

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_6 ~ C08XXSQXT-10LXXK-NDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_6_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-10L-xxK-ND-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, Narrow Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[OTHER] 21.9 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	949
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.42
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	193	236	112
55	54	75	56
65	47	58	48
75	70	83	88
85	244	308	172

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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	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093
5	2854.811	2979.197	3010.167	3143.081	3172.777	3215.774	3405.471	3456.258	3582.042	3530.361
10	1674.556	1787.209	1791.436	1930.364	1926.122	2070.021	2297.584	2337.446	2512.109	2414.838
15	921.582	993.327	993.558	1050.711	1028.547	1130.501	1261.050	1276.451	1395.576	1332.077
20	597.621	659.881	663.324	657.524	616.582	671.814	725.680	714.432	763.128	758.974
25	472.276	497.048	493.890	505.393	461.605	491.742	516.882	491.100	504.384	516.411
30	355.955	316.479	302.937	379.786	363.642	289.503	302.652	378.577	392.183	272.120
35	182.840	95.136	99.285	220.672	176.708	78.536	86.605	181.141	236.337	62.591
40	44.630	9.229	8.508	56.607	23.664	6.570	10.704	30.429	58.575	4.798
45	3.171	3.514	3.875	4.143	1.849	2.905	3.630	3.004	2.053	2.171
50	1.415	2.258	1.993	1.302	0.908	1.689	1.821	1.086	0.905	0.859
55	0.722	1.120	1.002	0.768	0.752	0.947	1.542	0.895	0.699	0.761
60	0.627	0.589	1.056	0.735	0.619	0.777	0.830	0.822	0.923	0.755
65	0.463	0.474	0.569	0.516	0.468	0.932	0.774	1.024	0.756	0.972
70	0.557	0.559	0.479	0.644	0.414	0.970	1.000	0.813	0.853	1.344
75	0.422	0.544	0.498	0.444	0.531	1.636	1.350	1.338	1.487	1.603
80	0.301	0.443	0.452	0.423	0.302	2.320	2.235	2.478	2.230	2.205
85	0.495	0.543	0.624	0.671	0.348	3.149	2.655	2.942	2.704	3.137
90	0.330	0.129	0.340	0.151	0.721	4.134	1.756	4.062	1.326	4.624
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	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093	3783.093
5	3540.970	3433.295	3435.309	3085.993	2937.524	2938.352	2854.811
10	2418.378	2250.854	2234.432	1928.100	1767.406	1774.401	1674.556
15	1335.003	1212.809	1200.771	1058.260	973.267	971.350	921.582
20	755.308	688.169	682.652	673.572	639.535	601.774	597.621
25	511.453	479.358	497.827	515.581	496.983	466.202	472.276
30	251.368	344.702	416.785	311.347	291.229	366.689	355.955
35	51.875	143.120	262.276	88.435	79.371	200.124	182.840
40	3.671	13.199	63.394	8.203	6.722	47.261	44.630
45	1.575	1.327	4.469	2.850	2.340	2.360	3.171
50	0.677	0.706	0.893	1.160	0.985	1.341	1.415
55	0.569	0.544	0.612	0.597	0.747	0.784	0.722
60	0.661	0.562	0.905	0.475	0.576	0.657	0.627

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65	1.361	0.943	0.977	0.642	0.585	0.675	0.463
70	0.915	1.365	1.139	0.449	0.564	0.463	0.557
75	1.602	1.344	1.693	0.432	0.534	0.375	0.422
80	2.272	2.527	2.558	0.434	0.380	0.446	0.301
85	3.341	3.293	2.589	0.402	0.281	0.377	0.495
90	1.227	4.629	3.082	0.099	0.394	0.206	0.330
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	612.96	N.A.	64.60
0-30	840.95	N.A.	88.60
0-40	938.26	N.A.	98.90
0-60	945.00	N.A.	99.60
0-80	946.85	N.A.	99.80
0-90	948.62	N.A.	100.00
10-90	675.07	N.A.	71.10
20-40	325.30	N.A.	34.30
20-50	331.24	N.A.	34.90
40-70	7.49	N.A.	0.80
60-80	1.85	N.A.	0.20
70-80	1.10	N.A.	0.10
80-90	1.78	N.A.	0.20
90-110	0.47	N.A.	0.00
90-120	0.47	N.A.	0.00
90-130	0.47	N.A.	0.00
90-150	0.47	N.A.	0.00
90-180	0.47	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	949.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.55
10-20	339.41
20-30	227.99
30-40	97.31
40-50	5.93
50-60	0.81
60-70	0.75
70-80	1.10
80-90	1.78
90-100	0.47
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

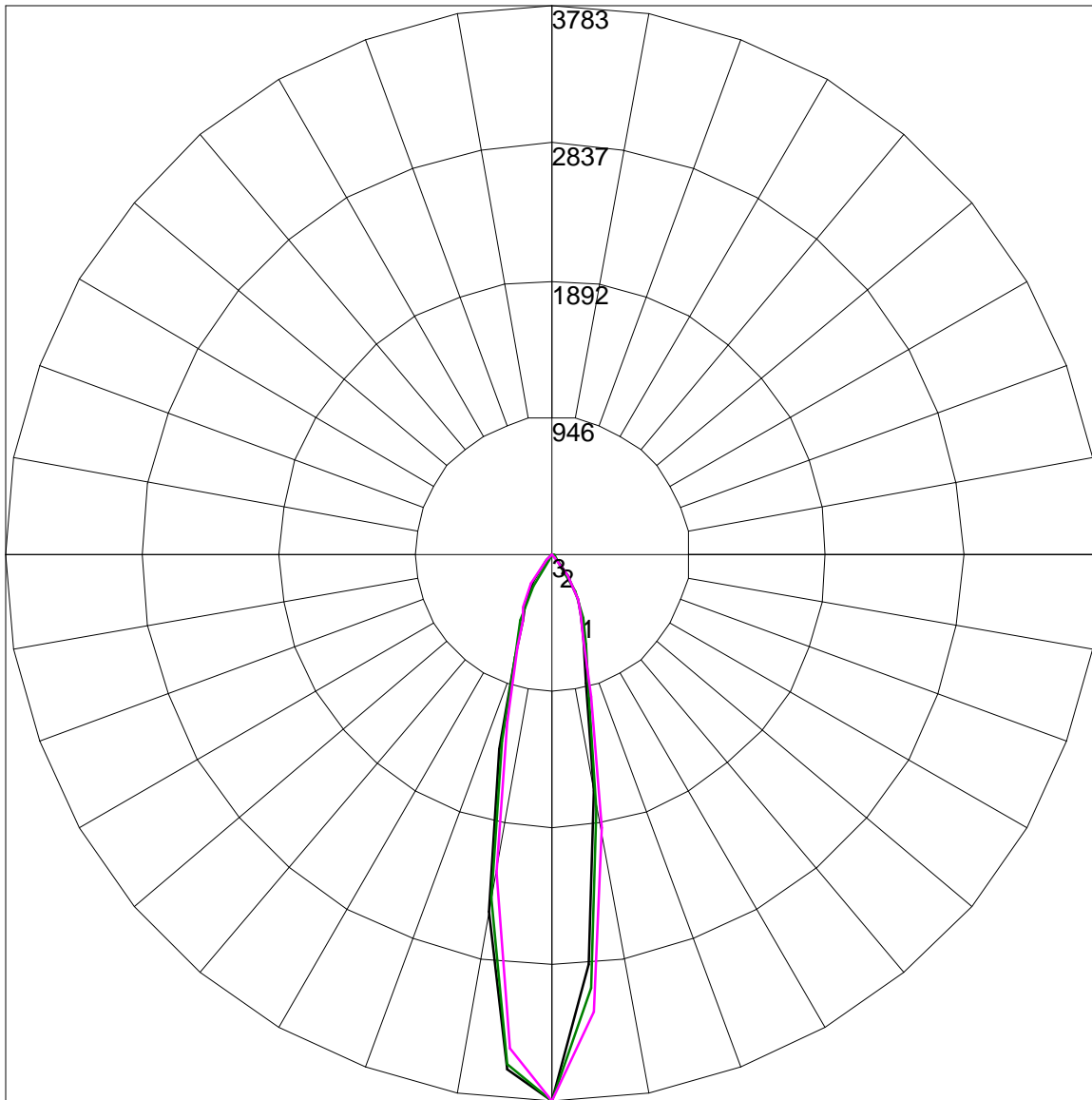
Effective Floor Cavity Reflectance 0.20

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	79	85	82	79	84	81	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	76	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 3783.093 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)