

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-13LXXK-WDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_11_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-13L-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	998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3433	2744	3814
55	792	648	746
65	246	214	192
75	100	185	164
85	269	315	262

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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	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719
5	1446.380	1456.575	1458.369	1468.194	1469.622	1439.599	1440.039	1429.896	1429.216	1415.238
10	1318.519	1340.709	1343.766	1366.286	1368.752	1310.599	1309.712	1289.580	1290.923	1267.046
15	1122.245	1156.296	1160.331	1186.945	1192.509	1121.619	1120.015	1089.573	1094.410	1074.518
20	904.840	949.047	955.166	971.666	977.228	908.730	911.625	876.677	888.381	883.027
25	704.597	738.043	747.306	764.514	768.066	675.065	686.856	679.638	701.164	680.414
30	506.579	487.006	501.635	568.925	558.932	414.564	428.874	483.370	510.251	430.066
35	296.773	240.400	257.219	369.559	337.547	191.596	203.475	285.623	305.948	207.995
40	135.922	98.491	106.414	192.325	159.041	73.460	80.407	135.422	144.900	86.649
45	56.437	41.491	45.110	82.414	62.700	31.238	33.465	55.304	61.344	38.017
50	23.604	19.188	20.242	33.260	24.736	13.268	14.597	21.985	26.064	17.298
55	10.560	7.800	8.644	13.236	9.943	4.878	5.965	9.381	11.469	7.451
60	4.735	3.418	3.703	5.700	3.856	2.874	2.853	4.078	5.506	3.735
65	2.414	1.907	2.105	2.041	1.883	2.174	2.430	2.602	3.547	2.871
70	1.474	1.199	1.564	1.073	1.226	2.249	2.602	2.332	2.682	2.896
75	0.601	0.866	1.116	0.712	0.984	2.328	2.439	2.590	2.737	2.490
80	0.605	0.575	0.654	0.828	0.627	3.393	3.024	3.160	3.230	3.098
85	0.546	0.449	0.639	0.675	0.530	3.527	4.118	4.601	3.828	3.823
90	0.796	0.222	0.787	0.586	0.462	4.398	5.113	3.916	4.706	4.465
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	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719	1481.719
5	1410.195	1392.591	1392.939	1435.041	1437.613	1447.474	1446.380
10	1259.007	1228.646	1230.440	1302.417	1306.873	1322.487	1318.519
15	1062.717	1020.138	1025.911	1116.177	1120.431	1131.775	1122.245
20	866.814	811.905	822.719	914.742	919.896	919.554	904.840
25	668.830	621.551	628.455	708.926	715.632	718.378	704.597
30	433.729	433.968	430.698	473.202	486.241	525.470	506.579
35	212.976	255.160	244.598	242.236	257.021	335.020	296.773
40	87.948	124.743	111.996	98.506	105.388	175.208	135.922
45	37.519	55.290	45.864	39.689	40.946	77.234	56.437
50	17.050	23.429	19.212	17.770	18.255	30.975	23.604
55	7.852	9.909	9.731	7.278	7.438	11.812	10.560
60	4.422	5.018	5.568	2.850	2.906	4.252	4.735

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65	3.485	3.390	3.569	1.548	1.655	2.119	2.414
70	3.085	2.491	2.618	1.134	1.270	1.115	1.474
75	2.923	2.876	2.768	0.749	0.839	0.723	0.601
80	3.466	3.610	3.702	0.803	0.722	0.646	0.605
85	4.037	4.468	4.114	0.702	0.568	0.426	0.546
90	5.378	5.069	4.814	0.591	0.633	0.225	0.796
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	442.42	N.A.	44.40
0-30	760.15	N.A.	76.20
0-40	934.06	N.A.	93.60
0-60	989.61	N.A.	99.20
0-80	994.28	N.A.	99.70
0-90	996.82	N.A.	99.90
10-90	863.96	N.A.	86.60
20-40	491.64	N.A.	49.30
20-50	537.59	N.A.	53.90
40-70	58.26	N.A.	5.80
60-80	4.68	N.A.	0.50
70-80	1.96	N.A.	0.20
80-90	2.53	N.A.	0.30
90-110	0.72	N.A.	0.10
90-120	0.72	N.A.	0.10
90-130	0.72	N.A.	0.10
90-150	0.72	N.A.	0.10
90-180	0.72	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	997.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.86
10-20	309.56
20-30	317.73
30-40	173.91
40-50	45.95
50-60	9.60
60-70	2.72
70-80	1.96
80-90	2.53
90-100	0.72
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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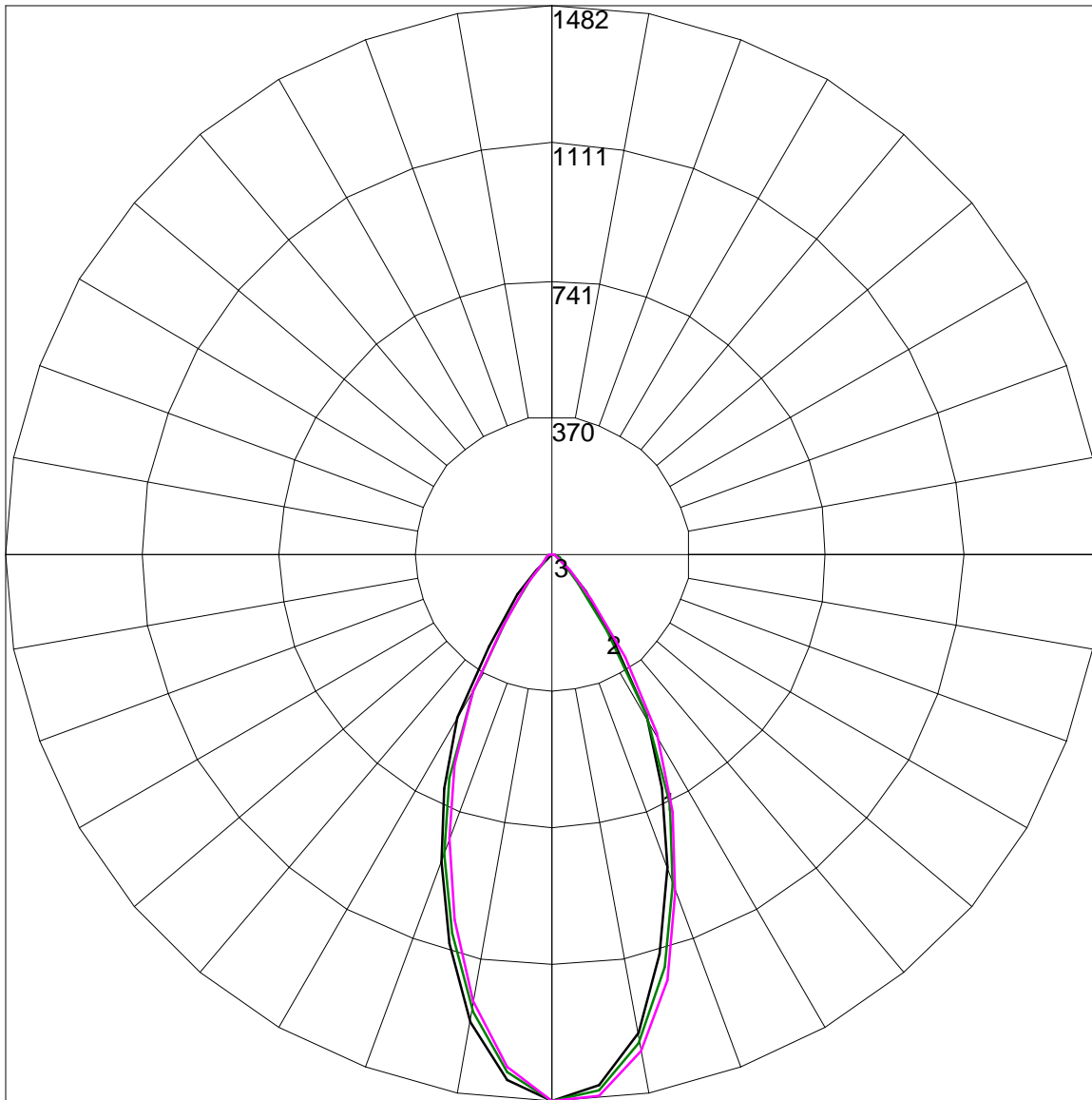
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	87	85	88	86	84	82
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	78	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	62	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 = 1481.719 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)