

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_4 ~ C0205XT-13LXXK-WDEX-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00640\_4  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-13L-xxK-WD-EX-NL-xx-MW  
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Medium Beam  
[OTHER] Matte White finish  
[OTHER] No Lens  
[OTHER] 48.1 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	951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.20 ft (Diameter)
Luminous Width (90-270)	0.20 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_4 ~ C0205XT-13LXXK-WDEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10360	9438	8799
55	4849	6798	6205
65	4009	5182	4920
75	5206	4612	6793
85	6802	4725	5801

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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	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813
5	1384.730	1379.203	1374.671	1366.210	1367.093	1357.372	1357.344	1363.031	1379.115	1384.994
10	1288.616	1282.572	1280.836	1268.873	1267.483	1249.770	1244.937	1260.264	1284.762	1296.016
15	1087.715	1097.271	1099.302	1091.170	1092.232	1077.304	1072.053	1082.060	1104.339	1114.072
20	874.810	886.181	885.329	881.260	871.167	865.405	857.456	865.340	875.758	888.677
25	663.885	669.174	671.954	665.634	663.836	649.537	643.482	647.959	662.010	669.153
30	441.755	455.677	458.093	451.497	446.696	430.100	427.374	432.403	446.174	456.590
35	250.606	263.984	261.464	255.086	247.975	238.735	236.180	240.744	257.252	267.151
40	124.234	123.413	120.082	115.591	113.607	109.302	105.554	114.788	117.959	125.062
45	21.401	26.614	19.497	27.891	18.177	29.616	32.682	30.251	34.466	38.947
50	10.495	11.202	11.814	10.579	10.268	10.872	10.761	11.017	10.366	11.433
55	8.125	8.211	11.391	9.031	10.398	11.125	9.823	9.640	9.178	8.872
60	7.115	7.542	8.111	7.613	9.392	7.859	7.778	8.637	7.970	7.570
65	4.950	5.092	6.398	6.047	6.074	5.629	6.258	6.404	5.820	5.588
70	5.162	4.580	4.454	5.161	5.835	5.474	6.030	5.435	5.986	5.383
75	3.936	3.415	3.487	4.344	5.136	4.540	4.313	4.533	4.746	4.005
80	1.901	1.887	2.036	1.589	1.991	1.856	1.793	1.915	1.609	2.293
85	1.732	1.542	1.203	1.261	1.477	1.701	1.458	1.764	1.663	1.238
90	1.401	1.449	1.610	1.165	1.620	0.000	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. 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	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813	1405.813
5	1388.910	1388.950	1389.484	1378.775	1378.331	1375.828	1384.730
10	1301.571	1294.817	1293.716	1270.766	1266.041	1266.907	1288.616
15	1116.547	1105.188	1095.936	1076.135	1067.936	1075.020	1087.715
20	888.612	882.060	870.687	862.332	858.087	860.307	874.810
25	670.036	664.882	659.670	647.084	642.203	646.600	663.885
30	454.689	452.020	439.496	424.582	418.308	427.071	441.755
35	269.993	267.499	256.301	243.695	232.012	244.137	250.606
40	126.324	129.316	124.516	124.415	122.419	121.178	124.234
45	38.661	38.737	38.264	37.138	25.938	36.556	21.401

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CANDELA TABULATION - (Cont.)

50	10.699	12.225	12.325	11.521	10.740	11.020	10.495
55	9.323	10.470	10.148	10.217	9.745	7.964	8.125
60	7.089	7.160	7.979	7.249	8.544	6.769	7.115
65	5.289	5.101	4.713	4.995	4.493	5.544	4.950
70	4.897	4.953	4.345	3.862	4.593	5.092	5.162
75	3.968	3.256	4.154	2.678	3.981	3.333	3.936
80	1.427	2.284	2.516	2.419	1.902	1.835	1.901
85	1.550	2.182	1.597	1.540	1.663	1.388	1.732
90	0.000	0.000	0.000	1.279	1.522	1.149	1.401
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	430.41	N.A.	45.30
0-30	730.29	N.A.	76.80
0-40	894.45	N.A.	94.10
0-60	939.38	N.A.	98.80
0-80	949.25	N.A.	99.80
0-90	950.83	N.A.	100.00
10-90	822.70	N.A.	86.50
20-40	464.04	N.A.	48.80
20-50	500.45	N.A.	52.60
40-70	50.84	N.A.	5.30
60-80	9.88	N.A.	1.00
70-80	3.96	N.A.	0.40
80-90	1.57	N.A.	0.20
90-110	0.19	N.A.	0.00
90-120	0.19	N.A.	0.00
90-130	0.19	N.A.	0.00
90-150	0.19	N.A.	0.00
90-180	0.19	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	951.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.12
10-20	302.29
20-30	299.87
30-40	164.17
40-50	36.41
50-60	8.51
60-70	5.92
70-80	3.96
80-90	1.57
90-100	0.19
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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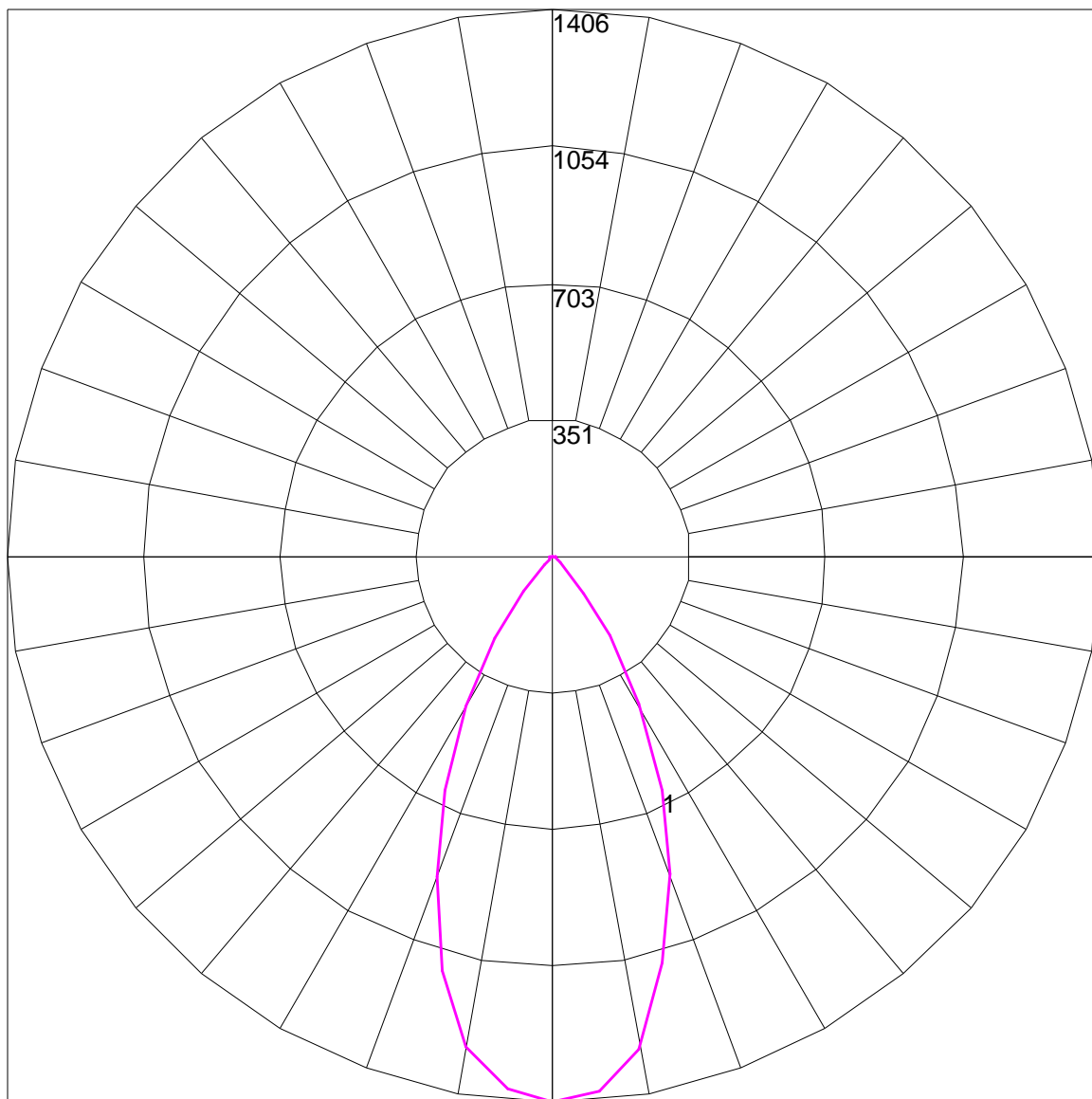
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64
8	82	73	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55

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POLAR GRAPH



Maximum Candela = 1405.813 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)