

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00633\_4 ~ C06XXSQUDXT-20LWDGL-20LWD-XXKEX-TCY-SOMW (UP\_DOWN).IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00633\_4  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/13/2017  
 [UPDATE] 1/30/2018  
 [LUMCAT] C06xxSQUDXT-20L-WD-GL-20L-WD-xxK-EX-TCY-SO-MW (Up/Down)  
 [LUMINAIRE] Nom. 6" Square x 18" H Direct/Indirect Cylinder  
 [OTHER] Cylinder also available as 24" H variant  
 [OTHER] Uplight: Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 40 Degree Beam Angle  
 [OTHER] Downlight: Wide Beam, Regressed Solite lens  
 [OTHER] Downlight: 43.8 Degree Beam Angle  
 [OTHER] Trim: Same Color as Cylinder, Matte White  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES indirect  
 [OTHER] N/A, 19mm LES direct  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] See Catalog cut sheet for different source lumen multipliers  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2959
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	43.4
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.35 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9068	9633	8644
55	5098	5674	4929
65	4789	4895	4622
75	5290	4601	5724
85	3934	3245	4436

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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>
0.0	2820.307	2820.307	2820.307	2820.307	2820.307
2.5	2775.741	2773.435	2774.265	2782.444	2776.564
5.0	2731.174	2726.562	2728.222	2744.580	2732.821
7.5	2598.996	2592.862	2598.703	2613.655	2603.498
10.0	2466.817	2459.162	2469.184	2482.730	2474.174
12.5	2264.148	2256.388	2271.058	2282.770	2274.596
15.0	2061.478	2053.614	2072.932	2082.809	2075.017
17.5	1830.616	1827.010	1849.677	1848.365	1839.377
20.0	1599.753	1600.406	1626.421	1613.920	1603.737
22.5	1352.148	1387.047	1429.007	1386.177	1344.578
25.0	1104.543	1173.687	1231.593	1158.433	1085.418
27.5	823.653	941.249	1056.173	893.983	810.248
30.0	542.762	708.810	880.752	629.533	535.077
32.5	381.453	495.423	688.257	428.546	367.862
35.0	220.144	282.035	495.761	227.559	200.646
37.5	167.607	198.467	343.494	169.075	153.770
40.0	115.070	114.899	191.226	110.591	106.893
42.5	94.057	94.364	134.408	91.893	88.259
45.0	73.043	73.828	77.589	73.195	69.625
47.5	61.841	62.492	63.982	62.315	58.634
50.0	50.639	51.156	50.375	51.434	47.642
52.5	41.973	43.905	43.723	43.793	39.923
55.0	33.307	36.654	37.071	36.151	32.203
57.5	28.478	32.162	33.041	31.776	28.257
60.0	23.649	27.670	29.010	27.400	24.311
62.5	23.353	25.489	26.287	25.801	23.282
65.0	23.056	23.308	23.564	24.202	22.253
67.5	21.631	21.988	21.117	22.862	20.811
70.0	20.205	20.668	18.669	21.521	19.368
72.5	17.901	17.911	16.117	18.917	18.122
75.0	15.597	15.154	13.565	16.313	16.876
77.5	12.012	12.103	10.982	13.211	14.265
80.0	8.426	9.051	8.398	10.108	11.654
82.5	6.166	6.168	5.810	7.351	8.029
85.0	3.906	3.285	3.222	4.593	4.404
87.5	2.632	2.380	2.403	3.143	3.128
90.0	1.357	1.475	1.583	1.692	1.852
92.5	7.944	9.052	8.554	7.335	6.826
95.0	6.512	8.171	8.004	6.827	7.371
97.5	5.215	7.281	6.389	5.814	7.898
100.0	5.087	6.213	5.942	4.982	5.046
102.5	4.554	4.857	6.037	4.700	5.061
105.0	4.205	4.740	5.506	4.351	5.073
107.5	3.962	4.517	4.082	3.344	4.796
110.0	3.752	4.180	2.924	3.300	3.980
112.5	3.591	3.798	3.235	3.523	3.395
115.0	3.678	3.398	3.269	3.079	2.936
117.5	3.937	3.542	2.891	2.828	2.917
120.0	4.812	3.797	3.270	3.715	2.975
122.5	5.887	4.966	4.525	4.678	4.009
125.0	7.550	6.277	6.558	5.983	5.127

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<b>127.5</b>	10.171	10.424	9.369	8.204	7.707
<b>130.0</b>	15.228	14.907	14.234	13.739	10.351
<b>132.5</b>	21.903	22.059	20.928	20.066	18.009
<b>135.0</b>	32.050	29.411	30.960	28.782	25.862
<b>137.5</b>	49.995	45.293	43.565	40.646	39.241
<b>140.0</b>	82.173	61.474	72.305	60.417	54.140
<b>142.5</b>	173.991	163.392	111.933	109.558	95.466
<b>145.0</b>	361.974	269.162	252.626	222.961	150.832
<b>147.5</b>	532.697	482.014	452.796	373.581	353.951
<b>150.0</b>	679.465	688.447	626.641	593.423	553.911
<b>152.5</b>	809.098	799.971	787.255	777.521	731.305
<b>155.0</b>	917.886	914.093	921.858	904.674	903.779
<b>157.5</b>	1050.594	1052.772	1045.200	1045.960	1049.465
<b>160.0</b>	1208.848	1196.424	1202.438	1207.213	1202.655
<b>162.5</b>	1376.105	1372.866	1372.193	1377.239	1388.356
<b>165.0</b>	1551.688	1545.573	1540.003	1557.970	1569.056
<b>167.5</b>	1710.065	1699.259	1707.219	1719.657	1732.386
<b>170.0</b>	1854.471	1843.533	1836.418	1860.943	1880.109
<b>172.5</b>	1965.091	1949.326	1955.819	1968.065	1981.588
<b>175.0</b>	2051.673	2040.766	2027.271	2043.037	2064.445
<b>177.5</b>	2099.889	2084.818	2088.976	2086.203	2101.334
<b>180.0</b>	2119.000	2119.000	2119.000	2119.000	2119.000

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Zone	Lumens	%Lamp	%Fixt
0-20	821.59	N.A.	27.80
0-30	1344.82	N.A.	45.50
0-40	1562.45	N.A.	52.80
0-60	1658.75	N.A.	56.10
0-80	1697.92	N.A.	57.40
0-90	1702.99	N.A.	57.60
10-90	1451.5	N.A.	49.10
20-40	740.86	N.A.	25.00
20-50	803.97	N.A.	27.20
40-70	119.59	N.A.	4.00
60-80	39.17	N.A.	1.30
70-80	15.88	N.A.	0.50
80-90	5.07	N.A.	0.20
90-110	11.91	N.A.	0.40
90-120	15.28	N.A.	0.50
90-130	21.72	N.A.	0.70
90-150	223.08	N.A.	7.50
90-180	1255.74	N.A.	42.40
110-180	1243.83	N.A.	42.00
0-180	2958.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	251.48
10-20	570.10
20-30	523.23
30-40	217.63
40-50	63.11
50-60	33.19
60-70	23.29
70-80	15.88
80-90	5.07
90-100	7.00
100-110	4.91
110-120	3.37
120-130	6.44
130-140	25.34
140-150	176.02
150-160	416.26
160-170	427.50
170-180	188.90

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

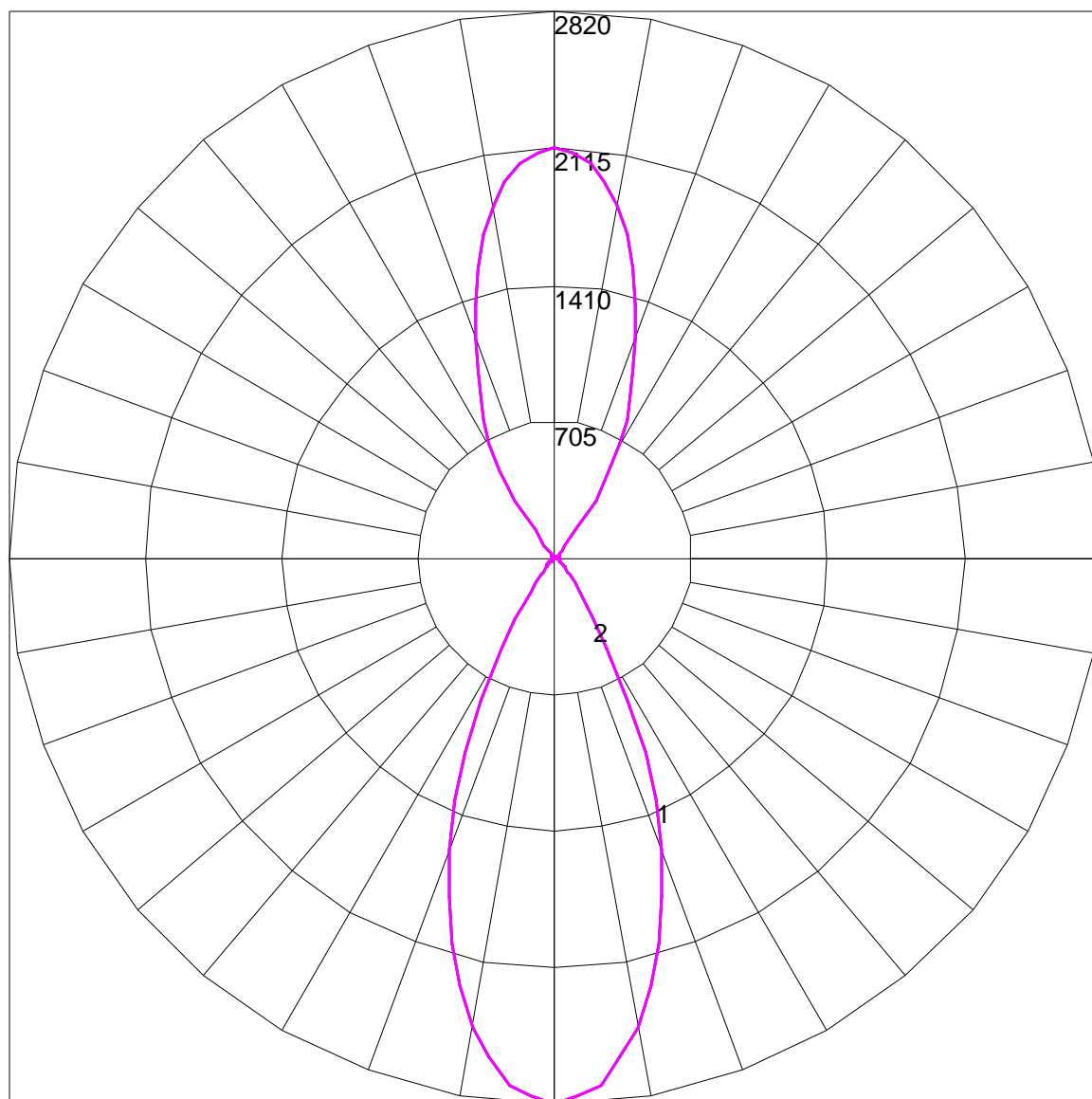
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	102	99	96	93	95	92	90	88	81	79	77	70	69	68	60	59	58	54
2	96	90	85	81	89	85	81	77	75	72	69	65	63	62	57	55	54	50
3	90	82	77	72	84	78	73	69	69	66	63	61	59	56	54	52	51	47
4	84	76	70	65	79	72	67	63	64	60	57	57	55	52	51	49	47	44
5	79	70	64	59	75	67	61	57	60	56	53	54	51	48	48	46	44	42
6	75	65	59	54	70	62	57	52	56	52	49	51	48	45	46	44	42	39
7	71	61	55	50	67	58	53	49	53	49	45	48	45	42	44	41	39	37
8	67	57	51	46	63	55	49	45	50	46	42	46	42	40	42	39	37	35
9	63	54	47	43	60	51	46	42	47	43	40	43	40	38	40	37	35	34
10	60	50	44	41	57	48	43	40	45	40	38	41	38	36	38	35	34	32

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## POLAR GRAPH



Maximum Candela = 2820.307 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)