

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_10 ~ C08XXSQXT-20LXXK-WDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_10_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-WD-EX-TSG-NL
[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] No Lens
[OTHER] 47.5 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	1685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
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	3506	2681	3377
55	706	339	551
65	187	199	142
75	174	159	215
85	615	691	566

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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	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397
5	2516.274	2514.846	2509.868	2514.378	2541.739	2538.176	2546.580	2549.795	2557.179	2576.134
10	2277.459	2268.663	2262.186	2267.729	2315.352	2330.999	2337.480	2330.751	2356.259	2385.222
15	1912.599	1921.279	1912.852	1906.736	1954.392	1985.217	2000.405	1965.583	2011.081	2042.970
20	1526.465	1584.533	1598.727	1538.208	1542.023	1599.495	1618.872	1542.948	1587.994	1644.786
25	1236.422	1272.400	1257.688	1245.558	1217.684	1281.403	1276.973	1213.545	1223.321	1271.976
30	933.780	865.280	859.263	930.792	951.714	844.566	823.706	945.811	930.438	722.793
35	544.953	344.232	322.461	535.154	526.869	333.697	253.718	360.908	526.734	238.525
40	202.423	92.244	98.048	198.861	170.671	100.870	104.356	102.416	145.983	81.762
45	57.640	46.754	44.070	50.476	55.512	49.406	49.046	47.756	45.045	35.919
50	27.317	18.328	15.844	24.009	25.799	18.267	17.418	19.616	18.482	10.641
55	9.416	5.204	4.515	7.762	7.342	6.004	5.146	4.876	4.446	2.965
60	2.689	2.157	2.513	2.647	2.035	3.506	3.414	2.151	2.194	2.424
65	1.837	1.514	1.953	1.675	1.396	2.518	3.476	3.321	1.985	1.857
70	1.423	1.245	1.303	1.262	0.975	3.522	3.898	3.408	2.917	3.299
75	1.046	1.417	0.955	1.507	1.296	4.817	3.833	4.231	5.144	3.729
80	0.922	0.867	1.587	0.862	1.191	4.650	5.123	6.086	5.636	4.651
85	1.247	1.035	1.400	1.171	1.146	6.733	6.616	6.299	6.932	8.148
90	1.390	1.096	0.977	0.269	0.960	8.763	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. 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	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397	2612.397
5	2581.214	2570.699	2547.277	2503.684	2509.779	2544.011	2516.274
10	2392.514	2375.808	2324.820	2264.093	2268.761	2318.167	2277.459
15	2062.247	2025.137	1963.926	1922.320	1905.983	1947.767	1912.599
20	1653.921	1598.643	1552.398	1585.955	1576.277	1525.724	1526.465
25	1245.195	1231.800	1240.493	1277.723	1280.811	1221.150	1236.422
30	739.169	903.313	975.333	814.331	861.308	978.726	933.780
35	188.557	417.154	565.568	269.820	321.840	583.337	544.953
40	79.872	114.846	189.885	90.891	98.106	175.015	202.423
45	34.504	44.524	48.937	44.776	47.081	54.569	57.640
50	9.681	19.636	21.304	15.400	17.990	28.475	27.317
55	2.945	6.204	7.036	4.019	5.494	7.476	9.416
60	2.218	2.814	2.669	1.855	1.565	2.199	2.689

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65	2.492	2.521	2.017	1.355	1.251	1.632	1.837
70	3.049	3.183	3.041	1.399	1.035	1.317	1.423
75	3.982	3.798	4.294	1.725	1.652	1.416	1.046
80	5.154	4.060	5.792	0.922	1.168	1.051	0.922
85	6.112	7.629	6.523	1.479	1.386	1.194	1.247
90	0.000	8.674	0.000	0.000	1.335	0.991	1.390
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	781.47	N.A.	46.40
0-30	1347.73	N.A.	80.00
0-40	1623.00	N.A.	96.30
0-60	1676.16	N.A.	99.50
0-80	1681.26	N.A.	99.80
0-90	1684.74	N.A.	100.00
10-90	1449.44	N.A.	86.00
20-40	841.53	N.A.	49.90
20-50	887.40	N.A.	52.70
40-70	55.35	N.A.	3.30
60-80	5.09	N.A.	0.30
70-80	2.91	N.A.	0.20
80-90	3.48	N.A.	0.20
90-110	0.42	N.A.	0.00
90-120	0.42	N.A.	0.00
90-130	0.42	N.A.	0.00
90-150	0.42	N.A.	0.00
90-180	0.42	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1685.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.30
10-20	546.17
20-30	566.27
30-40	275.26
40-50	45.87
50-60	7.30
60-70	2.18
70-80	2.91
80-90	3.48
90-100	0.42
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

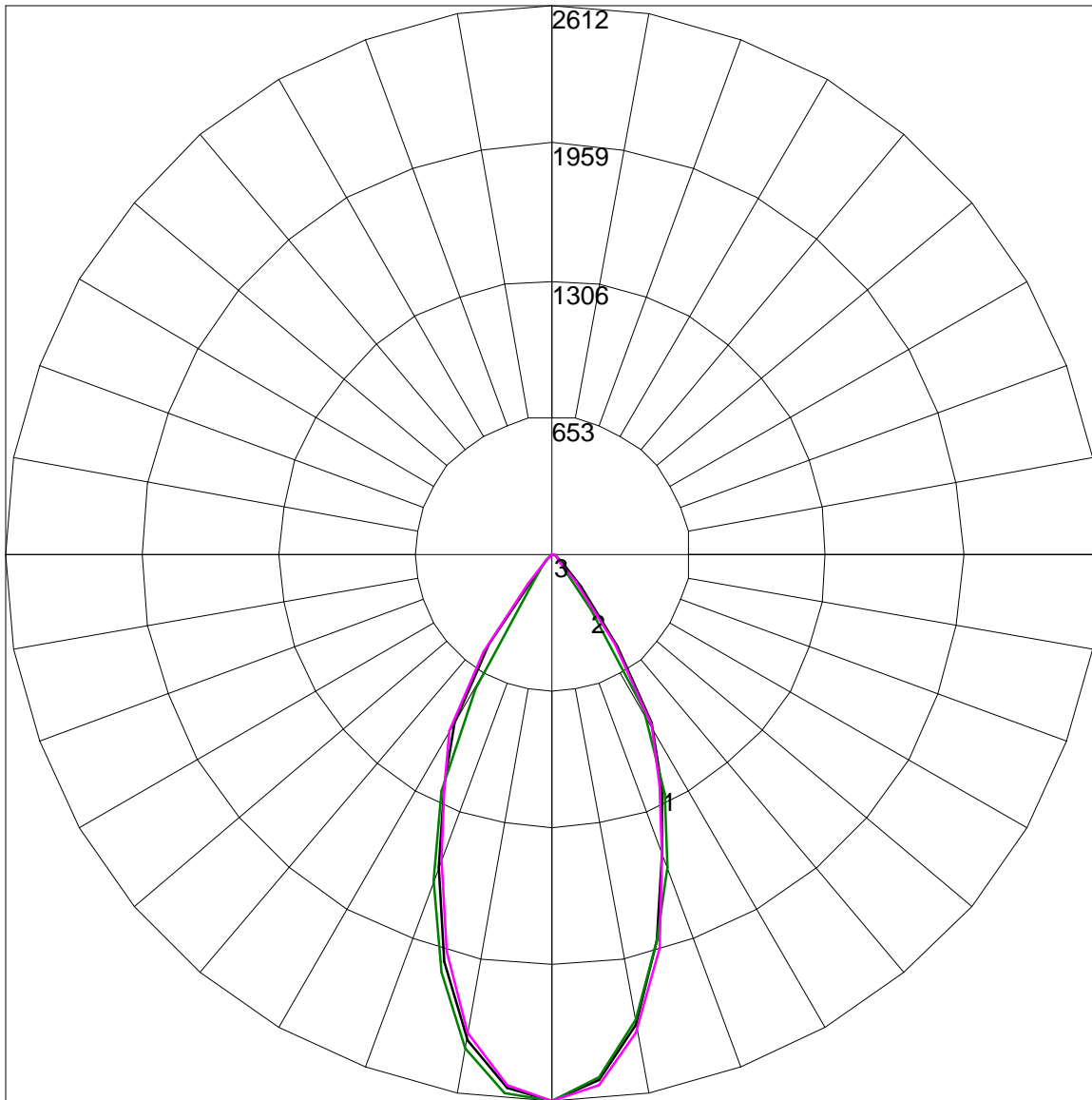
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

POLAR GRAPH



Maximum Candela = 2612.397 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)