

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_3 ~ C08XXSQXT-13LXXK-MDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_3_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-13L-xxK-MD-EX-TSG-SO
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders
[OTHER] Upper, Internal Reflector, Medium Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Solite Lens, Regressed in Lower Trim
[OTHER] 41.1 Degree Beam Angle
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] Former Cat. No: SPC08SQ-LEDXT-series
[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	1011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3064	1768	4070
55	558	357	580
65	180	143	173
75	114	135	99
85	421	199	313

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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	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066
5	1695.721	1722.149	1723.485	1747.307	1748.953	1722.456	1725.671	1707.425	1706.241	1680.882
10	1475.141	1518.593	1526.197	1569.866	1574.918	1527.096	1528.856	1490.637	1493.562	1451.304
15	1183.465	1236.589	1248.659	1296.806	1302.107	1251.852	1255.920	1203.566	1207.387	1165.812
20	901.386	959.359	976.996	1009.096	1010.303	968.633	972.869	924.018	924.552	908.765
25	666.757	716.041	725.798	761.798	755.404	712.359	707.446	682.798	688.751	686.141
30	463.072	461.577	444.787	535.097	539.128	454.501	435.802	458.263	489.158	439.643
35	273.936	215.322	200.554	308.212	336.995	218.970	194.691	245.265	303.382	206.120
40	127.161	77.750	73.088	130.673	168.091	77.374	65.245	98.324	152.103	79.077
45	50.363	28.350	29.056	48.423	66.906	25.928	23.271	33.653	63.484	30.720
50	18.739	12.227	12.008	19.049	22.557	11.045	9.861	12.165	25.419	13.509
55	7.438	5.743	4.756	7.793	7.738	4.707	3.992	6.724	10.007	6.761
60	3.464	2.349	2.503	3.690	3.055	2.534	2.272	3.563	4.408	4.218
65	1.771	1.829	1.409	1.866	1.698	2.068	2.265	2.829	2.937	2.779
70	0.800	1.133	1.192	0.845	0.774	2.618	2.457	1.951	2.281	2.748
75	0.685	0.792	0.811	0.712	0.597	2.083	2.322	2.253	2.661	2.471
80	0.663	0.561	0.712	0.651	0.617	3.068	3.330	3.272	2.423	2.938
85	0.854	0.637	0.403	0.576	0.634	3.482	3.521	3.800	3.823	4.455
90	0.777	0.287	0.589	0.323	0.759	5.054	2.085	5.242	2.549	4.253
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	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066	1779.066
5	1674.381	1642.886	1639.612	1675.181	1677.144	1701.468	1695.721
10	1444.507	1395.190	1391.387	1446.078	1447.009	1482.880	1475.141
15	1162.620	1105.038	1100.462	1162.902	1165.018	1196.425	1183.465
20	906.427	844.371	831.010	896.866	902.023	920.243	901.386
25	675.620	625.695	607.572	660.152	661.383	686.136	666.757
30	421.004	417.155	412.585	413.316	395.384	471.027	463.072
35	191.792	219.158	239.596	190.450	172.852	262.534	273.936
40	70.919	91.743	114.266	67.063	59.564	109.264	127.161
45	28.182	35.246	47.355	24.915	23.098	37.415	50.363
50	12.821	14.250	18.384	11.918	9.775	13.642	18.739
55	6.241	6.256	8.228	5.035	3.832	6.066	7.438
60	3.765	3.099	4.372	1.934	2.074	2.888	3.464

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65	3.061	3.009	2.834	1.528	1.536	1.421	1.771
70	2.632	3.037	2.768	1.088	0.719	1.013	0.800
75	2.960	3.135	2.566	0.811	0.771	0.834	0.685
80	3.193	3.355	3.380	0.689	0.655	0.704	0.663
85	4.382	4.002	4.386	0.643	0.428	0.780	0.854
90	2.600	4.667	6.181	0.279	0.593	0.452	0.777
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	490.61	N.A.	48.50
0-30	804.75	N.A.	79.60
0-40	961.98	N.A.	95.10
0-60	1004.27	N.A.	99.30
0-80	1008.4	N.A.	99.70
0-90	1010.8	N.A.	99.90
10-90	855.29	N.A.	84.60
20-40	471.37	N.A.	46.60
20-50	506.87	N.A.	50.10
40-70	44.58	N.A.	4.40
60-80	4.13	N.A.	0.40
70-80	1.84	N.A.	0.20
80-90	2.40	N.A.	0.20
90-110	0.63	N.A.	0.10
90-120	0.63	N.A.	0.10
90-130	0.63	N.A.	0.10
90-150	0.63	N.A.	0.10
90-180	0.63	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1011.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.51
10-20	335.10
20-30	314.14
30-40	157.23
40-50	35.50
50-60	6.79
60-70	2.29
70-80	1.84
80-90	2.40
90-100	0.63
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

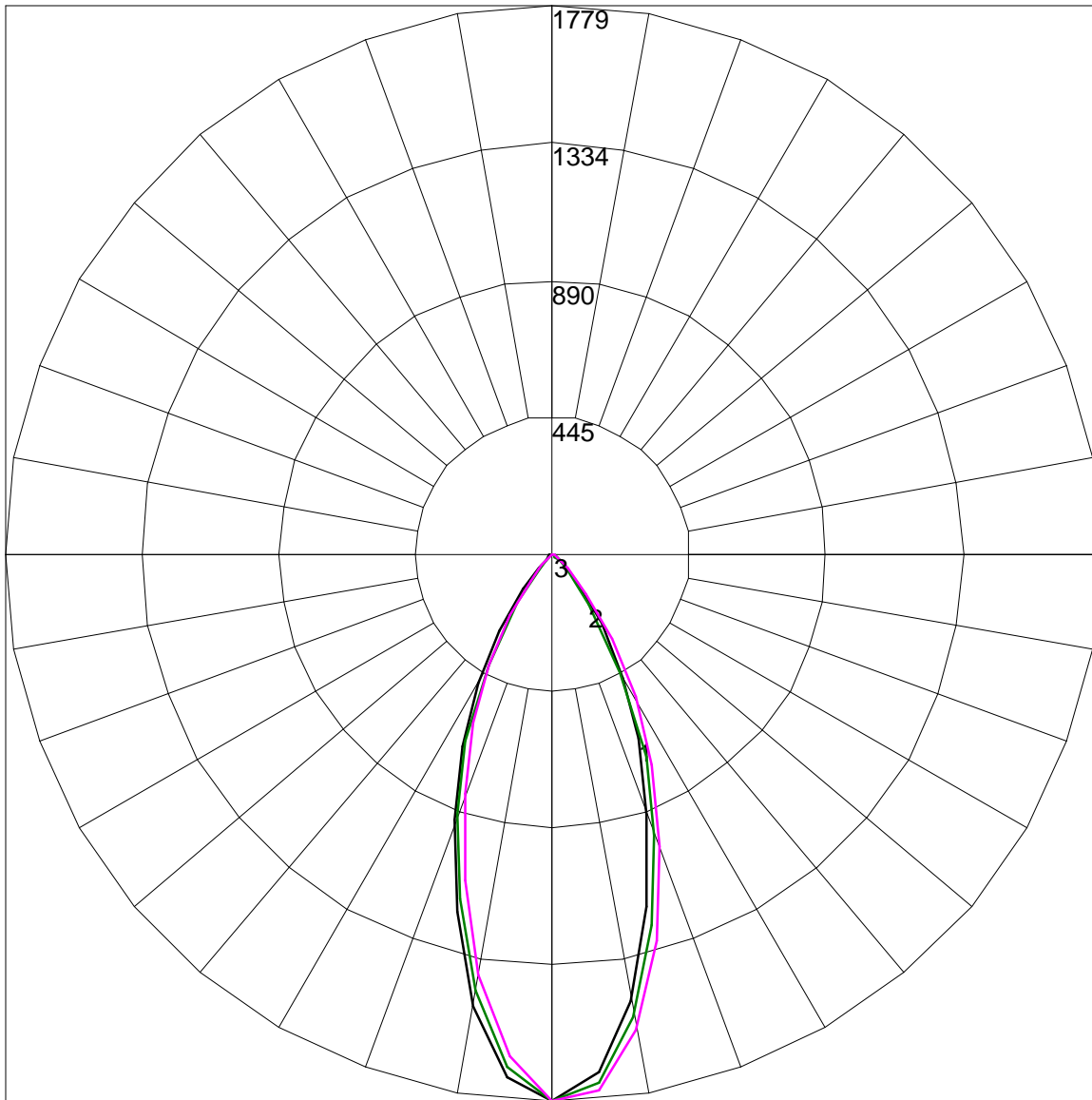
Effective Floor Cavity Reflectance 0.20

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	87	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	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	82	77	73	89	82	76	73	80	76	72	79	75	72	77	74	71	70
7	87	78	73	69	85	77	72	68	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63
9	79	71	65	61	78	70	65	61	69	64	61	68	64	61	68	64	61	60
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57

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POLAR GRAPH



Maximum Candela = 1779.066 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)