

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_9 ~ C08XXSQXT-10LXXK-WDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_9_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-10L-xxK-WD-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, Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Clear Glass Lens, Regressed in Lower Trim
[OTHER] 47.4 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	734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
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	1554	992	1335
55	259	101	196
65	65	81	91
75	132	93	77
85	215	201	271

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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	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015
5	1097.336	1108.281	1107.029	1102.735	1091.145	1107.477	1103.014	1105.201	1084.925	1079.225
10	1008.162	1029.026	1028.161	1021.670	995.952	1020.686	1016.119	1016.385	984.895	970.994
15	857.058	890.482	890.859	875.424	839.180	873.531	865.297	862.210	826.676	815.991
20	676.331	722.953	725.238	696.691	655.986	698.731	696.980	676.956	654.271	680.098
25	526.231	554.517	545.527	537.215	516.380	551.324	555.606	528.578	534.244	556.629
30	404.799	346.848	311.874	391.827	392.961	371.282	348.417	407.532	416.322	384.801
35	244.869	125.144	103.428	202.110	197.634	121.630	87.701	215.320	244.548	124.180
40	86.679	41.018	38.286	54.455	57.244	44.808	44.424	49.658	92.416	39.743
45	25.538	19.602	16.312	21.496	21.943	22.157	21.641	25.962	30.162	20.695
50	11.202	6.527	4.586	8.501	8.961	8.542	7.616	12.330	13.020	7.071
55	3.453	1.673	1.343	2.189	2.616	3.054	2.606	4.085	4.762	2.447
60	1.092	0.984	0.769	0.884	0.986	1.939	1.912	2.061	1.856	1.464
65	0.635	0.785	0.799	0.735	0.897	1.653	1.512	1.776	1.685	1.569
70	0.708	0.632	0.436	0.609	0.621	1.882	1.926	1.698	1.532	1.742
75	0.792	0.682	0.558	0.417	0.464	2.106	2.092	2.058	1.575	1.904
80	0.526	0.584	0.493	0.551	0.511	2.077	2.141	1.875	2.382	2.340
85	0.435	0.408	0.408	0.613	0.549	2.914	2.869	2.739	2.854	3.059
90	0.000	0.000	0.000	0.000	0.000	3.476	4.051	3.447	3.881	3.985
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	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015	1124.015
5	1076.504	1079.430	1087.576	1086.222	1086.007	1088.589	1097.336
10	969.096	973.642	992.310	981.699	983.233	986.761	1008.162
15	821.558	814.993	840.807	822.362	831.889	827.675	857.058
20	680.436	656.754	664.971	660.006	679.914	658.789	676.331
25	550.713	543.378	520.022	553.430	556.492	535.576	526.231
30	360.998	407.153	414.274	407.682	380.639	414.001	404.799
35	142.757	218.338	276.360	139.654	142.660	224.738	244.869
40	41.736	56.597	121.766	46.617	48.693	55.501	86.679
45	20.603	24.746	39.081	23.916	23.911	25.562	25.538
50	7.742	12.072	16.135	9.748	8.961	11.890	11.202
55	2.599	4.172	7.494	3.226	2.874	3.796	3.453
60	1.686	1.673	2.933	1.471	1.317	1.059	1.092

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65	1.501	1.281	1.533	0.976	0.909	0.732	0.635
70	1.643	1.639	1.719	0.790	0.849	0.813	0.708
75	1.674	2.042	1.543	0.544	0.610	0.720	0.792
80	2.268	2.127	2.436	0.556	0.429	0.519	0.526
85	3.076	3.162	2.798	0.456	0.547	0.438	0.435
90	4.052	3.897	3.729	0.000	0.000	0.000	0.000
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	336.73	N.A.	45.90
0-30	582.16	N.A.	79.30
0-40	703.64	N.A.	95.80
0-60	729.44	N.A.	99.30
0-80	732.03	N.A.	99.70
0-90	733.86	N.A.	99.90
10-90	632.52	N.A.	86.10
20-40	366.92	N.A.	50.00
20-50	388.79	N.A.	52.90
40-70	27.06	N.A.	3.70
60-80	2.59	N.A.	0.40
70-80	1.33	N.A.	0.20
80-90	1.82	N.A.	0.20
90-110	0.52	N.A.	0.10
90-120	0.52	N.A.	0.10
90-130	0.52	N.A.	0.10
90-150	0.52	N.A.	0.10
90-180	0.52	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	734.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.34
10-20	235.39
20-30	245.43
30-40	121.48
40-50	21.88
50-60	3.92
60-70	1.26
70-80	1.33
80-90	1.82
90-100	0.52
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

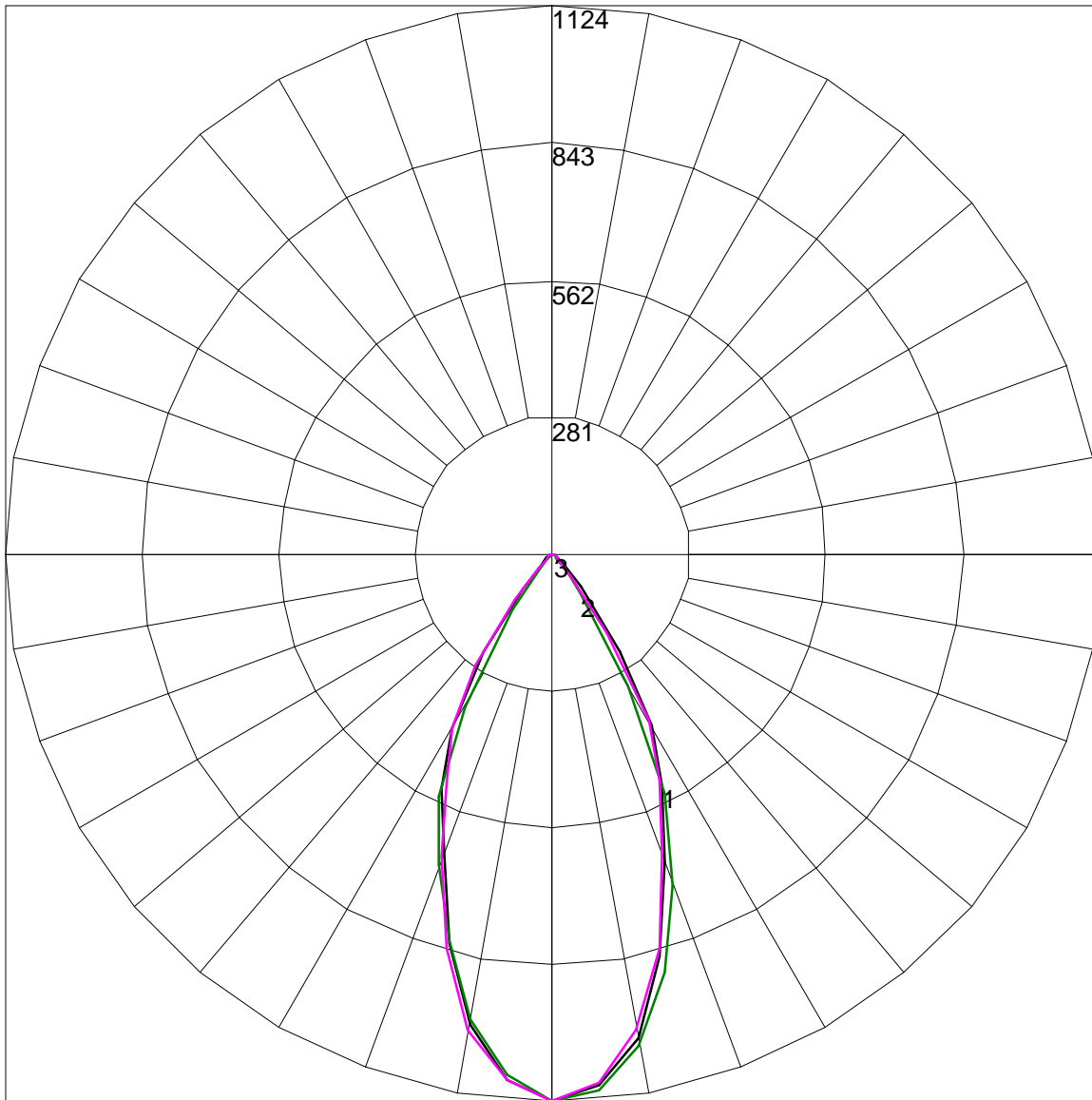
Effective Floor Cavity Reflectance 0.20

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

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POLAR GRAPH



Maximum Candela = 1124.015 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)