

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_13 ~ C08XXSQXT-30LXXK-XWEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_13
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2318
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	32.6
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	8587	8226	8595
55	1499	694	1509
65	267	250	306
75	323	250	287
85	603	1018	894

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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	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416
5	2609.272	2620.670	2616.809	2616.509	2605.338	2607.041	2606.792	2583.186	2578.684	2558.637
10	2513.602	2544.695	2541.235	2541.658	2514.111	2502.106	2499.849	2459.431	2451.734	2428.275
15	2341.218	2412.074	2419.856	2396.534	2342.677	2325.401	2325.861	2252.715	2241.148	2250.328
20	2088.603	2254.121	2239.001	2170.800	2086.874	2099.035	2093.459	1988.864	2002.305	2078.348
25	1839.771	1954.550	1930.755	1924.163	1830.372	1856.155	1871.855	1732.655	1823.635	1810.100
30	1498.502	1494.746	1389.927	1575.942	1510.450	1306.390	1320.339	1363.956	1455.654	1191.723
35	936.567	589.340	680.652	1079.113	902.909	513.633	453.853	751.360	820.718	435.294
40	357.976	266.558	264.627	377.998	297.105	238.566	234.384	252.478	266.534	205.211
45	141.158	139.205	135.225	150.747	141.285	122.234	118.913	121.444	128.609	104.645
50	67.780	44.377	45.678	72.024	66.988	43.146	40.290	56.631	63.698	35.405
55	19.988	6.084	9.249	19.399	20.120	12.230	10.051	17.671	19.387	9.221
60	4.027	3.536	3.463	3.955	4.902	6.543	5.901	6.598	5.201	5.403
65	2.621	2.954	2.460	3.175	3.006	5.425	4.599	5.660	5.662	5.225
70	2.020	2.045	2.458	1.898	2.421	5.599	5.476	6.050	6.158	5.835
75	1.945	1.595	1.503	1.716	1.725	6.836	6.188	5.292	5.457	6.904
80	1.627	1.617	1.748	1.605	1.565	6.365	7.162	8.238	6.669	8.109
85	1.222	2.009	2.063	1.564	1.811	9.592	8.948	9.474	10.442	9.870
90	1.561	0.704	1.173	0.683	1.792	9.580	4.819	9.168	5.285	9.627
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	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416	2628.416
5	2557.163	2558.063	2572.803	2580.300	2586.361	2601.170	2609.272
10	2431.099	2426.550	2460.131	2475.446	2475.374	2498.146	2513.602
15	2249.525	2220.190	2258.913	2286.105	2296.830	2319.465	2341.218
20	2074.706	1977.960	1971.026	2087.458	2097.640	2061.290	2088.603
25	1822.328	1724.740	1715.095	1915.016	1883.528	1858.463	1839.771
30	1143.024	1289.292	1401.978	1403.682	1368.940	1552.752	1498.502
35	377.834	663.993	801.560	461.558	526.018	962.079	936.567
40	199.069	220.656	277.996	211.882	220.958	298.315	357.976
45	100.250	111.804	119.554	113.616	117.480	139.962	141.158
50	29.412	52.708	63.316	43.384	44.845	70.201	67.780
55	7.864	16.950	22.102	11.090	11.395	21.709	19.988
60	4.854	6.302	6.409	4.646	4.383	5.752	4.027

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65	4.822	5.638	5.169	3.028	2.968	2.934	2.621
70	5.491	6.428	5.411	2.839	2.640	2.004	2.020
75	5.662	7.203	6.824	1.982	2.578	1.876	1.945
80	7.647	8.154	7.404	1.275	1.548	1.482	1.627
85	10.727	10.015	9.188	1.507	1.281	2.125	1.222
90	5.539	9.717	11.410	0.846	1.230	1.137	1.561
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	890.53	N.A.	38.40
0-30	1712.01	N.A.	73.90
0-40	2175.73	N.A.	93.90
0-60	2302.55	N.A.	99.30
0-80	2311.27	N.A.	99.70
0-90	2316.9	N.A.	99.90
10-90	2072.9	N.A.	89.40
20-40	1285.2	N.A.	55.40
20-50	1392.85	N.A.	60.10
40-70	131.12	N.A.	5.70
60-80	8.72	N.A.	0.40
70-80	4.42	N.A.	0.20
80-90	5.63	N.A.	0.20
90-110	1.27	N.A.	0.10
90-120	1.27	N.A.	0.10
90-130	1.27	N.A.	0.10
90-150	1.27	N.A.	0.10
90-180	1.27	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2318.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.00
10-20	646.53
20-30	821.48
30-40	463.72
40-50	107.65
50-60	19.17
60-70	4.30
70-80	4.42
80-90	5.63
90-100	1.27
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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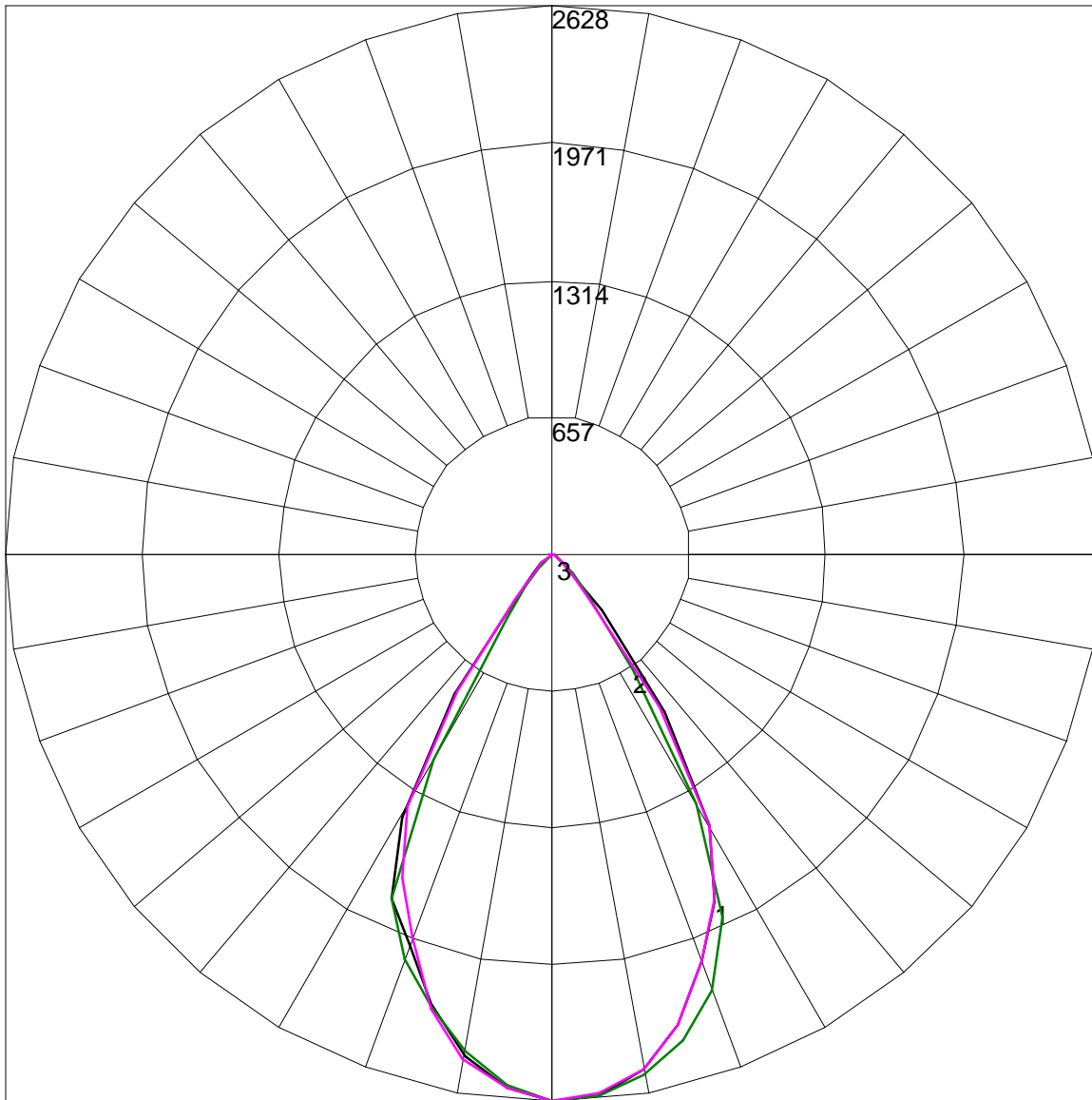
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	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	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	90	85	80	96	89	84	80	87	82	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	68	76	71	68	74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	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 = 2628.416 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)