

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_3 ~ C0611SQXT-20LXXK-MDEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_3_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-20L-xxK-MD-EX-TCY-SO-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Medium Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 38.6 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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8525	9273	7991
55	6224	6360	5561
65	6001	6062	5175
75	5846	6612	6850
85	4346	6537	7003

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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	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707
5	3263.510	3251.449	3286.840	3285.656	3295.794	3293.165	3275.811	3282.311	3269.594	3259.710
10	2817.102	2801.708	2830.330	2847.267	2855.359	2854.564	2843.337	2845.526	2827.305	2821.997
15	2226.799	2217.612	2237.974	2259.520	2263.335	2267.805	2268.735	2257.851	2239.145	2239.660
20	1640.213	1653.379	1675.046	1665.473	1651.651	1672.446	1699.660	1673.380	1632.082	1649.879
25	1063.720	1160.150	1207.420	1092.671	1025.487	1100.917	1221.008	1151.434	1013.401	1081.565
30	499.467	651.175	817.682	559.795	416.137	556.652	814.915	641.978	424.359	529.322
35	165.984	247.607	431.175	196.426	142.230	192.196	427.257	238.120	151.717	188.889
40	83.766	94.148	142.486	88.578	81.272	87.174	160.879	92.324	80.461	87.847
45	56.224	57.914	61.155	57.683	52.701	58.152	65.719	58.813	54.739	59.274
50	42.107	43.011	43.308	42.558	38.133	42.649	42.521	43.261	38.341	44.702
55	33.298	33.960	34.022	32.580	29.751	34.162	33.731	33.707	30.377	34.829
60	27.072	26.878	28.349	26.536	23.441	29.331	28.297	26.821	26.257	28.563
65	23.654	23.449	23.894	23.337	20.399	25.967	25.821	24.974	21.394	26.425
70	19.716	21.559	20.826	20.076	19.742	24.708	24.537	24.385	22.927	24.426
75	14.111	15.593	15.962	16.247	16.535	24.244	22.194	22.478	21.092	21.336
80	8.393	8.988	9.788	10.352	11.158	18.672	18.267	16.319	16.816	15.655
85	3.533	3.733	5.314	5.846	5.693	15.906	14.869	13.072	12.301	11.347
90	1.413	1.175	1.905	1.625	2.060	11.957	9.863	9.912	0.119	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	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707	3442.707
5	3283.130	3281.915	3300.772	3294.990	3279.453	3272.209	3263.510
10	2835.190	2838.091	2857.024	2856.017	2847.520	2830.150	2817.102
15	2239.264	2238.853	2260.659	2254.789	2268.673	2244.322	2226.799
20	1667.258	1666.640	1657.909	1671.408	1699.854	1669.917	1640.213
25	1202.530	1181.347	1079.676	1178.983	1230.710	1152.271	1063.720
30	829.139	686.462	499.218	654.281	846.494	599.081	499.467
35	433.624	243.201	165.617	223.399	484.640	212.161	165.984
40	142.295	98.321	88.116	98.237	197.487	95.296	83.766
45	67.693	62.783	58.977	63.067	77.637	62.621	56.224

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50	48.339	47.389	43.827	47.564	50.144	46.866	42.107
55	37.771	37.920	34.101	36.988	41.449	38.421	33.298
60	31.708	31.552	27.517	29.257	34.038	29.803	27.072
65	26.645	28.294	25.339	25.936	26.859	25.054	23.654
70	24.517	25.650	23.016	20.634	21.141	20.792	19.716
75	20.173	20.202	19.010	15.553	14.693	15.841	14.111
80	15.444	14.739	14.073	7.303	8.274	8.508	8.393
85	10.826	11.884	9.870	3.238	3.920	3.369	3.533
90	0.000	0.000	0.000	0.000	0.000	0.000	1.413
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	923.59	N.A.	52.20
0-30	1439.99	N.A.	81.40
0-40	1631.55	N.A.	92.20
0-60	1715.71	N.A.	97.00
0-80	1759.64	N.A.	99.50
0-90	1768.37	N.A.	100.00
10-90	1469.15	N.A.	83.00
20-40	707.96	N.A.	40.00
20-50	760.35	N.A.	43.00
40-70	109.09	N.A.	6.20
60-80	43.93	N.A.	2.50
70-80	19.01	N.A.	1.10
80-90	8.72	N.A.	0.50
90-110	0.69	N.A.	0.00
90-120	0.69	N.A.	0.00
90-130	0.69	N.A.	0.00
90-150	0.69	N.A.	0.00
90-180	0.69	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1769.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	299.22
10-20	624.37
20-30	516.40
30-40	191.55
40-50	52.39
50-60	31.77
60-70	24.92
70-80	19.01
80-90	8.72
90-100	0.69
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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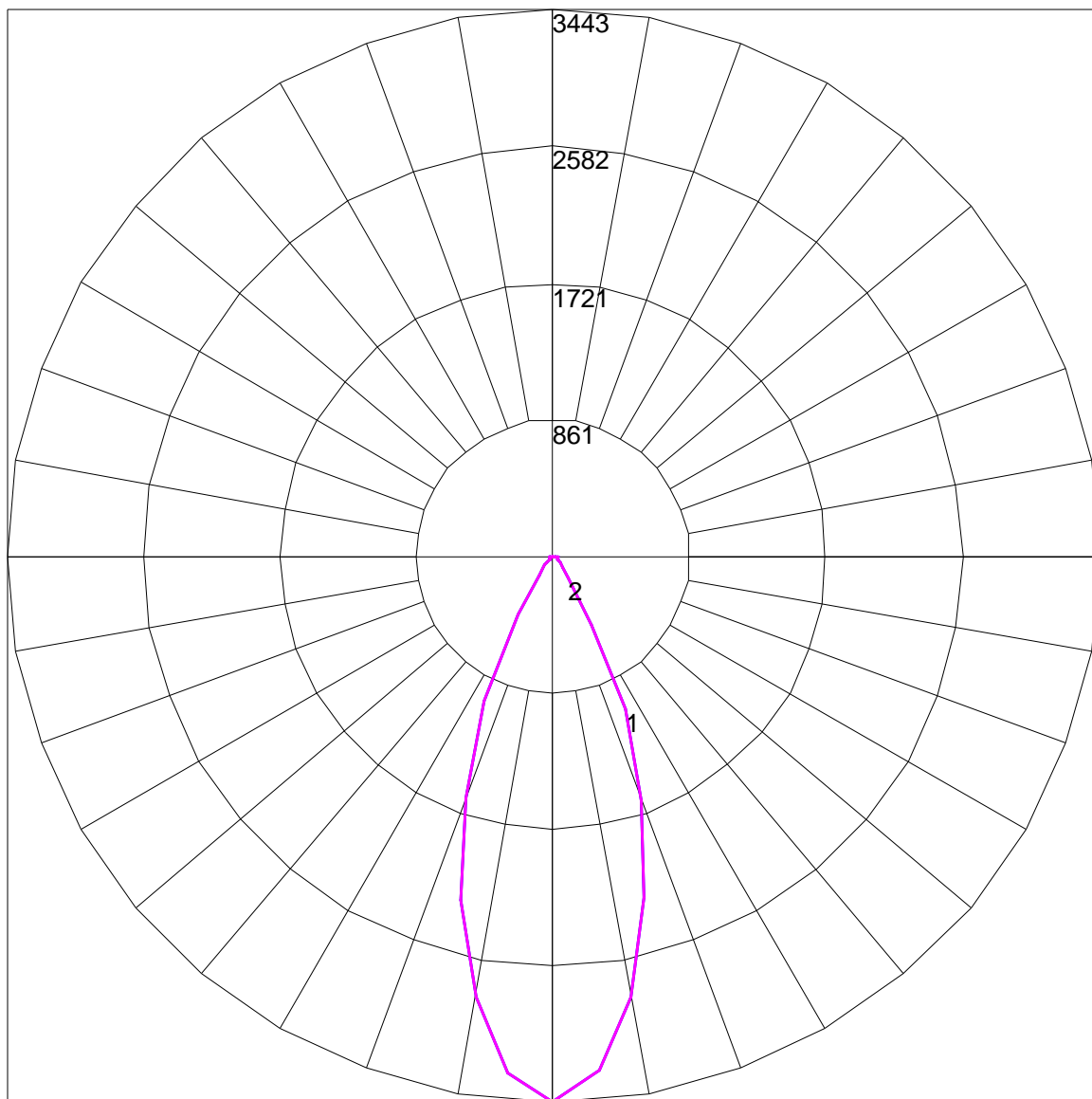
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	99	98	97	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	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	99	92	86	83	97	91	86	82	88	84	81	86	83	80	85	82	79	78
5	94	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	73	80	75	72	79	75	72	77	74	71	70
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57

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POLAR GRAPH



Maximum Candela = 3442.707 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)