

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_10 ~ C08XXSQXT-10LXXK-WDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_10_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-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	813
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	9.1
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	1691	1293	1629
55	341	163	266
65	90	96	68
75	84	77	104
85	297	333	273

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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	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157
5	1213.790	1213.101	1210.700	1212.875	1226.074	1224.355	1228.409	1229.959	1233.522	1242.665
10	1098.591	1094.348	1091.224	1093.898	1116.870	1124.417	1127.544	1124.298	1136.603	1150.573
15	922.592	926.779	922.713	919.763	942.752	957.621	964.947	948.150	970.097	985.479
20	736.330	764.340	771.187	741.994	743.835	771.558	780.905	744.281	766.010	793.405
25	596.420	613.775	606.678	600.827	587.381	618.118	615.981	585.385	590.101	613.571
30	450.433	417.390	414.488	448.992	459.084	407.398	397.336	456.236	448.821	348.658
35	262.872	166.049	155.548	258.145	254.149	160.968	122.387	174.093	254.084	115.059
40	97.644	44.496	47.296	95.926	82.328	48.657	50.339	49.403	70.419	39.440
45	27.804	22.553	21.258	24.348	26.778	23.832	23.659	23.036	21.729	17.327
50	13.177	8.841	7.643	11.581	12.445	8.812	8.402	9.462	8.915	5.133
55	4.542	2.510	2.178	3.744	3.542	2.896	2.482	2.352	2.145	1.430
60	1.297	1.040	1.212	1.277	0.982	1.691	1.647	1.037	1.058	1.169
65	0.886	0.730	0.942	0.808	0.673	1.215	1.677	1.602	0.958	0.896
70	0.686	0.601	0.629	0.609	0.471	1.699	1.880	1.644	1.407	1.592
75	0.505	0.684	0.461	0.727	0.625	2.324	1.849	2.041	2.481	1.799
80	0.445	0.418	0.765	0.416	0.575	2.243	2.471	2.936	2.719	2.243
85	0.602	0.499	0.675	0.565	0.553	3.248	3.191	3.038	3.344	3.930
90	0.671	0.529	0.471	0.130	0.463	4.227	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. 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	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157	1260.157
5	1245.115	1240.043	1228.745	1207.717	1210.657	1227.169	1213.790
10	1154.091	1146.032	1121.437	1092.144	1094.395	1118.228	1098.591
15	994.778	976.877	947.350	927.281	919.400	939.556	922.592
20	797.811	771.147	748.839	765.026	760.358	735.973	736.330
25	600.652	594.191	598.384	616.343	617.832	589.053	596.420
30	356.557	435.736	470.477	392.813	415.474	472.114	450.433
35	90.955	201.225	272.816	130.155	155.248	281.388	262.872
40	38.528	55.399	91.596	43.844	47.324	84.423	97.644
45	16.644	21.477	23.606	21.599	22.711	26.323	27.804
50	4.670	9.472	10.276	7.429	8.678	13.736	13.177
55	1.421	2.992	3.394	1.939	2.650	3.606	4.542
60	1.070	1.357	1.287	0.895	0.755	1.061	1.297

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65	1.202	1.216	0.973	0.653	0.603	0.787	0.886
70	1.471	1.535	1.467	0.675	0.499	0.635	0.686
75	1.921	1.832	2.071	0.832	0.797	0.683	0.505
80	2.486	1.959	2.794	0.445	0.563	0.507	0.445
85	2.948	3.680	3.147	0.714	0.669	0.576	0.602
90	0.000	4.184	0.000	0.000	0.644	0.478	0.671
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	376.96	N.A.	46.40
0-30	650.11	N.A.	80.00
0-40	782.89	N.A.	96.30
0-60	808.54	N.A.	99.50
0-80	811.00	N.A.	99.80
0-90	812.68	N.A.	100.00
10-90	699.17	N.A.	86.00
20-40	405.93	N.A.	49.90
20-50	428.06	N.A.	52.70
40-70	26.70	N.A.	3.30
60-80	2.46	N.A.	0.30
70-80	1.40	N.A.	0.20
80-90	1.68	N.A.	0.20
90-110	0.20	N.A.	0.00
90-120	0.20	N.A.	0.00
90-130	0.20	N.A.	0.00
90-150	0.20	N.A.	0.00
90-180	0.20	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	812.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.50
10-20	263.46
20-30	273.15
30-40	132.78
40-50	22.13
50-60	3.52
60-70	1.05
70-80	1.40
80-90	1.68
90-100	0.20
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

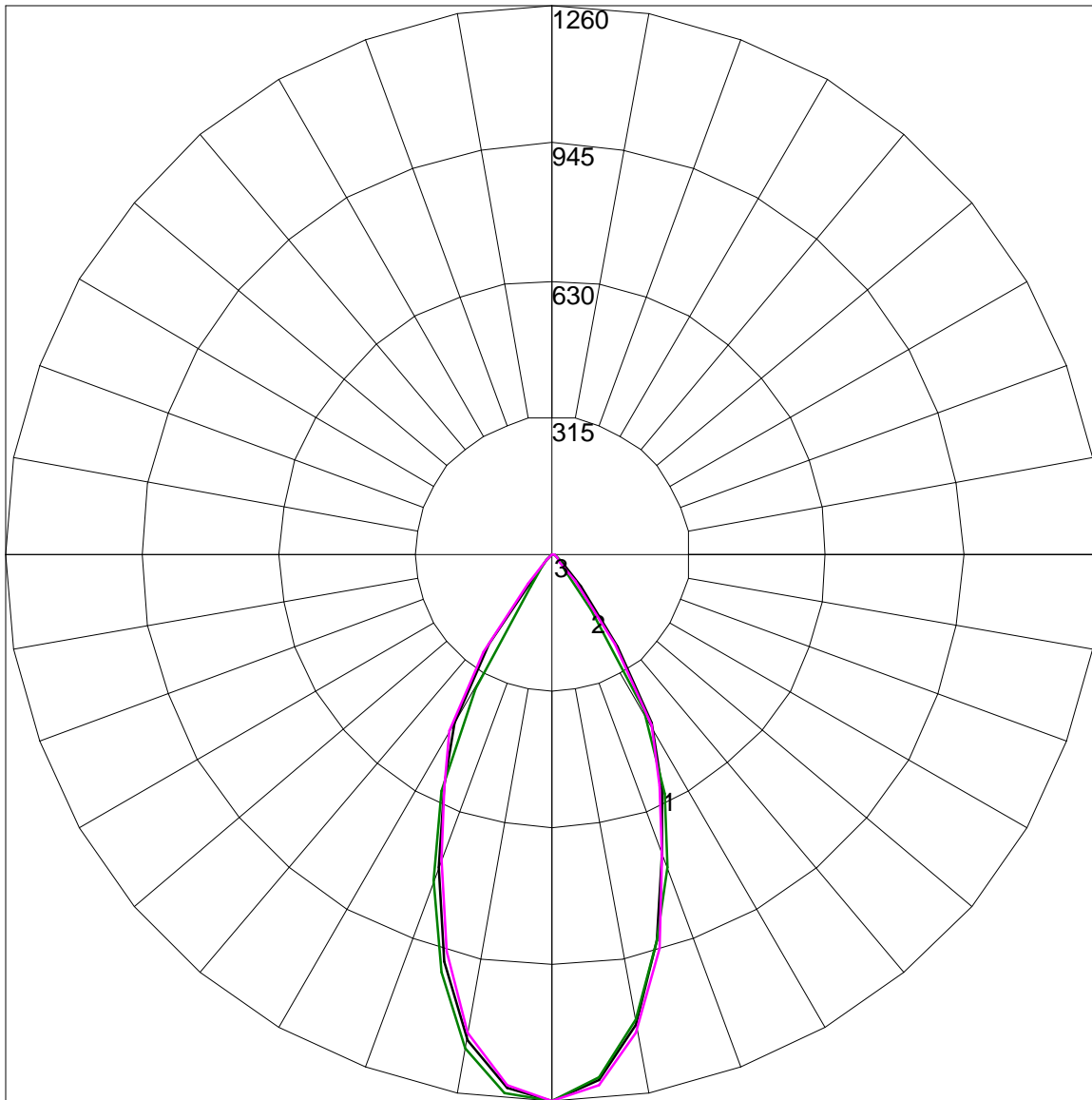
Effective Floor Cavity Reflectance 0.20

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	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	82	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

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POLAR GRAPH



Maximum Candela = 1260.157 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)