

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_14 ~ C08XXSQXT-30LXXK-XWEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_14
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-xxK-XW-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, Xtra Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2640
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	32.6
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	7543	6199	6932
55	1445	503	1044
65	254	259	221
75	346	338	348
85	1042	770	987

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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	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682
5	2982.903	2968.347	2968.865	2989.715	3013.662	2998.403	3012.572	2999.477	3005.985	3016.338
10	2831.320	2816.507	2824.360	2846.064	2883.582	2873.324	2892.571	2879.022	2883.207	2898.721
15	2606.033	2614.785	2657.602	2629.925	2671.133	2674.510	2699.587	2669.799	2667.697	2703.198
20	2345.488	2486.854	2492.025	2405.976	2377.849	2416.782	2440.438	2388.365	2360.930	2444.729
25	2133.724	2178.856	2148.819	2193.595	2102.466	2163.078	2186.244	2098.734	2061.253	2165.140
30	1716.749	1551.165	1456.801	1677.112	1747.036	1582.283	1574.264	1675.371	1692.564	1552.744
35	1007.135	554.566	652.344	954.232	1039.577	625.334	555.126	884.216	1019.954	615.989
40	377.101	222.119	225.666	306.392	287.966	240.852	252.106	279.639	300.379	271.173
45	123.999	104.145	101.899	107.834	113.958	110.953	115.409	117.683	115.971	128.122
50	59.254	32.446	31.322	43.681	50.626	35.159	37.921	47.983	46.096	37.100
55	19.266	7.128	6.706	9.939	13.925	8.424	9.526	14.792	10.570	6.237
60	3.831	3.598	2.832	2.737	3.786	5.154	5.965	5.810	4.108	3.624
65	2.492	2.786	2.543	2.068	2.174	5.013	5.852	5.001	4.272	4.533
70	1.830	1.612	2.625	1.858	1.862	5.206	5.889	6.026	5.300	5.626
75	2.081	1.826	2.036	1.737	2.094	7.277	6.978	7.571	6.877	5.941
80	1.724	2.096	2.035	1.591	2.132	11.296	9.047	9.508	9.116	8.285
85	2.111	1.648	1.560	1.278	2.000	11.491	13.374	12.014	12.021	10.527
90	1.702	0.000	0.000	0.000	1.635	15.041	0.000	0.000	0.000	14.832
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	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682	3038.682
5	3011.308	3002.254	2982.681	2953.908	2958.490	2962.915	2982.903
10	2892.070	2865.508	2820.896	2789.486	2789.540	2809.219	2831.320
15	2690.002	2639.756	2571.573	2561.062	2556.220	2564.968	2606.033
20	2429.227	2333.165	2265.089	2408.497	2379.352	2295.202	2345.488
25	2156.522	2051.717	2049.944	2183.508	2156.822	2078.573	2133.724
30	1463.857	1664.926	1742.868	1581.990	1572.625	1670.645	1716.749
35	595.662	946.184	1058.478	500.034	565.248	989.579	1007.135
40	289.756	291.457	373.224	232.498	222.309	330.071	377.101
45	133.558	141.112	128.472	111.249	108.159	122.015	123.999
50	32.391	56.336	57.017	32.357	35.678	53.516	59.254
55	5.922	12.912	15.264	6.669	7.221	12.819	19.266
60	4.157	4.205	4.486	3.379	3.412	4.043	3.831

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65	4.861	3.951	3.921	2.573	2.561	3.038	2.492
70	5.326	4.688	4.938	2.187	2.515	1.714	1.830
75	6.250	6.695	7.225	2.156	2.386	2.510	2.081
80	9.023	8.936	8.320	2.010	2.138	1.850	1.724
85	11.527	10.047	11.098	2.048	1.558	2.028	2.111
90	14.979	13.565	0.000	0.000	1.740	2.019	1.702
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	1020.73	N.A.	38.70
0-30	1970.00	N.A.	74.60
0-40	2502.18	N.A.	94.80
0-60	2623.59	N.A.	99.40
0-80	2632.13	N.A.	99.70
0-90	2638.39	N.A.	100.00
10-90	2357.45	N.A.	89.30
20-40	1481.45	N.A.	56.10
20-50	1587.86	N.A.	60.20
40-70	125.12	N.A.	4.70
60-80	8.54	N.A.	0.30
70-80	4.83	N.A.	0.20
80-90	6.26	N.A.	0.20
90-110	1.12	N.A.	0.00
90-120	1.12	N.A.	0.00
90-130	1.12	N.A.	0.00
90-150	1.12	N.A.	0.00
90-180	1.12	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2639.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.94
10-20	739.79
20-30	949.27
30-40	532.18
40-50	106.42
50-60	14.99
60-70	3.71
70-80	4.83
80-90	6.26
90-100	1.12
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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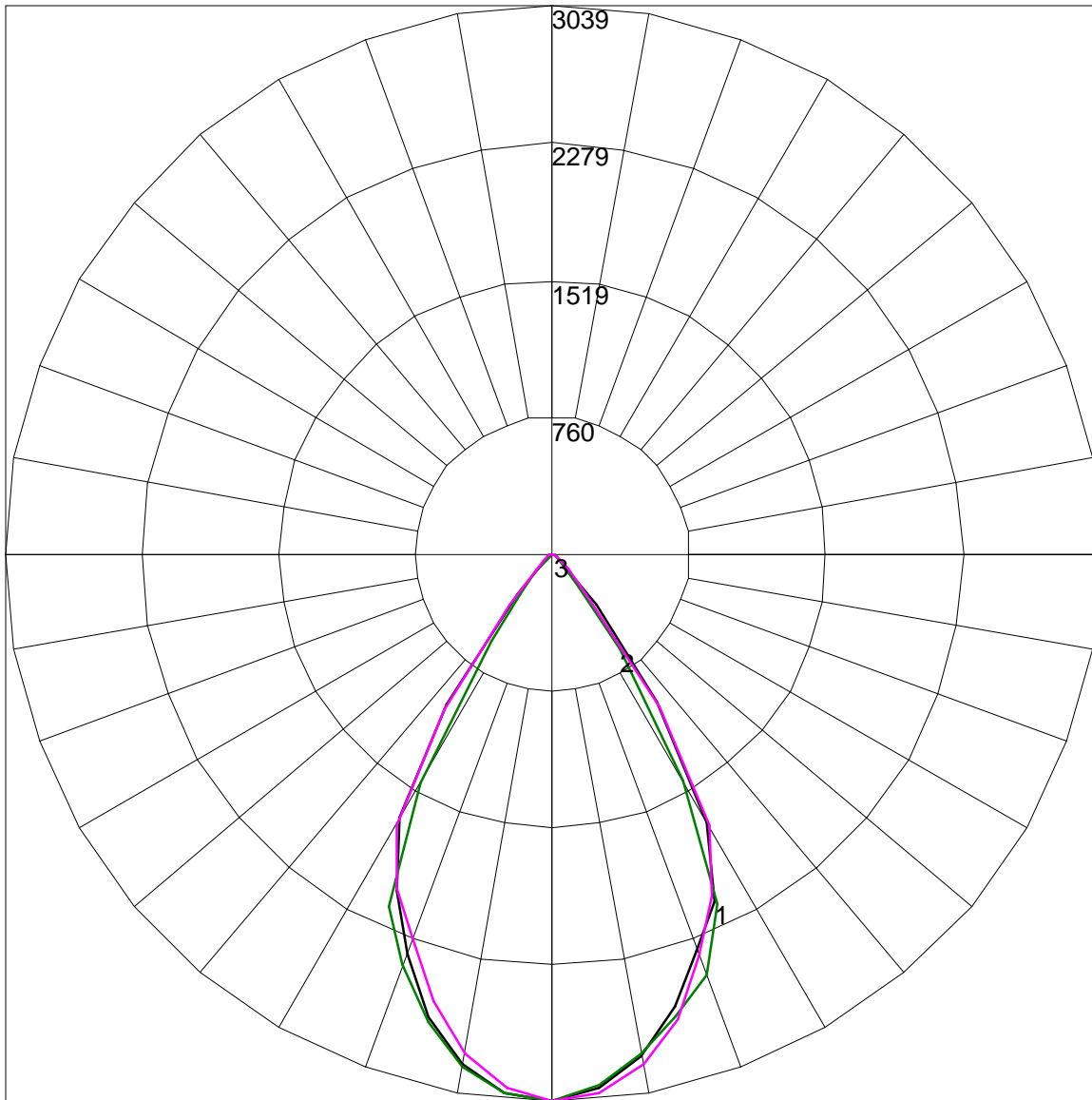
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	60	68	63	60	67	63	60	59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

POLAR GRAPH



Maximum Candela = 3038.682 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)