

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_13 ~ C08XXSQXT-13LXXK-XWEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_13_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-13L-xxK-XW-EX-TSG-GL
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders
[OTHER] Upper, Internal Reflector, Xtra Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Clear Glass Lens, Regressed in Lower Trim
[OTHER] 62.4 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	1004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.88
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	3721	3564	3724
55	650	301	654
65	116	109	133
75	140	108	124
85	261	441	387

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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	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893
5	1130.598	1135.536	1133.863	1133.733	1128.893	1129.631	1129.523	1119.294	1117.344	1108.657
10	1089.144	1102.616	1101.117	1101.300	1089.364	1084.163	1083.185	1065.671	1062.336	1052.172
15	1014.450	1045.152	1048.524	1038.418	1015.082	1007.596	1007.796	976.101	971.089	975.067
20	904.992	976.711	970.159	940.608	904.242	909.512	907.096	861.775	867.599	900.548
25	797.173	846.906	836.596	833.740	793.100	804.272	811.075	750.759	790.181	784.316
30	649.301	647.673	602.255	682.856	654.478	566.059	572.103	591.002	630.735	516.374
35	405.814	255.361	294.927	467.580	391.230	222.557	196.654	325.564	355.617	188.613
40	155.111	115.500	114.663	163.787	128.736	103.371	101.559	109.399	115.489	88.918
45	61.164	60.318	58.593	65.319	61.219	52.964	51.525	52.622	55.726	45.343
50	29.369	19.229	19.792	31.208	29.026	18.695	17.458	24.538	27.600	15.341
55	8.661	2.636	4.008	8.406	8.718	5.299	4.355	7.657	8.400	3.995
60	1.745	1.532	1.501	1.714	2.124	2.835	2.557	2.859	2.254	2.341
65	1.136	1.280	1.066	1.376	1.302	2.351	1.993	2.452	2.453	2.264
70	0.875	0.886	1.065	0.822	1.049	2.426	2.373	2.621	2.668	2.528
75	0.843	0.691	0.651	0.744	0.747	2.962	2.681	2.293	2.365	2.992
80	0.705	0.701	0.757	0.695	0.678	2.758	3.103	3.570	2.890	3.514
85	0.529	0.870	0.894	0.678	0.785	4.156	3.877	4.105	4.525	4.277
90	0.676	0.305	0.508	0.296	0.776	4.151	2.088	3.972	2.290	4.171
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	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893	1138.893
5	1108.019	1108.409	1114.796	1118.044	1120.670	1127.087	1130.598
10	1053.395	1051.424	1065.975	1072.611	1072.580	1082.447	1089.144
15	974.719	962.008	978.787	990.569	995.216	1005.024	1014.450
20	898.970	857.050	854.046	904.496	908.907	893.157	904.992
25	789.615	747.330	743.151	829.776	816.133	805.272	797.173
30	495.272	558.650	607.477	608.215	593.162	672.807	649.301
35	163.715	287.708	347.316	199.993	227.924	416.869	405.814
40	86.257	95.610	120.456	91.808	95.741	129.260	155.111
45	43.438	48.445	51.803	49.230	50.904	60.646	61.164
50	12.744	22.838	27.435	18.798	19.431	30.418	29.369
55	3.407	7.344	9.577	4.805	4.937	9.407	8.661
60	2.103	2.731	2.777	2.013	1.899	2.492	1.745

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65	2.089	2.443	2.240	1.312	1.286	1.271	1.136
70	2.379	2.785	2.345	1.230	1.144	0.868	0.875
75	2.453	3.121	2.957	0.859	1.117	0.813	0.843
80	3.313	3.533	3.208	0.552	0.671	0.642	0.705
85	4.648	4.339	3.981	0.653	0.555	0.921	0.529
90	2.400	4.210	4.944	0.367	0.533	0.493	0.676
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	385.87	N.A.	38.40
0-30	741.81	N.A.	73.90
0-40	942.74	N.A.	93.90
0-60	997.70	N.A.	99.30
0-80	1001.47	N.A.	99.70
0-90	1003.91	N.A.	99.90
10-90	898.19	N.A.	89.40
20-40	556.88	N.A.	55.40
20-50	603.52	N.A.	60.10
40-70	56.81	N.A.	5.70
60-80	3.78	N.A.	0.40
70-80	1.92	N.A.	0.20
80-90	2.44	N.A.	0.20
90-110	0.55	N.A.	0.10
90-120	0.55	N.A.	0.10
90-130	0.55	N.A.	0.10
90-150	0.55	N.A.	0.10
90-180	0.55	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1004.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.72
10-20	280.14
20-30	355.95
30-40	200.93
40-50	46.64
50-60	8.31
60-70	1.86
70-80	1.92
80-90	2.44
90-100	0.55
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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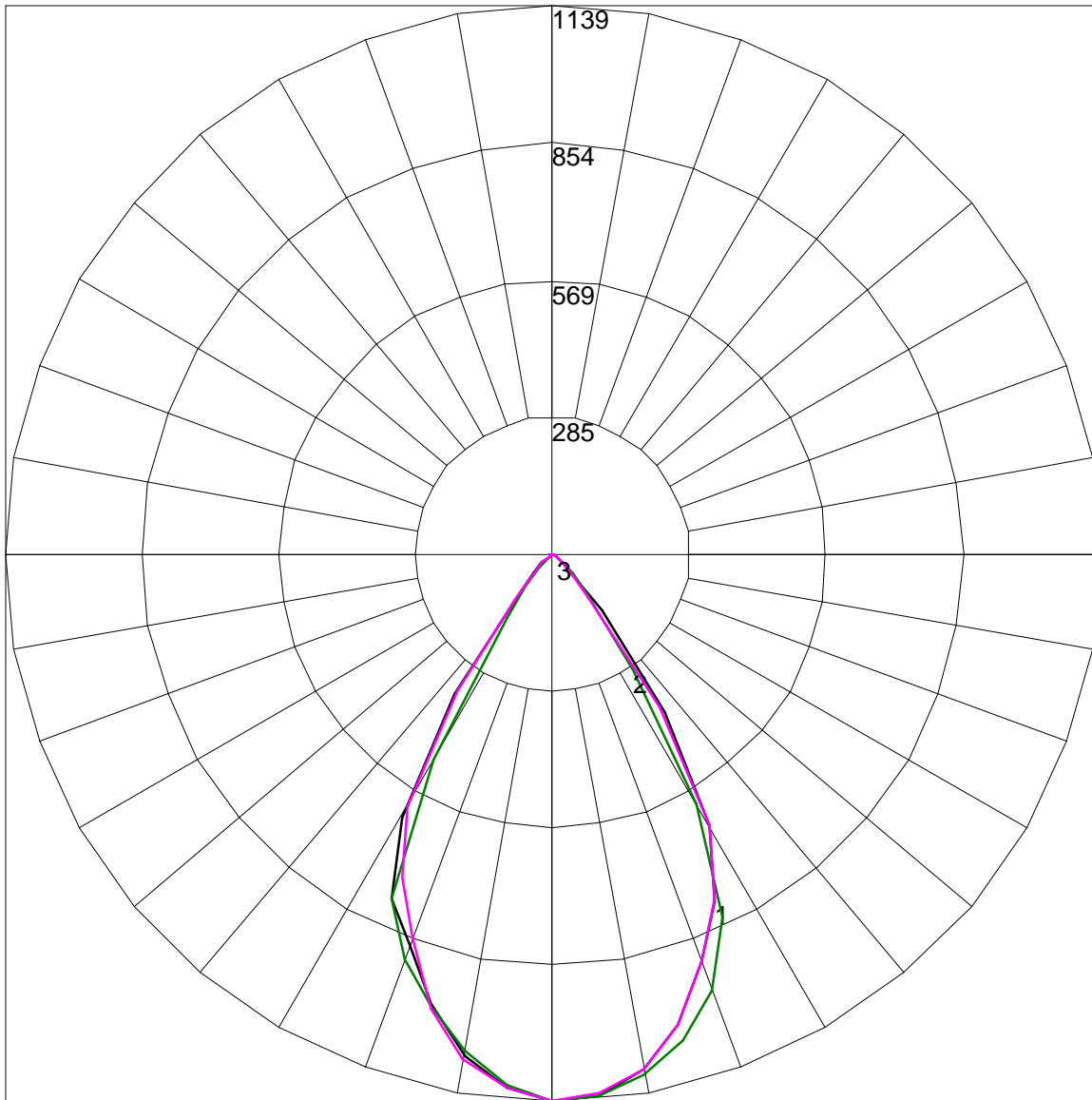
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	65	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

POLAR GRAPH



Maximum Candela = 1138.893 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)