

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_9 ~ C08XXSQXT-13LXXK-WDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_9_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 12/2/2018
[LUMCAT] C08xxSQXT-13L-xxK-WD-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, Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Clear Glass Lens, Regressed in Lower Trim
[OTHER] 47.4 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	989
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.78
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	2093	1337	1799
55	349	136	264
65	87	110	123
75	177	125	104
85	289	271	365

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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	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414
5	1478.469	1493.215	1491.529	1485.743	1470.128	1492.132	1486.120	1489.066	1461.748	1454.067
10	1358.323	1386.434	1385.268	1376.523	1341.872	1375.196	1369.044	1369.402	1326.974	1308.246
15	1154.736	1199.769	1200.277	1179.482	1130.649	1176.930	1165.837	1161.677	1113.802	1099.406
20	911.239	974.054	977.132	938.670	883.827	941.418	939.059	912.080	881.516	916.313
25	709.005	747.115	735.003	723.804	695.732	742.813	748.582	712.167	719.801	749.961
30	545.396	467.318	420.197	527.919	529.447	500.237	469.431	549.079	560.921	518.453
35	329.919	168.609	139.351	272.309	266.278	163.875	118.161	290.106	329.487	167.311
40	116.785	55.265	51.583	73.369	77.126	60.371	59.853	66.905	124.515	53.547
45	34.408	26.411	21.978	28.962	29.565	29.853	29.157	34.979	40.638	27.882
50	15.092	8.794	6.178	11.454	12.073	11.509	10.261	16.613	17.542	9.527
55	4.652	2.254	1.810	2.949	3.525	4.115	3.511	5.504	6.416	3.297
60	1.471	1.326	1.036	1.191	1.328	2.612	2.576	2.777	2.501	1.972
65	0.855	1.058	1.077	0.990	1.209	2.228	2.037	2.393	2.270	2.115
70	0.954	0.851	0.587	0.820	0.837	2.536	2.595	2.288	2.064	2.348
75	1.067	0.919	0.751	0.562	0.625	2.837	2.819	2.773	2.122	2.565
80	0.708	0.787	0.664	0.743	0.689	2.798	2.885	2.527	3.209	3.153
85	0.586	0.549	0.549	0.826	0.739	3.927	3.865	3.690	3.845	4.121
90	0.000	0.000	0.000	0.000	0.000	4.684	5.458	4.644	5.229	5.369
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	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414	1514.414
5	1450.402	1454.344	1465.319	1463.495	1463.205	1466.684	1478.469
10	1305.688	1311.813	1336.965	1322.669	1324.735	1329.488	1358.323
15	1106.907	1098.061	1132.841	1107.989	1120.825	1115.147	1154.736
20	916.770	884.862	895.933	889.243	916.066	887.604	911.239
25	741.990	732.108	700.639	745.651	749.776	721.595	709.005
30	486.382	548.568	558.163	549.281	512.845	557.794	545.396
35	192.340	294.173	372.347	188.159	192.210	302.795	329.919
40	56.232	76.255	164.059	62.808	65.606	74.778	116.785
45	27.759	33.341	52.655	32.223	32.216	34.441	34.408
50	10.431	16.264	21.739	13.134	12.074	16.019	15.092
55	3.501	5.622	10.097	4.346	3.873	5.115	4.652
60	2.271	2.254	3.952	1.981	1.775	1.427	1.471

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65	2.022	1.726	2.066	1.315	1.225	0.986	0.855
70	2.214	2.208	2.316	1.064	1.143	1.095	0.954
75	2.255	2.751	2.079	0.733	0.822	0.971	1.067
80	3.055	2.866	3.282	0.750	0.578	0.700	0.708
85	4.144	4.260	3.770	0.615	0.737	0.591	0.586
90	5.459	5.251	5.024	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	453.68	N.A.	45.90
0-30	784.36	N.A.	79.30
0-40	948.04	N.A.	95.80
0-60	982.80	N.A.	99.30
0-80	986.29	N.A.	99.70
0-90	988.75	N.A.	99.90
10-90	852.21	N.A.	86.10
20-40	494.35	N.A.	50.00
20-50	523.83	N.A.	52.90
40-70	36.45	N.A.	3.70
60-80	3.49	N.A.	0.40
70-80	1.80	N.A.	0.20
80-90	2.46	N.A.	0.20
90-110	0.70	N.A.	0.10
90-120	0.70	N.A.	0.10
90-130	0.70	N.A.	0.10
90-150	0.70	N.A.	0.10
90-180	0.70	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	989.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.53
10-20	317.15
20-30	330.68
30-40	163.68
40-50	29.47
50-60	5.28
60-70	1.70
70-80	1.80
80-90	2.46
90-100	0.70
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

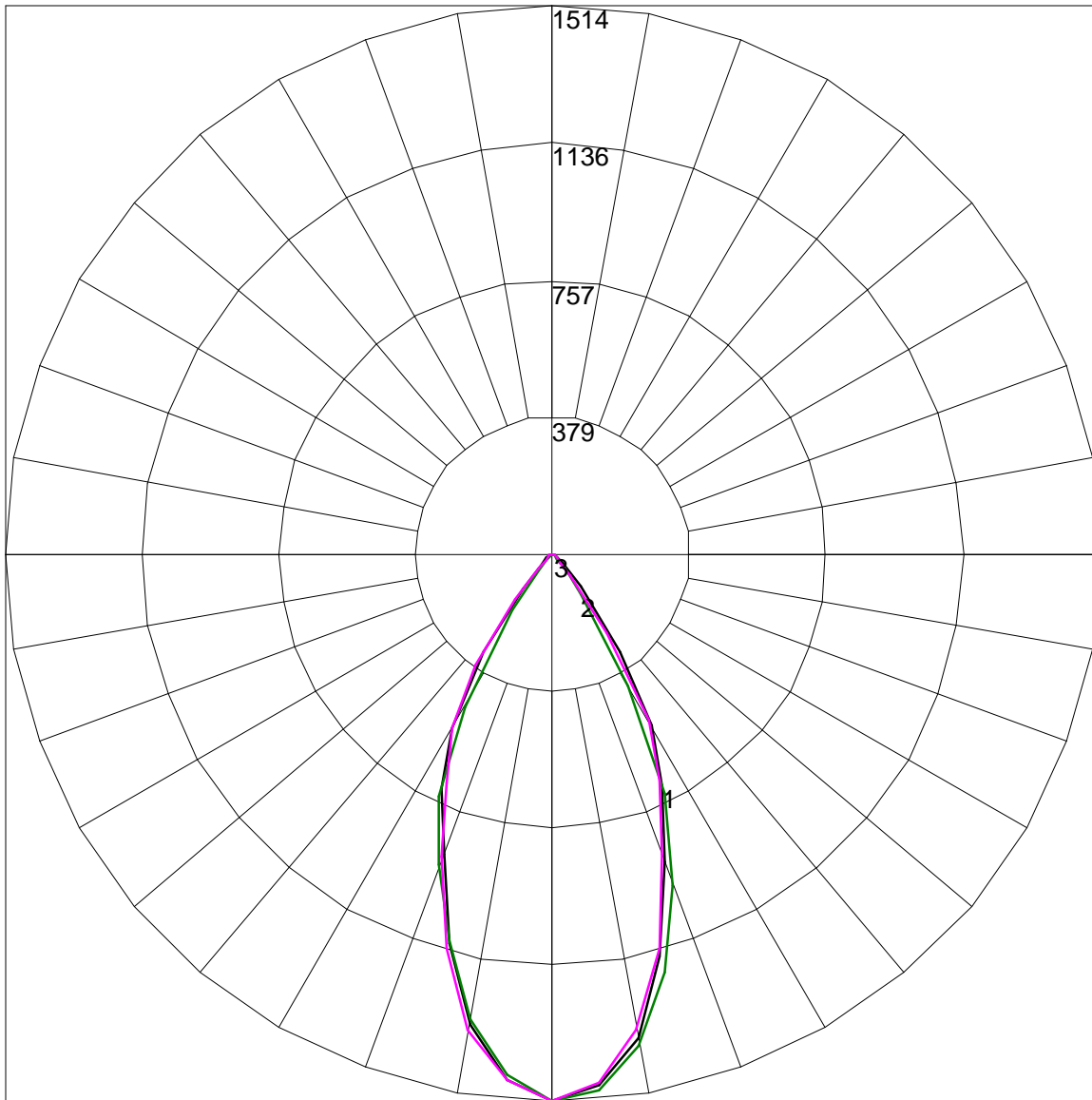
Effective Floor Cavity Reflectance 0.20

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	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	76	71	67	74	70	67	73	70	67	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	60	68	64	60	67	63	60	67	63	60	59
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 1514.414 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)