

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_15_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-SO
[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] Solite Lens, Regressed in Lower Trim
[OTHER] 58.9 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	1472
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7794	5689	5648
55	1954	1179	965
65	506	309	175
75	239	195	167
85	378	499	597

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES

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	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170
5	1656.175	1646.746	1650.489	1658.724	1678.255	1688.669	1686.304	1670.508	1653.352	1649.274
10	1577.712	1565.309	1574.742	1578.776	1615.207	1641.183	1638.927	1605.982	1579.725	1572.355
15	1445.201	1443.012	1465.868	1460.040	1501.408	1544.968	1534.301	1488.250	1454.793	1455.688
20	1280.105	1296.201	1332.689	1313.286	1344.667	1397.305	1379.466	1322.221	1300.158	1318.776
25	1083.810	1089.548	1117.704	1118.787	1128.439	1130.721	1124.535	1110.338	1108.667	1109.916
30	827.569	764.038	764.492	824.369	794.394	702.261	718.717	813.285	822.122	760.786
35	526.620	412.350	404.328	479.688	441.404	348.297	363.204	470.094	473.456	407.596
40	272.126	189.490	192.962	224.170	206.183	170.005	174.969	220.030	225.943	197.605
45	128.120	88.138	93.523	104.376	92.844	80.799	84.682	96.438	107.571	98.232
50	57.239	39.403	42.715	44.709	37.842	28.584	30.040	42.528	50.188	46.221
55	26.049	15.627	15.715	16.959	12.873	5.819	7.572	15.383	21.410	19.302
60	11.671	6.561	5.160	4.896	3.797	3.100	3.574	6.448	8.876	8.372
65	4.972	3.472	3.033	1.915	1.715	2.695	3.811	3.446	4.445	5.299
70	2.181	2.745	2.164	1.439	1.271	3.321	4.059	3.615	3.501	4.567
75	1.438	1.769	1.176	1.044	1.005	3.201	3.841	4.103	3.826	5.246
80	0.937	0.779	0.839	0.779	1.037	3.986	4.341	4.799	4.512	4.176
85	0.765	1.011	1.011	1.041	1.210	5.248	4.899	4.940	5.865	5.155
90	0.811	0.807	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170	1683.170
5	1646.551	1661.888	1647.631	1635.875	1639.291	1654.027	1656.175
10	1565.350	1583.539	1553.162	1533.327	1539.740	1566.804	1577.712
15	1437.103	1451.603	1419.277	1407.140	1416.033	1432.792	1445.201
20	1281.321	1283.836	1265.261	1269.318	1277.185	1281.343	1280.105
25	1082.565	1085.049	1072.576	1049.001	1054.050	1091.163	1083.810
30	776.211	829.281	801.491	742.094	743.472	819.900	827.569
35	430.030	535.434	507.529	428.158	434.776	521.270	526.620
40	201.404	289.949	281.109	198.669	209.438	286.074	272.126
45	95.153	143.134	143.827	89.791	93.561	148.834	128.120
50	45.501	68.765	70.026	46.666	47.876	72.473	57.239
55	19.694	33.464	34.812	21.489	21.742	33.232	26.049
60	9.041	17.154	17.350	9.585	8.276	15.421	11.671

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES****CANDELA TABULATION - (Cont.)**

65	6.222	8.483	10.006	4.405	4.841	5.915	4.972
70	5.738	6.828	5.502	2.670	2.358	3.199	2.181
75	4.507	5.098	4.781	1.349	1.478	1.509	1.438
80	4.659	5.078	5.179	1.111	1.130	1.035	0.937
85	4.882	5.496	5.607	0.912	0.970	1.084	0.765
90	7.793	7.040	6.892	0.957	1.011	0.751	0.811
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	564.34	N.A.	38.30
0-30	1054.48	N.A.	71.60
0-40	1347.52	N.A.	91.50
0-60	1460.59	N.A.	99.20
0-80	1469.04	N.A.	99.80
0-90	1471.94	N.A.	100.00
10-90	1316.15	N.A.	89.40
20-40	783.18	N.A.	53.20
20-50	874.75	N.A.	59.40
40-70	118.37	N.A.	8.00
60-80	8.45	N.A.	0.60
70-80	3.14	N.A.	0.20
80-90	2.91	N.A.	0.20
90-110	0.45	N.A.	0.00
90-120	0.45	N.A.	0.00
90-130	0.45	N.A.	0.00
90-150	0.45	N.A.	0.00
90-180	0.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1472.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.79
10-20	408.55
20-30	490.14
30-40	293.04
40-50	91.58
50-60	21.49
60-70	5.31
70-80	3.14
80-90	2.91
90-100	0.45
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

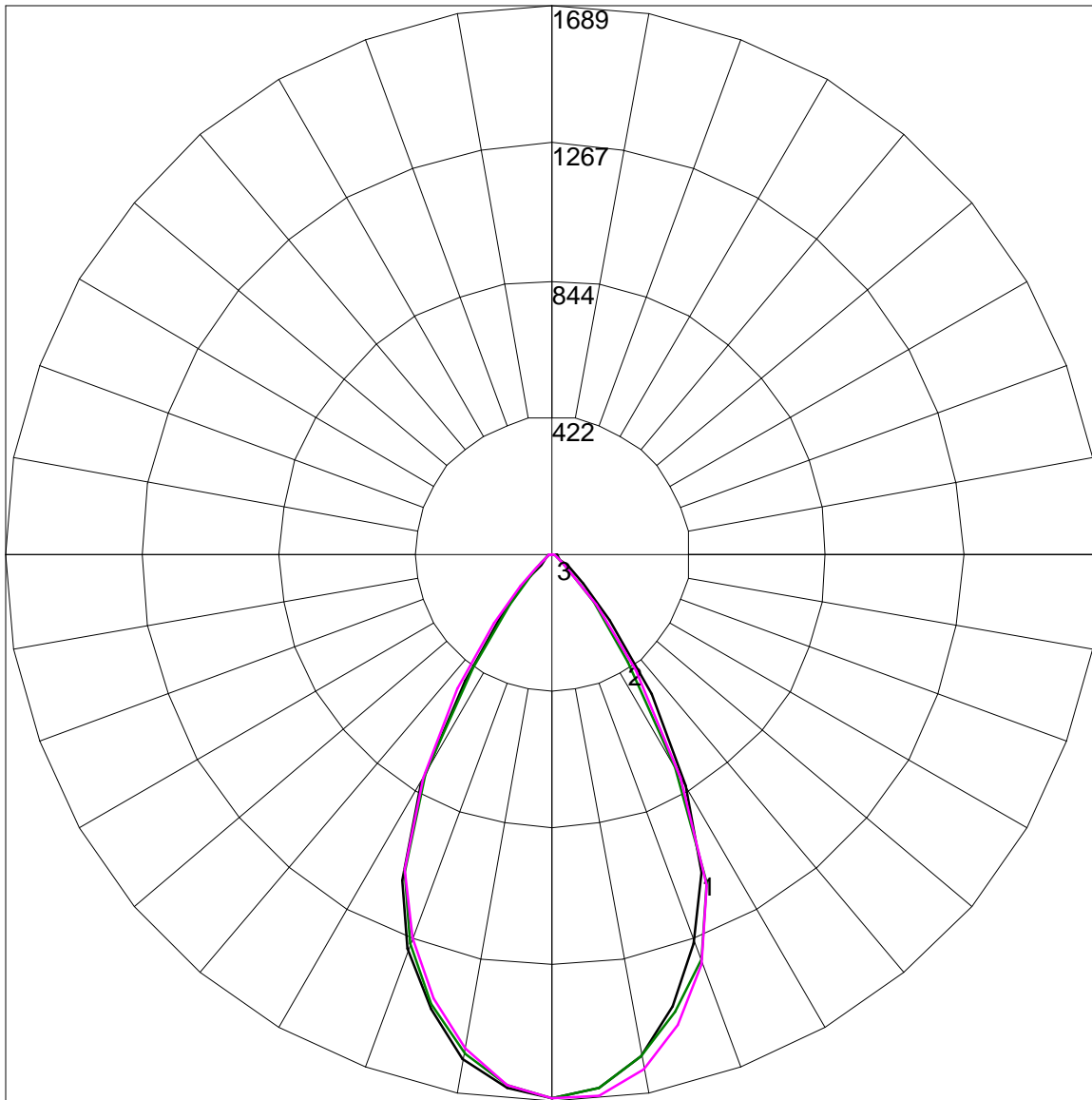
Effective Floor Cavity Reflectance 0.20

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	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	83	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00611_15 ~ C08XXSQXT-20LXXK-XWEX-TSG-SO.IES

POLAR GRAPH



Maximum Candela = 1688.669 Located At Horizontal Angle = 112.5, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)