

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_2 ~ C08XXSQXT-13LXXK-MDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_2_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-NL
[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] No Lens
[OTHER] 40 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	1108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
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	1129	1118	1141
55	227	153	195
65	91	91	117
75	138	142	210
85	235	355	229

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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	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324
5	1903.766	1938.454	1946.774	1974.087	1976.645	1992.921	2018.971	2030.816	2047.195	2036.546
10	1591.320	1642.685	1653.739	1701.433	1701.635	1745.251	1801.959	1814.327	1846.354	1815.028
15	1230.432	1299.333	1310.534	1347.304	1333.732	1390.240	1464.087	1466.017	1510.795	1466.424
20	932.943	1017.971	1045.177	1032.532	992.881	1054.848	1121.891	1105.287	1141.521	1121.929
25	720.114	773.260	772.702	792.874	741.107	796.758	842.863	820.622	836.352	827.623
30	498.659	482.823	497.054	563.280	546.158	477.695	500.147	604.291	609.316	458.328
35	250.352	181.514	154.087	316.234	253.442	140.998	159.904	280.260	362.637	137.958
40	76.455	38.164	40.766	111.338	64.578	37.534	42.880	72.514	117.816	32.924
45	18.566	18.707	18.378	21.040	18.753	17.472	19.963	20.821	19.625	15.963
50	7.933	7.093	6.505	9.228	8.221	6.201	7.723	9.180	8.806	5.671
55	3.024	2.478	2.038	2.928	2.604	2.257	2.956	3.172	2.989	1.877
60	1.271	0.957	1.582	0.958	1.107	1.338	2.157	2.002	1.242	1.457
65	0.893	0.656	0.890	0.848	1.149	1.424	1.634	1.701	1.406	1.392
70	0.864	0.925	1.175	0.861	0.882	1.925	1.952	1.455	1.803	2.122
75	0.833	0.666	0.856	0.812	1.262	2.693	1.788	2.533	2.054	2.410
80	0.941	0.549	0.894	0.826	0.562	3.770	3.732	2.950	3.423	3.956
85	0.477	0.648	0.719	0.707	0.463	4.128	4.856	3.511	4.546	4.729
90	0.975	0.388	0.670	0.357	0.381	5.700	2.958	4.783	2.496	5.606
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	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324	2074.324
5	2036.771	2010.199	2012.198	1948.860	1913.885	1921.035	1903.766
10	1813.378	1762.365	1761.586	1670.338	1613.081	1616.730	1591.320
15	1466.418	1400.709	1403.066	1324.631	1264.329	1249.271	1230.432
20	1112.800	1050.222	1053.703	1040.189	991.229	937.188	932.943
25	810.900	773.653	800.666	807.912	764.008	716.008	720.114
30	456.836	543.012	614.703	511.407	457.505	519.049	498.659
35	100.579	230.988	370.611	152.735	154.930	271.707	250.352
40	32.978	52.844	125.897	39.302	35.826	75.906	76.455
45	15.008	16.082	21.711	19.636	17.350	19.153	18.566
50	5.283	6.704	10.034	7.525	6.673	8.512	7.933
55	1.340	2.522	3.361	2.233	2.213	2.559	3.024
60	1.231	1.765	1.580	1.279	1.369	1.354	1.271

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65	1.488	1.334	1.635	0.811	0.930	1.108	0.893
70	1.761	1.903	1.727	0.623	0.874	0.965	0.864
75	2.613	2.638	2.287	0.643	0.886	0.699	0.833
80	3.067	3.352	3.212	0.875	0.717	0.922	0.941
85	4.775	5.158	5.019	0.526	0.784	0.594	0.477
90	2.888	5.445	2.965	0.296	0.904	0.514	0.975
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	563.66	N.A.	50.90
0-30	921.65	N.A.	83.20
0-40	1077.9	N.A.	97.30
0-60	1101.31	N.A.	99.40
0-80	1104.37	N.A.	99.70
0-90	1107.00	N.A.	99.90
10-90	926.01	N.A.	83.60
20-40	514.24	N.A.	46.40
20-50	534.54	N.A.	48.30
40-70	24.70	N.A.	2.20
60-80	3.06	N.A.	0.30
70-80	1.77	N.A.	0.20
80-90	2.63	N.A.	0.20
90-110	0.64	N.A.	0.10
90-120	0.64	N.A.	0.10
90-130	0.64	N.A.	0.10
90-150	0.64	N.A.	0.10
90-180	0.64	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1107.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.99
10-20	382.67
20-30	358.00
30-40	156.25
40-50	20.30
50-60	3.11
60-70	1.29
70-80	1.77
80-90	2.63
90-100	0.64
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

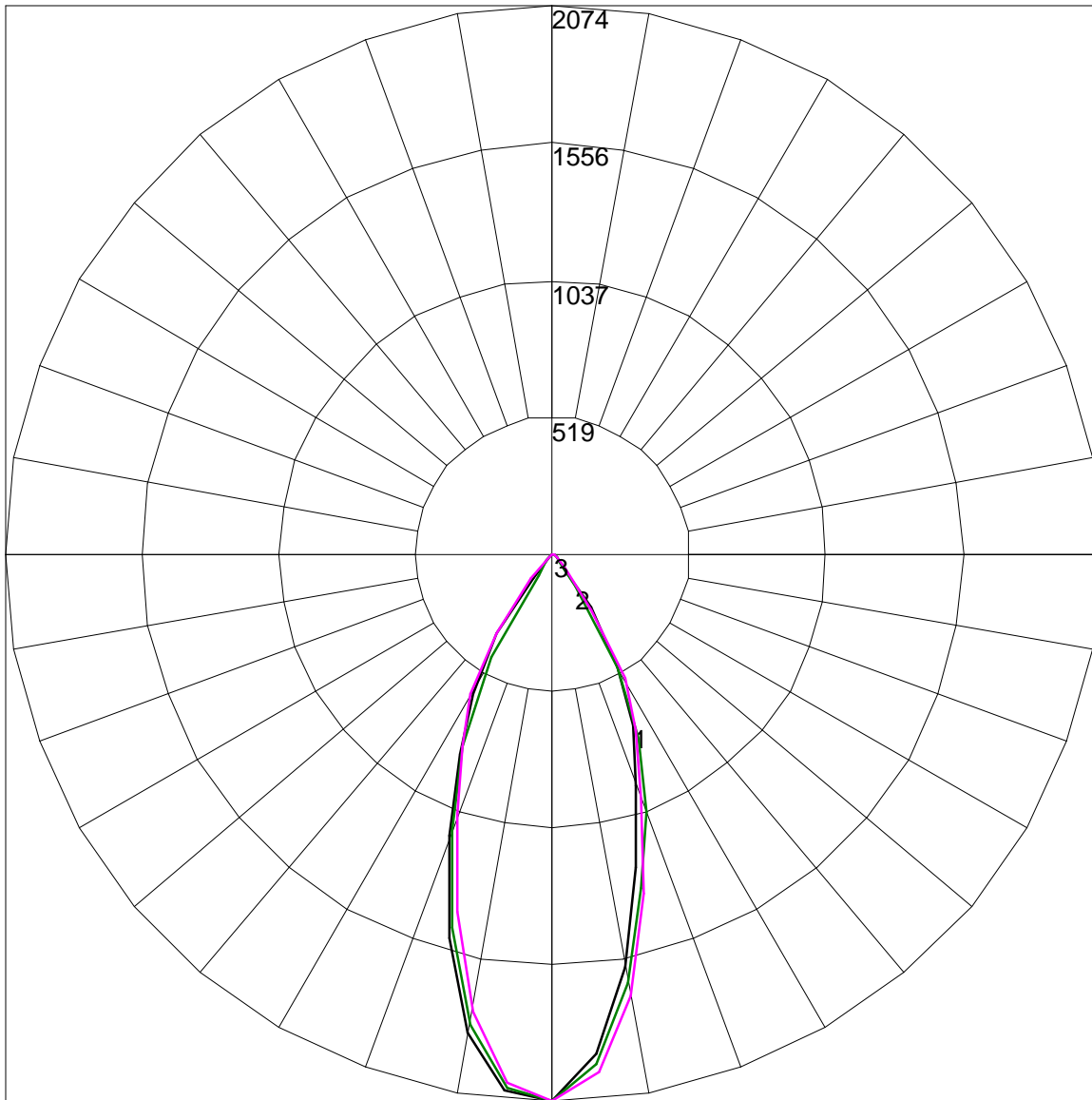
Effective Floor Cavity Reflectance 0.20

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	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58

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POLAR GRAPH



Maximum Candela = 2074.324 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)