

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_13 ~ C08XXSQXT-20LXXK-XWEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_13_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-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	1546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	21.7
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	5725	5484	5730
55	999	462	1006
65	178	167	204
75	216	167	191
85	402	679	596

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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	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365
5	1739.602	1747.201	1744.627	1744.427	1736.979	1738.114	1737.948	1722.210	1719.209	1705.843
10	1675.818	1696.548	1694.241	1694.523	1676.158	1668.154	1666.649	1639.703	1634.571	1618.931
15	1560.890	1608.130	1613.318	1597.769	1561.863	1550.345	1550.652	1501.885	1494.173	1500.294
20	1392.472	1502.822	1492.742	1447.272	1391.319	1399.427	1395.709	1325.976	1334.937	1385.635
25	1226.575	1303.098	1287.234	1282.839	1220.309	1237.499	1247.966	1155.161	1215.817	1206.794
30	999.051	996.547	926.664	1050.681	1007.017	870.970	880.270	909.349	970.485	794.522
35	624.409	392.913	453.791	719.445	601.969	342.439	302.584	500.932	547.173	290.211
40	238.663	177.714	176.427	252.011	198.080	159.052	156.264	168.327	177.698	136.814
45	94.110	92.808	90.155	100.503	94.195	81.493	79.279	80.967	85.744	69.767
50	45.189	29.586	30.454	48.018	44.661	28.765	26.861	37.756	42.467	23.605
55	13.326	4.056	6.166	12.933	13.414	8.154	6.701	11.781	12.925	6.148
60	2.685	2.357	2.309	2.637	3.268	4.362	3.934	4.399	3.468	3.602
65	1.747	1.969	1.640	2.117	2.004	3.617	3.066	3.774	3.775	3.484
70	1.347	1.363	1.639	1.265	1.614	3.733	3.651	4.034	4.106	3.890
75	1.297	1.063	1.002	1.144	1.150	4.558	4.126	3.528	3.638	4.603
80	1.085	1.078	1.165	1.070	1.043	4.244	4.775	5.492	4.446	5.406
85	0.815	1.339	1.375	1.043	1.207	6.395	5.966	6.316	6.962	6.580
90	1.041	0.469	0.782	0.455	1.195	6.387	3.213	6.112	3.524	6.418
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	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365	1752.365
5	1704.861	1705.461	1715.288	1720.286	1724.327	1734.200	1739.602
10	1620.814	1617.781	1640.169	1650.380	1650.332	1665.514	1675.818
15	1499.758	1480.201	1506.017	1524.146	1531.297	1546.387	1560.890
20	1383.207	1318.706	1314.083	1391.708	1398.497	1374.262	1392.472
25	1214.946	1149.884	1143.454	1276.741	1255.748	1239.037	1226.575
30	762.054	859.571	934.699	935.835	912.672	1035.220	999.051
35	251.902	442.684	534.400	307.721	350.696	641.418	624.409
40	132.719	147.111	185.340	141.262	147.313	198.887	238.663
45	66.837	74.540	79.707	75.748	78.324	93.313	94.110
50	19.609	35.140	42.213	28.924	29.898	46.803	45.189
55	5.243	11.301	14.735	7.394	7.597	14.473	13.326
60	3.236	4.202	4.273	3.097	2.922	3.835	2.685

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65	3.215	3.759	3.446	2.019	1.979	1.956	1.747
70	3.661	4.286	3.608	1.893	1.760	1.336	1.347
75	3.775	4.802	4.550	1.321	1.719	1.251	1.297
80	5.098	5.436	4.936	0.850	1.032	0.988	1.085
85	7.152	6.677	6.126	1.005	0.854	1.417	0.815
90	3.693	6.478	7.607	0.564	0.820	0.758	1.041
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	593.71	N.A.	38.40
0-30	1141.4	N.A.	73.90
0-40	1450.56	N.A.	93.90
0-60	1535.11	N.A.	99.30
0-80	1540.92	N.A.	99.70
0-90	1544.68	N.A.	99.90
10-90	1382.01	N.A.	89.40
20-40	856.84	N.A.	55.40
20-50	928.61	N.A.	60.10
40-70	87.42	N.A.	5.70
60-80	5.81	N.A.	0.40
70-80	2.95	N.A.	0.20
80-90	3.75	N.A.	0.20
90-110	0.85	N.A.	0.10
90-120	0.85	N.A.	0.10
90-130	0.85	N.A.	0.10
90-150	0.85	N.A.	0.10
90-180	0.85	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1545.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.67
10-20	431.04
20-30	547.68
30-40	309.16
40-50	71.77
50-60	12.78
60-70	2.86
70-80	2.95
80-90	3.75
90-100	0.85
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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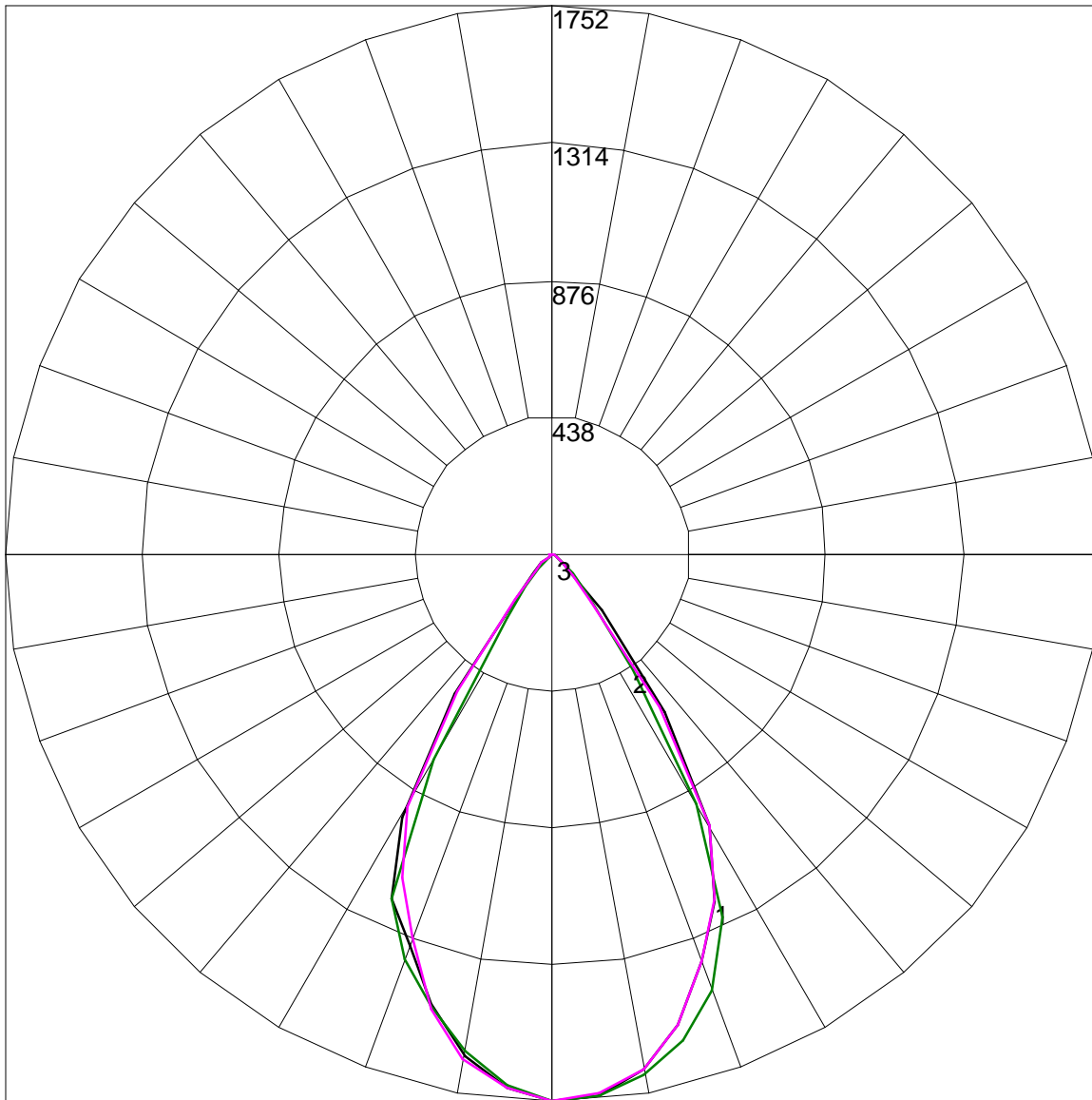
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	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	83	78	74	82	77	73	80	76	73	78	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	71	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	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52

POLAR GRAPH



Maximum Candela = 1752.365 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)