

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00618_7 ~ C0611SQXT-30LXXK-NDEX-TCY-SOMW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_7
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-30L-xxK-ND-EX-TCY-SO-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Narrow Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 22.4 Degree Beam Angle
 [LAMPCAT] N/A
 [LAMP] N/A, 19mm LES
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_7 ~ C0611SQXT-30LXXK-NDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9184	9956	8295
55	8962	9212	8476
65	9959	9915	8869
75	9627	9681	10731
85	6751	8225	7252

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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	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430
5	10444.570	10413.320	10559.470	10558.320	10743.060	10549.090	10499.670	10465.670	10440.940	10379.800
10	6825.031	6817.755	6736.586	6832.771	6929.048	6968.994	6947.301	6895.471	6865.743	6811.460
15	3850.867	3863.640	3755.423	3841.950	3864.160	3975.221	3985.184	3914.754	3906.960	3867.564
20	2256.845	2280.520	2244.854	2243.175	2229.015	2295.779	2341.579	2269.715	2244.322	2258.750
25	1348.880	1483.296	1531.603	1345.056	1273.981	1344.336	1548.167	1389.235	1212.043	1339.516
30	584.673	811.814	1053.339	615.889	411.875	605.644	1025.270	662.919	408.511	571.287
35	142.580	274.550	536.507	165.344	91.115	168.528	495.644	192.449	104.739	154.930
40	68.592	84.187	152.223	70.042	61.271	66.332	152.902	66.519	57.897	69.645
45	60.567	60.489	65.661	55.578	54.704	53.894	61.667	54.973	48.282	61.170
50	54.195	54.184	54.364	49.991	48.040	48.540	49.359	50.437	44.836	55.227
55	47.946	47.725	49.281	45.918	45.341	44.428	46.613	44.666	41.128	48.602
60	43.748	42.771	46.206	40.506	35.738	41.813	42.599	40.085	35.350	45.136
65	39.256	38.694	39.083	36.328	34.958	38.040	39.411	40.268	39.743	44.013
70	32.609	37.651	29.499	34.045	31.541	35.559	37.342	38.197	34.373	38.443
75	23.238	23.794	23.369	23.915	25.905	34.764	29.539	33.747	29.890	30.500
80	10.749	12.989	12.822	13.741	13.262	25.852	24.802	23.316	24.639	24.160
85	5.488	5.522	6.686	7.910	5.895	20.197	18.347	19.597	17.376	16.391
90	2.150	1.747	2.648	2.120	2.155	16.234	3.435	13.544	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	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430	12273.430
5	10535.000	10557.380	10659.500	10526.130	10503.490	10464.840	10444.570
10	6785.002	6911.030	6897.200	7003.324	6973.740	6908.928	6825.031
15	3816.106	3936.330	3895.113	4049.893	4037.154	3965.724	3850.867
20	2256.281	2327.938	2273.654	2389.132	2400.962	2344.010	2256.845
25	1541.269	1532.209	1365.692	1544.906	1617.097	1503.686	1348.880
30	1110.120	841.308	543.271	831.813	1161.783	779.282	584.673
35	561.572	259.481	122.631	280.498	687.719	248.924	142.580
40	145.200	90.208	69.026	95.425	258.796	86.089	68.592
45	68.656	62.976	59.672	67.338	94.599	68.347	60.567

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50	60.007	58.762	53.170	57.125	67.723	60.633	54.195
55	50.872	55.655	48.965	53.373	59.752	51.683	47.946
60	49.456	47.971	43.629	50.842	50.663	45.833	43.748
65	41.017	46.204	41.816	42.411	39.676	46.214	39.256
70	34.905	39.297	36.017	34.168	30.969	37.147	32.609
75	30.415	28.797	29.919	20.825	19.054	22.562	23.238
80	23.079	20.433	20.161	9.198	10.581	11.243	10.749
85	18.818	17.983	15.130	4.887	3.909	5.041	5.488
90	0.000	0.000	0.000	0.000	1.279	0.216	2.150
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	2045.86	N.A.	65.90
0-30	2712.75	N.A.	87.30
0-40	2928.08	N.A.	94.30
0-60	3025.49	N.A.	97.40
0-80	3093.23	N.A.	99.60
0-90	3105.23	N.A.	100.00
10-90	2210.28	N.A.	71.20
20-40	882.22	N.A.	28.40
20-50	935.78	N.A.	30.10
40-70	137.04	N.A.	4.40
60-80	67.74	N.A.	2.20
70-80	28.10	N.A.	0.90
80-90	12.00	N.A.	0.40
90-110	0.78	N.A.	0.00
90-120	0.78	N.A.	0.00
90-130	0.78	N.A.	0.00
90-150	0.78	N.A.	0.00
90-180	0.78	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3106.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	894.95
10-20	1150.92
20-30	666.89
30-40	215.33
40-50	53.56
50-60	43.85
60-70	39.64
70-80	28.10
80-90	12.00
90-100	0.78
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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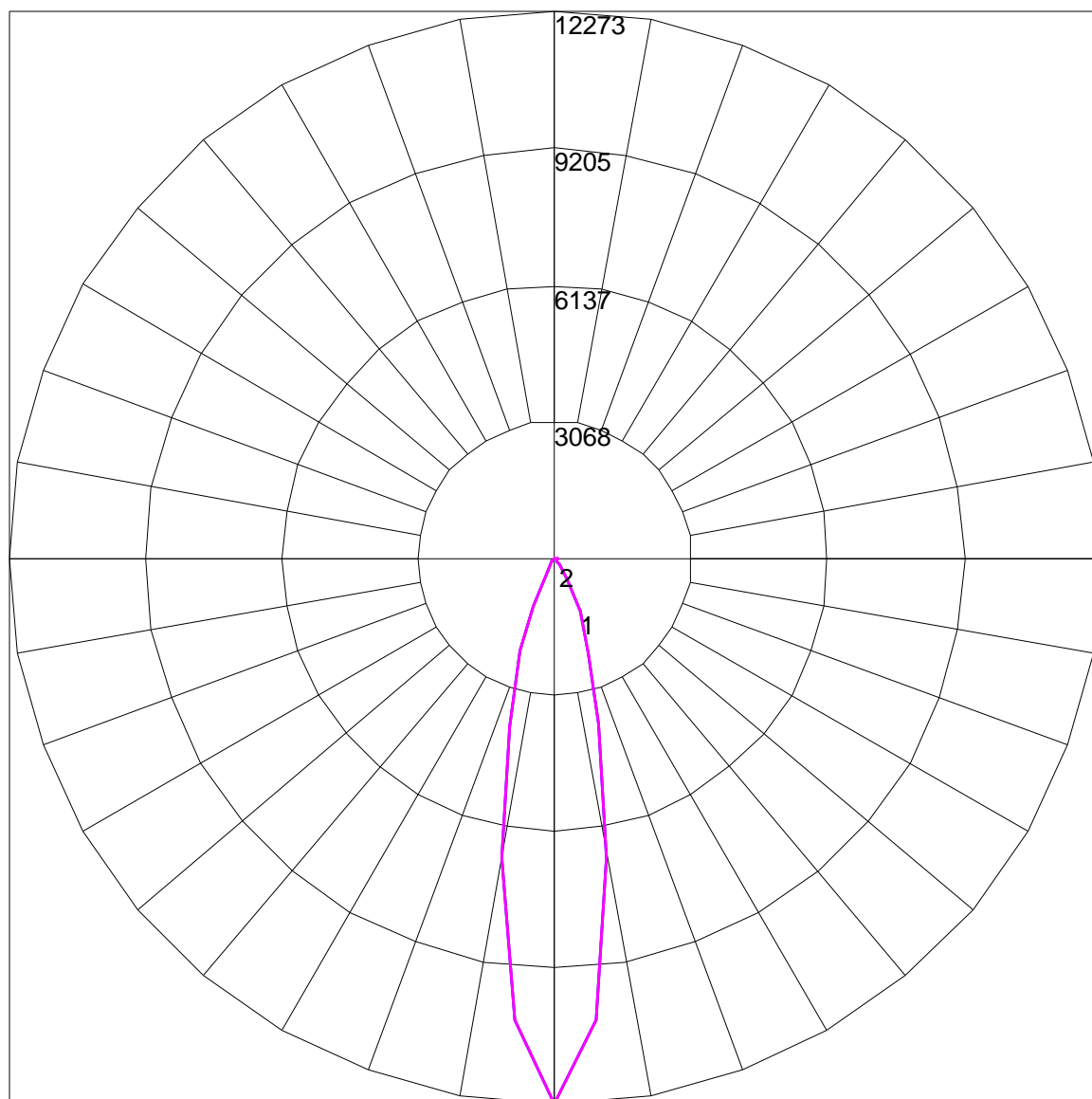
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	81	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

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POLAR GRAPH



Maximum Candela = 12273.43 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)