

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_13 ~ C08XXSQXT-10LXXK-XWEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_13_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-10L-xxK-XW-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, Xtra Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Clear Glass Lens, Regressed in Lower Trim
[OTHER] 62.4 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	746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.88
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	2762	2645	2764
55	482	223	485
65	86	81	98
75	104	80	92
85	194	327	287

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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	845.299	845.299	845.299	845.299	845.299	845.299	845.299	845.299	845.299	845.299
5	839.142	842.807	841.566	841.469	837.877	838.424	838.344	830.753	829.305	822.858
10	808.374	818.374	817.261	817.397	808.538	804.677	803.951	790.953	788.478	780.933
15	752.936	775.723	778.226	770.725	753.405	747.849	747.997	724.473	720.753	723.705
20	671.695	724.925	720.063	698.129	671.139	675.050	673.256	639.619	643.941	668.397
25	591.670	628.583	620.931	618.811	588.648	596.939	601.989	557.222	586.481	582.128
30	481.918	480.710	447.001	506.823	485.761	420.135	424.621	438.648	468.138	383.258
35	301.200	189.532	218.898	347.043	290.376	165.184	145.959	241.637	263.943	139.991
40	115.125	85.725	85.104	121.564	95.549	76.723	75.378	81.197	85.717	65.996
45	45.396	44.768	43.488	48.480	45.437	39.310	38.242	39.056	41.361	33.654
50	21.798	14.272	14.690	23.163	21.543	13.876	12.957	18.213	20.485	11.386
55	6.428	1.957	2.974	6.239	6.471	3.933	3.232	5.683	6.235	2.965
60	1.295	1.137	1.114	1.272	1.576	2.104	1.898	2.122	1.673	1.738
65	0.843	0.950	0.791	1.021	0.967	1.745	1.479	1.820	1.821	1.680
70	0.650	0.658	0.790	0.610	0.779	1.801	1.761	1.946	1.980	1.877
75	0.626	0.513	0.483	0.552	0.555	2.198	1.990	1.702	1.755	2.220
80	0.523	0.520	0.562	0.516	0.503	2.047	2.303	2.649	2.145	2.608
85	0.393	0.646	0.663	0.503	0.582	3.085	2.878	3.047	3.358	3.174
90	0.502	0.226	0.377	0.220	0.576	3.081	1.550	2.948	1.700	3.096
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	845.299	845.299	845.299	845.299	845.299	845.299	845.299
5	822.384	822.673	827.413	829.824	831.774	836.536	839.142
10	781.841	780.378	791.178	796.103	796.080	803.404	808.374
15	723.447	714.013	726.466	735.211	738.661	745.940	752.936
20	667.225	636.112	633.882	671.326	674.601	662.911	671.695
25	586.061	554.676	551.575	615.869	605.743	597.682	591.670
30	367.597	414.636	450.876	451.424	440.251	499.365	481.918
35	121.511	213.540	257.782	148.437	169.167	309.405	301.200
40	64.021	70.963	89.404	68.141	71.060	95.938	115.125
45	32.240	35.956	38.449	36.539	37.782	45.012	45.396
50	9.459	16.951	20.362	13.952	14.422	22.577	21.798
55	2.529	5.451	7.108	3.567	3.665	6.982	6.428
60	1.561	2.027	2.061	1.494	1.410	1.850	1.295

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65	1.551	1.813	1.662	0.974	0.955	0.944	0.843
70	1.766	2.067	1.740	0.913	0.849	0.644	0.650
75	1.821	2.316	2.195	0.637	0.829	0.603	0.626
80	2.459	2.622	2.381	0.410	0.498	0.477	0.523
85	3.450	3.221	2.955	0.485	0.412	0.683	0.393
90	1.781	3.125	3.669	0.272	0.396	0.366	0.502
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	286.39	N.A.	38.40
0-30	550.58	N.A.	73.90
0-40	699.71	N.A.	93.90
0-60	740.50	N.A.	99.30
0-80	743.30	N.A.	99.70
0-90	745.12	N.A.	99.90
10-90	666.65	N.A.	89.40
20-40	413.32	N.A.	55.40
20-50	447.94	N.A.	60.10
40-70	42.17	N.A.	5.70
60-80	2.80	N.A.	0.40
70-80	1.42	N.A.	0.20
80-90	1.81	N.A.	0.20
90-110	0.41	N.A.	0.10
90-120	0.41	N.A.	0.10
90-130	0.41	N.A.	0.10
90-150	0.41	N.A.	0.10
90-180	0.41	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	745.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.47
10-20	207.92
20-30	264.19
30-40	149.13
40-50	34.62
50-60	6.17
60-70	1.38
70-80	1.42
80-90	1.81
90-100	0.41
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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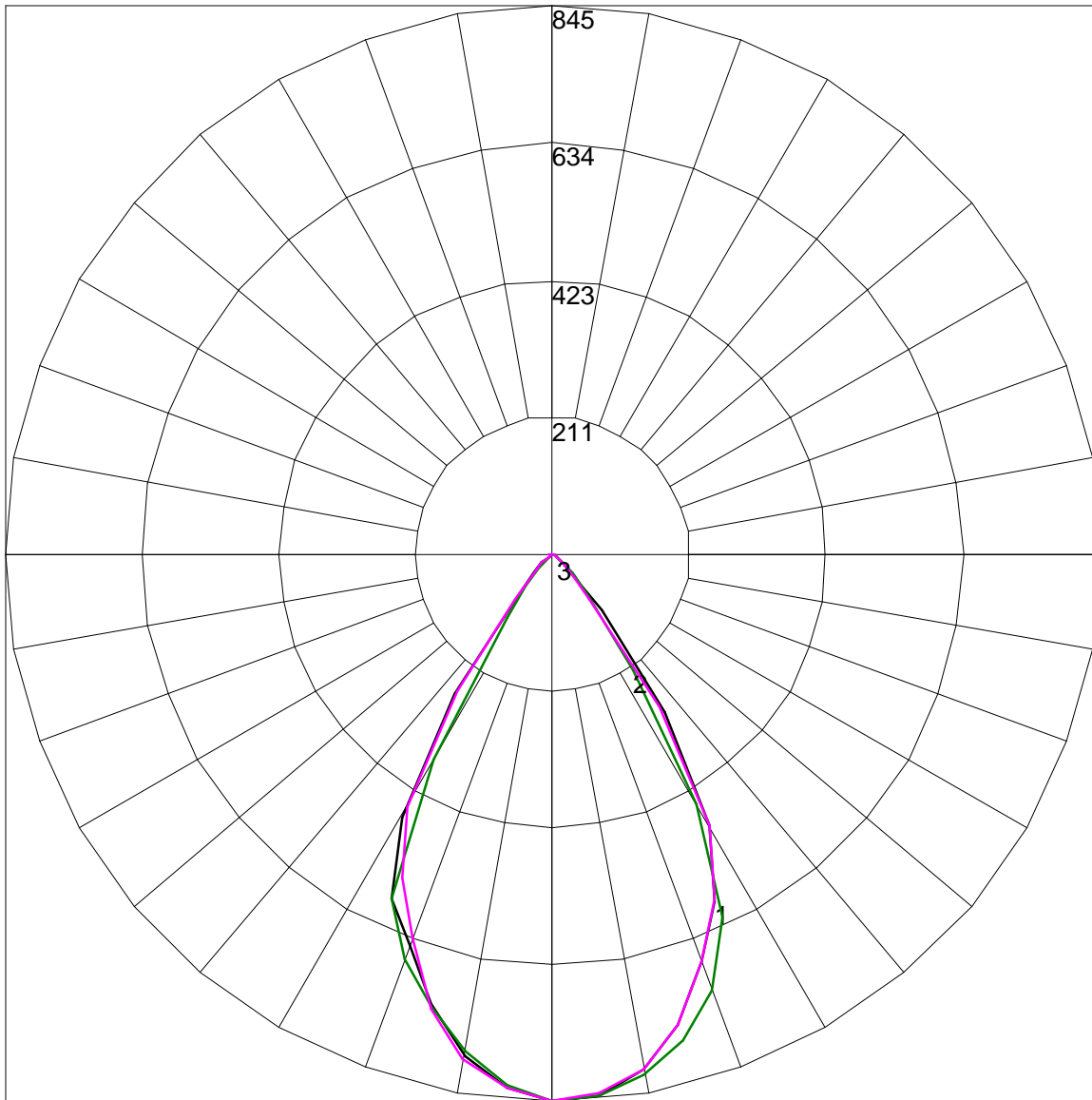
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	68	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52

POLAR GRAPH



Maximum Candela = 845.299 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)