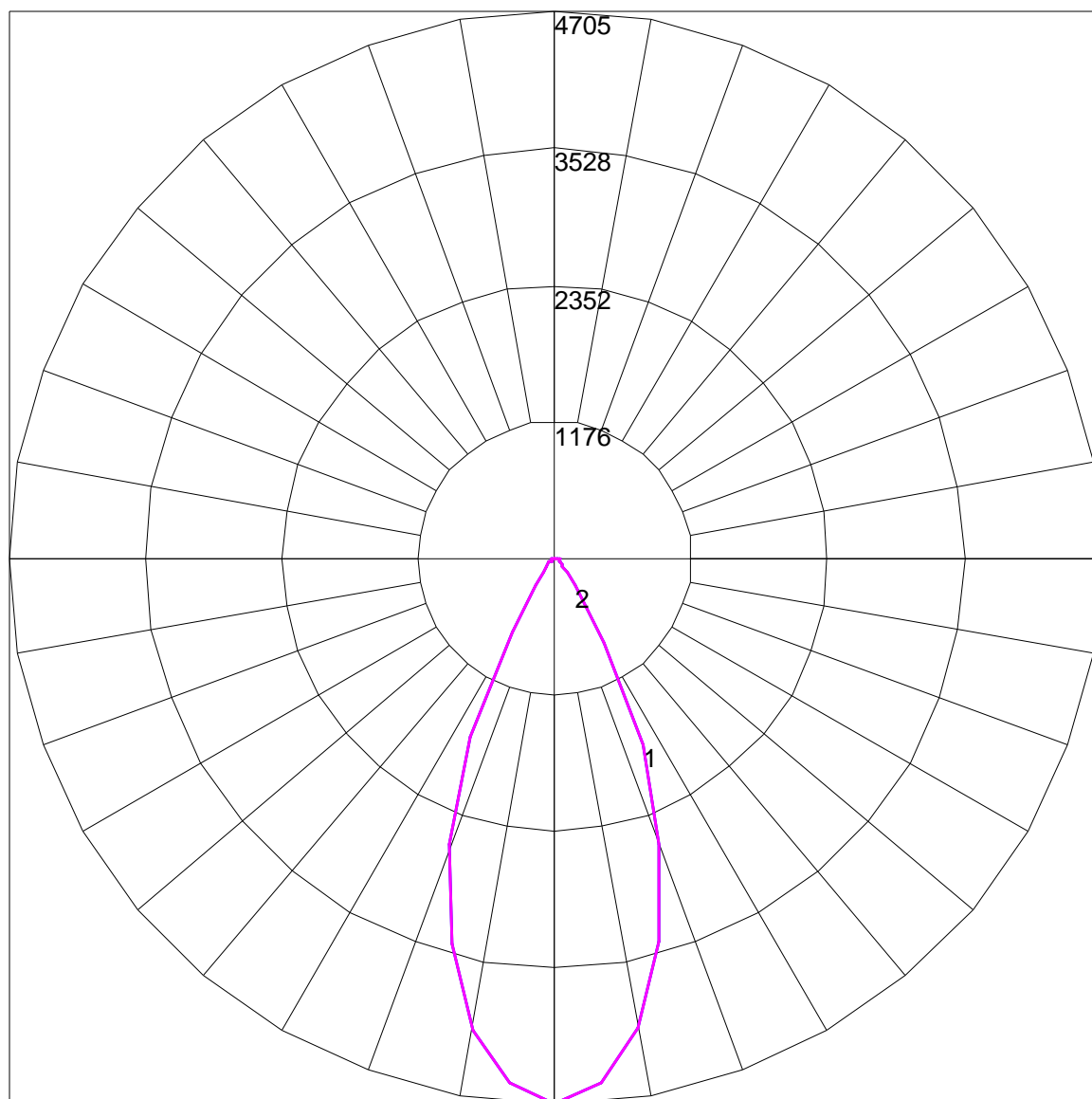
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69
7	86	77	72	68	85	77	71	67	75	71	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	68	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	61	78	69	64	61	69	64	60	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	58	65	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 4704.547 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)