

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00640\_3  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-13L-xxK-WD-EX-GL-xx-MW  
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Wide Beam  
[OTHER] Matte White finish  
[OTHER] Clear Glass Lens  
[OTHER] 48.6 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14030	15505	20752
55	5779	5630	6783
65	3313	4000	3934
75	4272	4055	3493
85	5094	6488	5777

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES**

**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>
<b>0</b>	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108
<b>5</b>	1281.991	1286.225	1295.504	1286.763	1286.316	1276.424	1271.253	1274.719	1284.138	1285.966
<b>10</b>	1191.717	1192.779	1206.491	1194.481	1190.472	1176.443	1167.457	1178.319	1193.047	1195.245
<b>15</b>	1012.578	1019.698	1020.113	1015.950	1018.056	1006.461	1003.112	1011.119	1030.754	1031.022
<b>20</b>	815.376	827.621	828.324	819.628	810.889	809.454	803.736	812.754	825.041	831.516
<b>25</b>	629.799	630.328	629.755	628.439	622.516	613.735	610.170	617.164	628.352	630.398
<b>30</b>	437.304	436.647	434.994	431.351	424.956	412.162	411.402	418.849	436.657	439.267
<b>35</b>	258.570	262.398	257.824	255.200	250.917	240.200	236.633	245.449	262.533	265.553
<b>40</b>	131.408	131.538	127.096	130.691	126.072	124.301	116.986	126.057	129.717	132.914
<b>45</b>	28.983	36.259	32.030	30.080	42.868	39.246	43.493	37.735	44.557	42.186
<b>50</b>	10.859	12.782	12.201	13.685	15.237	15.247	12.712	11.633	12.370	13.042
<b>55</b>	9.684	9.000	9.434	11.947	11.365	10.332	8.699	9.392	9.079	9.791
<b>60</b>	6.727	6.239	6.592	6.035	7.378	6.217	6.160	6.094	6.050	7.227
<b>65</b>	4.090	3.845	4.938	5.487	4.857	3.992	4.488	4.339	4.889	4.354
<b>70</b>	4.373	3.921	4.323	4.169	4.265	4.334	4.911	4.479	4.990	4.808
<b>75</b>	3.230	2.712	3.066	2.507	2.641	2.778	3.081	3.986	3.489	3.199
<b>80</b>	2.233	1.604	1.058	1.786	1.362	1.823	1.340	1.437	1.526	1.319
<b>85</b>	1.297	1.228	1.652	1.070	1.471	1.664	1.229	1.910	1.603	1.461
<b>90</b>	1.466	1.173	1.407	1.402	0.860	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108	1311.108
<b>5</b>	1289.091	1283.134	1284.201	1273.320	1276.413	1274.655	1281.991
<b>10</b>	1199.749	1191.247	1195.109	1174.490	1172.018	1174.003	1191.717
<b>15</b>	1040.948	1028.236	1026.025	1006.735	1001.018	1003.785	1012.578
<b>20</b>	826.572	823.985	813.768	808.493	803.305	808.800	815.376
<b>25</b>	630.299	627.473	624.372	614.833	613.001	617.711	629.799
<b>30</b>	439.121	436.052	427.776	419.869	415.061	425.553	437.304
<b>35</b>	264.622	262.548	252.924	245.501	241.341	254.171	258.570
<b>40</b>	125.683	130.137	127.642	127.275	129.049	134.698	131.408
<b>45</b>	42.426	47.963	43.368	43.532	37.203	44.918	28.983

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES**

**CANDELA TABULATION - (Cont.)**

<b>50</b>	13.353	14.093	14.941	15.645	14.785	15.569	10.859
<b>55</b>	12.039	10.207	12.500	9.800	10.231	10.908	9.684
<b>60</b>	8.089	8.469	8.134	7.056	7.633	6.732	6.727
<b>65</b>	5.315	6.023	6.353	5.484	4.473	4.426	4.090
<b>70</b>	3.779	4.690	4.254	5.893	4.191	3.661	4.373
<b>75</b>	3.508	3.373	3.702	4.004	3.269	2.738	3.230
<b>80</b>	2.054	2.412	2.545	1.811	1.784	1.656	2.233
<b>85</b>	1.651	1.799	1.508	1.347	1.532	1.646	1.297
<b>90</b>	0.000	0.000	0.000	1.120	0.980	0.928	1.466
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	401.23	N.A.	44.10
0-30	685.24	N.A.	75.30
0-40	849.28	N.A.	93.30
0-60	900.36	N.A.	98.90
0-80	908.89	N.A.	99.80
0-90	910.34	N.A.	100.00
10-90	791.02	N.A.	86.90
20-40	448.05	N.A.	49.20
20-50	489.96	N.A.	53.80
40-70	56.29	N.A.	6.20
60-80	8.53	N.A.	0.90
70-80	3.32	N.A.	0.40
80-90	1.45	N.A.	0.20
90-110	0.16	N.A.	0.00
90-120	0.16	N.A.	0.00
90-130	0.16	N.A.	0.00
90-150	0.16	N.A.	0.00
90-180	0.16	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	910.50	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	119.32
10-20	281.91
20-30	284.01
30-40	164.04
40-50	41.91
50-60	9.18
60-70	5.21
70-80	3.32
80-90	1.45
90-100	0.16
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES

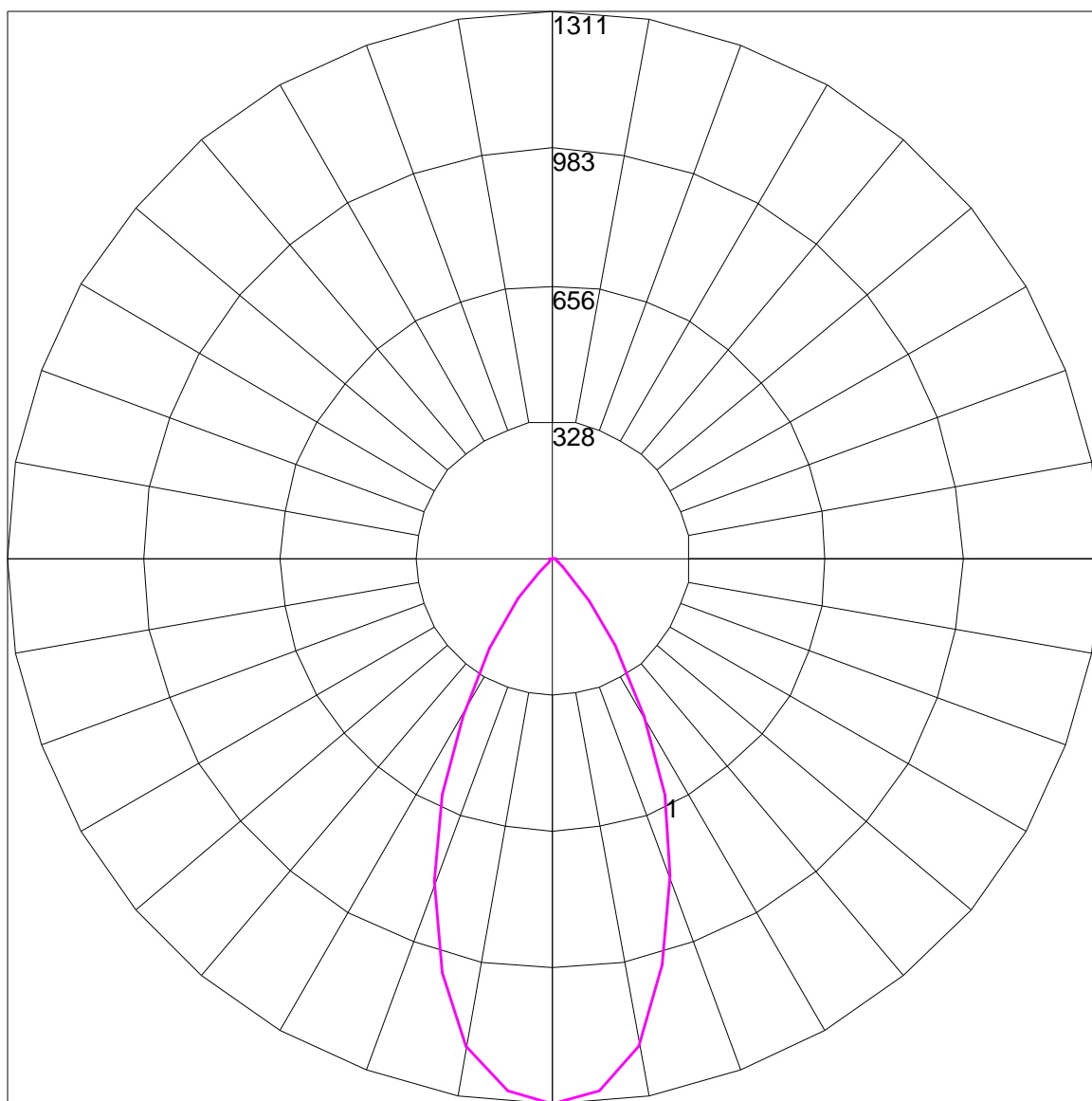
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	96	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	68
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	59	56	73	64	59	55	64	59	55	63	58	55	62	58	55	54

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-13LXXK-WDEX-GLXXMW.IES

POLAR GRAPH



Maximum Candela = 1311.108 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)