

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-20LXXK-WDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_11_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-WD-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, Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Solite Lens, Regressed in Lower Trim
[OTHER] 48 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	1535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.80
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-20LXXK-WDEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5283	4222	5869
55	1219	997	1147
65	378	330	295
75	154	285	252
85	414	485	402

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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	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857
5	2225.483	2241.169	2243.930	2259.047	2261.244	2215.049	2215.726	2200.120	2199.073	2177.566
10	2028.749	2062.892	2067.594	2102.246	2106.040	2016.562	2015.197	1984.221	1986.288	1949.549
15	1726.750	1779.142	1785.352	1826.301	1834.862	1725.787	1723.318	1676.479	1683.921	1653.315
20	1392.239	1460.257	1469.672	1495.061	1503.618	1398.224	1402.678	1348.905	1366.914	1358.676
25	1084.134	1135.595	1149.848	1176.324	1181.790	1038.693	1056.836	1045.730	1078.851	1046.924
30	779.451	749.335	771.845	875.380	860.004	637.872	659.890	743.741	785.102	661.724
35	456.632	369.893	395.772	568.624	519.369	294.800	313.078	439.475	470.749	320.033
40	209.137	151.544	163.735	295.923	244.710	113.030	123.720	208.368	222.952	133.323
45	86.837	63.841	69.409	126.806	96.474	48.065	51.492	85.094	94.388	58.496
50	36.318	29.523	31.146	51.175	38.061	20.415	22.460	33.828	40.104	26.616
55	16.249	12.002	13.300	20.365	15.299	7.506	9.178	14.435	17.647	11.465
60	7.286	5.260	5.697	8.771	5.934	4.422	4.390	6.274	8.471	5.747
65	3.715	2.934	3.239	3.141	2.897	3.346	3.739	4.004	5.457	4.418
70	2.267	1.845	2.407	1.651	1.887	3.460	4.003	3.588	4.126	4.456
75	0.925	1.332	1.717	1.095	1.515	3.582	3.754	3.985	4.212	3.831
80	0.931	0.885	1.007	1.273	0.964	5.220	4.653	4.862	4.970	4.767
85	0.839	0.691	0.983	1.039	0.815	5.426	6.336	7.080	5.890	5.883
90	1.225	0.341	1.211	0.901	0.711	6.766	7.868	6.026	7.240	6.870
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	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857	2279.857
5	2169.807	2142.720	2143.256	2208.036	2211.993	2227.165	2225.483
10	1937.180	1890.464	1893.225	2003.973	2010.830	2034.854	2028.749
15	1635.156	1569.642	1578.526	1717.413	1723.960	1741.414	1726.750
20	1333.729	1249.243	1265.882	1407.474	1415.405	1414.877	1392.239
25	1029.099	956.353	966.976	1090.795	1101.112	1105.338	1084.134
30	667.361	667.727	662.697	728.095	748.158	808.518	779.451
35	327.698	392.603	376.353	372.718	395.466	515.480	456.632
40	135.322	191.936	172.324	151.568	162.156	269.585	209.137
45	57.730	85.072	70.570	61.068	63.002	118.836	86.837
50	26.234	36.049	29.561	27.342	28.088	47.660	36.318
55	12.081	15.246	14.973	11.198	11.445	18.174	16.249
60	6.804	7.722	8.568	4.385	4.471	6.543	7.286

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65	5.362	5.216	5.491	2.382	2.547	3.260	3.715
70	4.747	3.834	4.028	1.745	1.953	1.716	2.267
75	4.498	4.425	4.259	1.152	1.291	1.112	0.925
80	5.333	5.555	5.696	1.235	1.111	0.995	0.931
85	6.212	6.874	6.330	1.079	0.873	0.656	0.839
90	8.274	7.800	7.406	0.909	0.974	0.346	1.225
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	680.73	N.A.	44.40
0-30	1169.61	N.A.	76.20
0-40	1437.2	N.A.	93.60
0-60	1522.66	N.A.	99.20
0-80	1529.86	N.A.	99.70
0-90	1533.76	N.A.	99.90
10-90	1329.33	N.A.	86.60
20-40	756.47	N.A.	49.30
20-50	827.17	N.A.	53.90
40-70	89.65	N.A.	5.80
60-80	7.20	N.A.	0.50
70-80	3.02	N.A.	0.20
80-90	3.89	N.A.	0.30
90-110	1.11	N.A.	0.10
90-120	1.11	N.A.	0.10
90-130	1.11	N.A.	0.10
90-150	1.11	N.A.	0.10
90-180	1.11	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1534.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.43
10-20	476.30
20-30	488.88
30-40	267.59
40-50	70.70
50-60	14.77
60-70	4.18
70-80	3.02
80-90	3.89
90-100	1.11
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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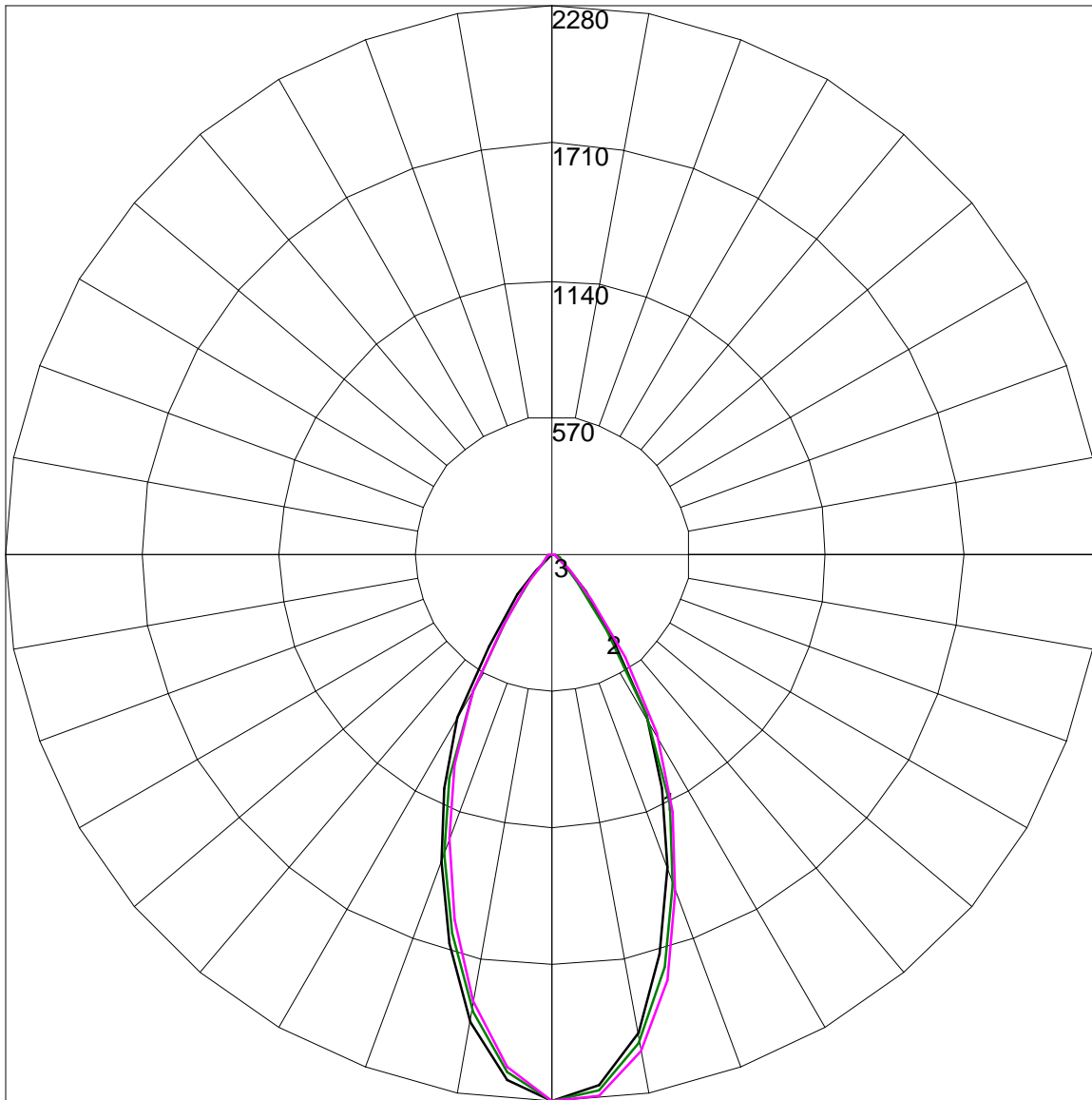
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

POLAR GRAPH



Maximum Candela = 2279.857 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)