

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_18 ~ C0611SQXT-10LXXK-XWEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618_18_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-10L-xxK-XW-EX-TCY-NL-xx-MW

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

[OTHER] Upper, Internal Reflector, Xtra Wide Beam

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

[OTHER] No Lens, Flush with Lower Trim

[OTHER] 52.8 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	918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	7924	7923	7895
55	3366	4237	3263
65	3220	3392	3017
75	3375	3504	3718
85	2372	2997	3586

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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	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236
5	1107.440	1102.736	1106.090	1109.690	1107.731	1111.691	1108.472	1109.544	1109.595	1109.477
10	1055.583	1049.754	1054.057	1064.927	1063.558	1067.103	1058.763	1060.527	1059.001	1059.409
15	964.013	959.301	972.448	984.491	979.853	990.112	980.889	978.065	975.905	981.202
20	829.970	827.794	848.955	863.768	851.347	861.072	855.866	846.132	841.934	859.310
25	652.365	687.575	718.070	700.349	648.729	706.527	722.386	700.714	656.977	693.596
30	336.492	427.337	561.937	410.190	324.857	422.043	571.480	431.286	328.889	413.434
35	142.517	154.500	295.840	180.362	152.800	166.853	315.024	166.265	149.599	168.429
40	85.530	82.227	95.205	92.589	88.638	93.111	102.621	92.579	90.108	93.952
45	52.261	51.135	52.255	56.250	52.069	57.109	56.805	56.561	53.400	57.147
50	30.609	32.032	33.418	33.820	30.144	34.299	35.022	34.079	30.155	34.128
55	18.006	20.552	22.667	20.659	17.458	21.529	22.772	20.755	17.780	21.349
60	13.445	14.797	16.267	14.282	12.386	15.411	16.607	15.296	13.487	15.432
65	12.694	13.015	13.371	12.699	11.892	13.847	14.602	13.898	12.845	13.867
70	11.251	11.563	11.049	11.820	10.629	13.614	13.180	13.593	12.578	13.743
75	8.148	8.655	8.458	9.805	8.976	12.730	11.786	11.792	10.951	12.302
80	4.669	4.703	4.993	6.010	6.176	10.353	9.315	9.886	9.010	9.609
85	1.928	1.931	2.436	3.234	2.915	7.906	7.662	7.546	6.705	6.952
90	0.000	0.000	0.695	1.118	0.859	5.862	5.310	5.202	5.035	4.988
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	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236	1126.236
5	1107.090	1104.070	1109.600	1111.044	1112.545	1108.039	1107.440
10	1057.704	1050.265	1059.618	1061.121	1066.420	1060.809	1055.583
15	976.879	954.390	965.332	966.487	982.501	975.383	964.013
20	855.705	831.433	839.254	834.926	854.371	844.752	829.970
25	723.929	689.314	643.664	684.237	721.698	688.163	652.365
30	561.780	416.273	348.560	425.312	569.833	427.948	336.492
35	320.085	177.140	156.479	167.404	350.163	169.396	142.517
40	120.773	87.958	89.885	89.976	142.621	92.021	85.530
45	57.309	54.010	54.252	55.712	60.778	58.142	52.261

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50	36.311	33.510	31.660	33.723	38.705	35.773	30.609
55	24.432	20.960	18.340	20.721	25.498	21.637	18.006
60	17.897	15.820	14.083	14.632	17.826	15.562	13.445
65	15.110	15.002	13.543	12.838	13.909	13.751	12.694
70	13.272	13.605	12.253	10.660	11.444	11.790	11.251
75	10.648	11.091	10.629	7.603	7.953	8.619	8.148
80	8.176	8.551	7.418	4.088	4.628	4.677	4.669
85	6.817	6.028	6.488	1.705	1.776	2.059	1.928
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	374.95	N.A.	40.80
0-30	678.60	N.A.	73.90
0-40	822.34	N.A.	89.60
0-60	888.58	N.A.	96.80
0-80	912.48	N.A.	99.40
0-90	917.41	N.A.	99.90
10-90	813.15	N.A.	88.60
20-40	447.39	N.A.	48.70
20-50	493.42	N.A.	53.80
40-70	79.77	N.A.	8.70
60-80	23.90	N.A.	2.60
70-80	10.37	N.A.	1.10
80-90	4.93	N.A.	0.50
90-110	0.50	N.A.	0.10
90-120	0.50	N.A.	0.10
90-130	0.50	N.A.	0.10
90-150	0.50	N.A.	0.10
90-180	0.50	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	917.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.26
10-20	270.69
20-30	303.65
30-40	143.74
40-50	46.03
50-60	20.21
60-70	13.53
70-80	10.37
80-90	4.93
90-100	0.50
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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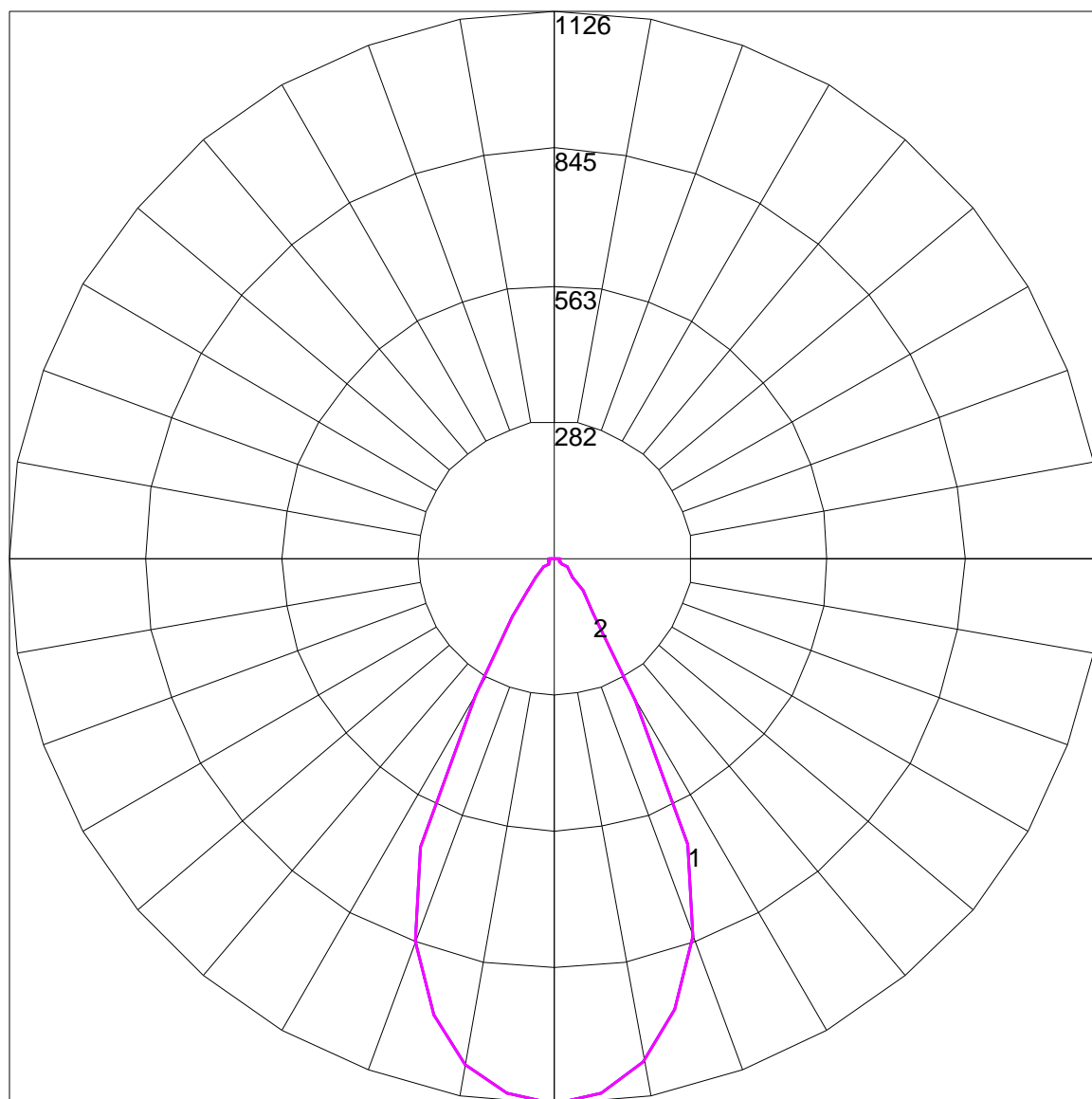
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	53	51

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POLAR GRAPH



Maximum Candela = 1126.236 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)