

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_3 ~ C08XXSQXT-20LXXK-MDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_3_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-MD-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, Medium Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Solite Lens, Regressed in Lower Trim
[OTHER] 41.1 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	1556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.72
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	4714	2720	6263
55	858	549	893
65	277	221	266
75	175	207	153
85	649	306	481

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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	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373
5	2609.133	2649.797	2651.851	2688.506	2691.039	2650.269	2655.216	2627.141	2625.320	2586.300
10	2269.736	2336.594	2348.293	2415.485	2423.258	2349.677	2352.385	2293.579	2298.080	2233.059
15	1820.947	1902.686	1921.257	1995.339	2003.496	1926.171	1932.431	1851.875	1857.755	1793.785
20	1386.924	1476.124	1503.261	1552.652	1554.510	1490.393	1496.911	1421.746	1422.568	1398.278
25	1025.910	1101.741	1116.755	1172.145	1162.307	1096.076	1088.517	1050.593	1059.751	1055.735
30	712.510	710.208	684.374	823.331	829.533	699.322	670.550	705.110	752.647	676.459
35	421.493	331.307	308.584	474.232	518.520	336.920	299.563	377.378	466.801	317.148
40	195.657	119.630	112.458	201.061	258.634	119.052	100.390	151.288	234.035	121.672
45	77.492	43.620	44.708	74.507	102.946	39.895	35.806	51.781	97.680	47.267
50	28.833	18.814	18.476	29.309	34.707	16.994	15.173	18.718	39.111	20.786
55	11.445	8.836	7.318	11.991	11.907	7.242	6.142	10.347	15.397	10.403
60	5.330	3.615	3.851	5.678	4.700	3.898	3.496	5.483	6.782	6.490
65	2.725	2.815	2.168	2.871	2.612	3.182	3.486	4.353	4.520	4.276
70	1.231	1.743	1.835	1.299	1.191	4.028	3.780	3.001	3.510	4.228
75	1.053	1.218	1.247	1.095	0.918	3.205	3.572	3.467	4.095	3.802
80	1.020	0.863	1.095	1.002	0.950	4.721	5.124	5.034	3.729	4.520
85	1.314	0.980	0.621	0.886	0.975	5.357	5.418	5.847	5.883	6.854
90	1.195	0.441	0.907	0.497	1.168	7.776	3.207	8.066	3.922	6.544
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	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373	2737.373
5	2576.297	2527.838	2522.801	2577.529	2580.550	2617.976	2609.133
10	2222.600	2146.718	2140.868	2225.019	2226.451	2281.644	2269.736
15	1788.873	1700.275	1693.233	1789.307	1792.562	1840.888	1820.947
20	1394.680	1299.198	1278.640	1379.970	1387.904	1415.938	1386.924
25	1039.548	962.729	934.845	1015.747	1017.641	1055.728	1025.910
30	647.781	641.859	634.827	635.952	608.360	724.748	712.510
35	295.102	337.210	368.656	293.037	265.959	403.950	421.493
40	109.119	141.161	175.815	103.187	91.649	168.119	195.657
45	43.362	54.232	72.863	38.336	35.540	57.568	77.492
50	19.728	21.925	28.286	18.338	15.041	20.990	28.833
55	9.603	9.626	12.660	7.748	5.896	9.334	11.445
60	5.793	4.768	6.728	2.976	3.191	4.443	5.330

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65	4.710	4.630	4.360	2.351	2.363	2.186	2.725
70	4.050	4.674	4.259	1.675	1.107	1.559	1.231
75	4.554	4.824	3.949	1.247	1.187	1.283	1.053
80	4.912	5.162	5.201	1.059	1.007	1.083	1.020
85	6.743	6.157	6.749	0.989	0.659	1.200	1.314
90	4.000	7.180	9.511	0.429	0.912	0.696	1.195
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	754.88	N.A.	48.50
0-30	1238.24	N.A.	79.60
0-40	1480.16	N.A.	95.10
0-60	1545.23	N.A.	99.30
0-80	1551.58	N.A.	99.70
0-90	1555.27	N.A.	99.90
10-90	1315.99	N.A.	84.60
20-40	725.27	N.A.	46.60
20-50	779.90	N.A.	50.10
40-70	68.60	N.A.	4.40
60-80	6.35	N.A.	0.40
70-80	2.83	N.A.	0.20
80-90	3.69	N.A.	0.20
90-110	0.97	N.A.	0.10
90-120	0.97	N.A.	0.10
90-130	0.97	N.A.	0.10
90-150	0.97	N.A.	0.10
90-180	0.97	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1556.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	239.27
10-20	515.61
20-30	483.35
30-40	241.92
40-50	54.63
50-60	10.45
60-70	3.52
70-80	2.83
80-90	3.69
90-100	0.97
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

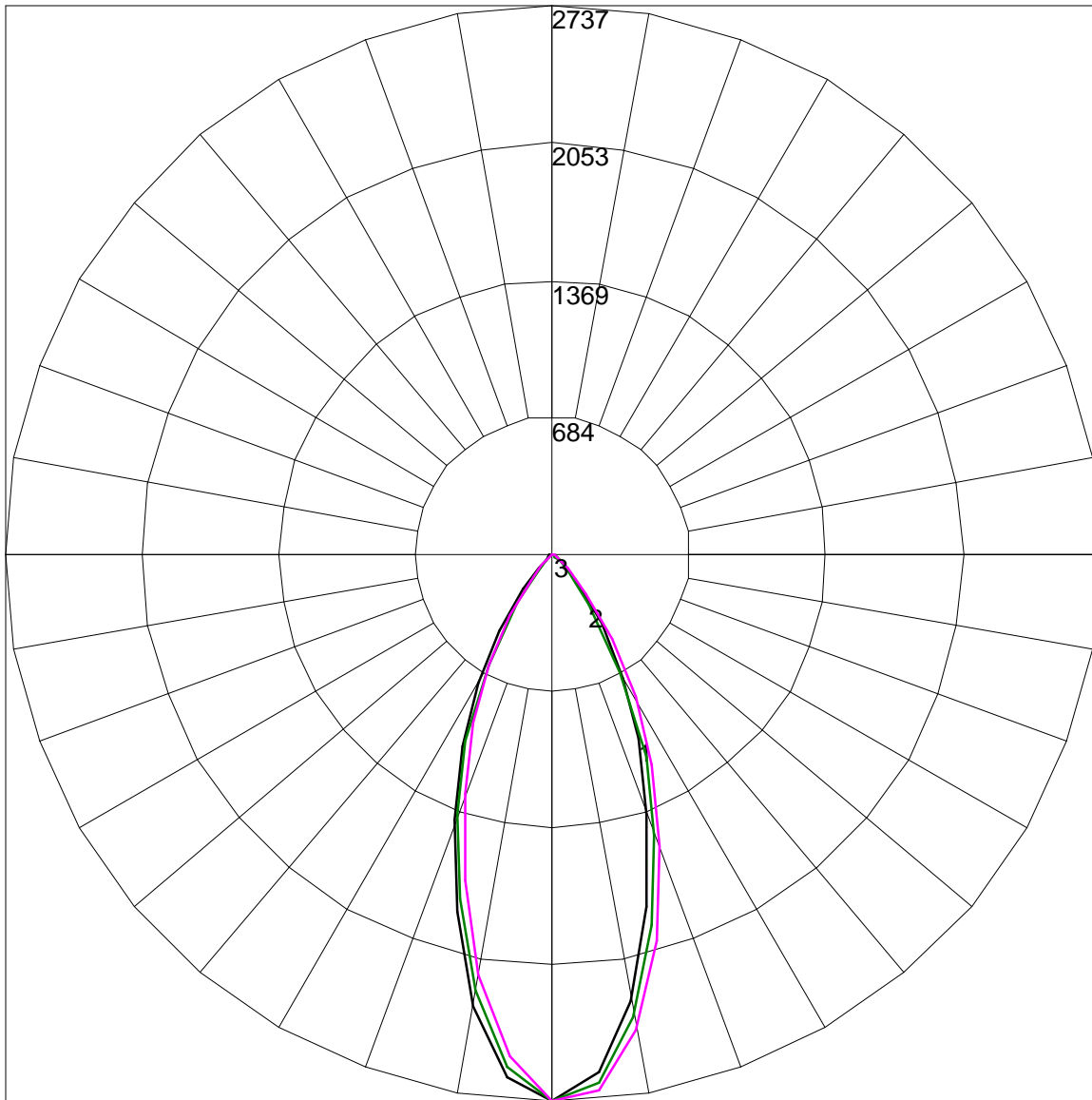
Effective Floor Cavity Reflectance 0.20

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

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POLAR GRAPH



Maximum Candela = 2737.373 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)