

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_10 ~ C08XXSQXT-30LXXK-WDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_10
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2528
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	32.6
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	5259	4021	5065
55	1059	508	826
65	280	298	213
75	261	238	323
85	923	1036	848

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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	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400
5	3774.222	3772.081	3764.613	3771.378	3812.418	3807.074	3819.679	3824.501	3835.577	3864.008
10	3416.018	3402.825	3393.109	3401.424	3472.855	3496.323	3506.045	3495.951	3534.212	3577.654
15	2868.755	2881.775	2869.134	2859.961	2931.442	2977.676	3000.457	2948.227	3016.470	3064.302
20	2289.583	2376.680	2397.971	2307.196	2312.919	2399.122	2428.186	2314.306	2381.872	2467.055
25	1854.541	1908.504	1886.437	1868.244	1826.435	1922.008	1915.364	1820.227	1834.890	1907.869
30	1400.600	1297.855	1288.830	1396.118	1427.500	1266.786	1235.497	1418.645	1395.587	1084.135
35	817.389	516.322	483.668	802.691	790.264	500.521	380.558	541.335	790.061	357.769
40	303.620	138.359	147.065	298.276	255.994	151.298	156.526	153.617	218.964	122.637
45	86.456	70.127	66.102	75.710	83.264	74.105	73.565	71.630	67.564	53.876
50	40.973	27.490	23.765	36.012	38.697	27.399	26.125	29.422	27.722	15.960
55	14.123	7.805	6.772	11.642	11.013	9.005	7.718	7.313	6.669	4.448
60	4.034	3.235	3.769	3.970	3.052	5.259	5.121	3.226	3.291	3.636
65	2.755	2.271	2.929	2.512	2.094	3.777	5.213	4.981	2.978	2.785
70	2.134	1.868	1.955	1.893	1.463	5.282	5.847	5.112	4.375	4.949
75	1.569	2.126	1.432	2.260	1.944	7.225	5.749	6.346	7.716	5.593
80	1.383	1.300	2.380	1.293	1.787	6.974	7.684	9.129	8.454	6.976
85	1.871	1.552	2.100	1.756	1.719	10.099	9.923	9.448	10.397	12.221
90	2.085	1.644	1.466	0.403	1.440	13.144	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. 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	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400	3918.400
5	3871.627	3855.855	3820.724	3755.338	3764.480	3815.825	3774.222
10	3588.591	3563.534	3487.055	3395.970	3402.971	3477.077	3416.018
15	3093.216	3037.553	2945.741	2883.336	2858.831	2921.504	2868.755
20	2480.757	2397.845	2328.480	2378.813	2364.297	2288.472	2289.583
25	1867.699	1847.608	1860.647	1916.489	1921.120	1831.634	1854.541
30	1108.698	1354.902	1462.926	1221.435	1291.897	1468.015	1400.600
35	282.821	625.700	848.310	404.710	482.736	874.962	817.389
40	119.802	172.261	284.813	136.330	147.152	262.510	303.620
45	51.753	66.783	73.402	67.161	70.618	81.850	86.456
50	14.521	29.452	31.954	23.099	26.983	42.710	40.973
55	4.417	9.305	10.554	6.028	8.240	11.213	14.123
60	3.327	4.221	4.003	2.782	2.348	3.299	4.034

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65	3.738	3.781	3.025	2.032	1.876	2.448	2.755
70	4.573	4.774	4.562	2.098	1.553	1.976	2.134
75	5.972	5.696	6.441	2.587	2.478	2.124	1.569
80	7.731	6.090	8.688	1.383	1.752	1.576	1.383
85	9.168	11.443	9.784	2.219	2.079	1.791	1.871
90	0.000	13.011	0.000	0.000	2.002	1.486	2.085
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	1172.14	N.A.	46.40
0-30	2021.5	N.A.	80.00
0-40	2434.37	N.A.	96.30
0-60	2514.12	N.A.	99.50
0-80	2521.76	N.A.	99.80
0-90	2526.98	N.A.	100.00
10-90	2174.05	N.A.	86.00
20-40	1262.23	N.A.	49.90
20-50	1331.03	N.A.	52.70
40-70	83.03	N.A.	3.30
60-80	7.64	N.A.	0.30
70-80	4.36	N.A.	0.20
80-90	5.22	N.A.	0.20
90-110	0.63	N.A.	0.00
90-120	0.63	N.A.	0.00
90-130	0.63	N.A.	0.00
90-150	0.63	N.A.	0.00
90-180	0.63	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2527.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	352.93
10-20	819.21
20-30	849.36
30-40	412.87
40-50	68.80
50-60	10.95
60-70	3.28
70-80	4.36
80-90	5.22
90-100	0.63
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

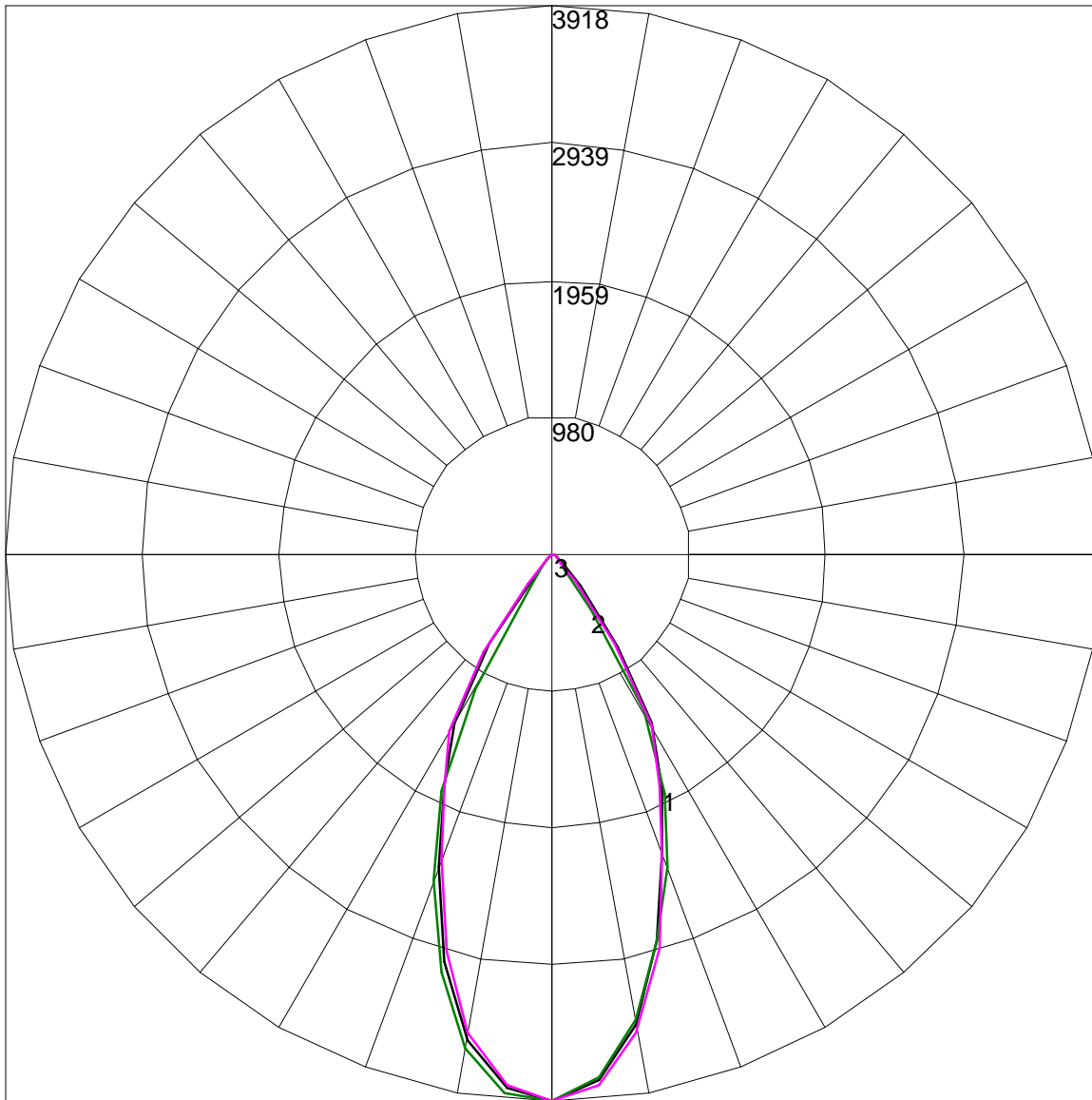
Effective Floor Cavity Reflectance 0.20

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 = 3918.4 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)