

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_4 ~ C0205XT-7LXXK-WDEX-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00640\_4\_M-7L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-7L-xxK-WD-EX-NL-xx-MW  
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Wide 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, scaled from 13L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	6.2
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-7LXXK-WDEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5739	5229	4875
55	2686	3766	3438
65	2221	2871	2726
75	2885	2555	3763
85	3770	2616	3213

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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>
<b>0</b>	778.820	778.820	778.820	778.820	778.820	778.820	778.820	778.820	778.820	778.820
<b>5</b>	767.140	764.078	761.568	756.880	757.370	751.984	751.969	755.119	764.030	767.287
<b>10</b>	713.893	710.545	709.583	702.956	702.186	692.373	689.695	698.186	711.758	717.993
<b>15</b>	602.594	607.888	609.013	604.508	605.097	596.826	593.917	599.461	611.804	617.196
<b>20</b>	484.645	490.944	490.472	488.218	482.627	479.434	475.031	479.398	485.170	492.327
<b>25</b>	367.792	370.722	372.263	368.761	367.765	359.844	356.489	358.969	366.754	370.711
<b>30</b>	244.732	252.445	253.784	250.129	247.470	238.275	236.765	239.551	247.180	252.951
<b>35</b>	138.836	146.247	144.851	141.318	137.378	132.259	130.844	133.372	142.518	148.002
<b>40</b>	68.826	68.371	66.525	64.037	62.938	60.553	58.477	63.593	65.349	69.284
<b>45</b>	11.856	14.744	10.801	15.452	10.070	16.407	18.106	16.759	19.094	21.577
<b>50</b>	5.814	6.206	6.545	5.861	5.688	6.023	5.962	6.103	5.743	6.334
<b>55</b>	4.501	4.549	6.311	5.003	5.760	6.163	5.442	5.341	5.085	4.915
<b>60</b>	3.942	4.178	4.493	4.218	5.203	4.354	4.309	4.785	4.415	4.194
<b>65</b>	2.742	2.821	3.544	3.350	3.365	3.118	3.467	3.548	3.224	3.096
<b>70</b>	2.860	2.537	2.468	2.859	3.233	3.033	3.341	3.011	3.316	2.982
<b>75</b>	2.181	1.892	1.932	2.407	2.845	2.515	2.389	2.511	2.629	2.219
<b>80</b>	1.053	1.045	1.128	0.880	1.103	1.028	0.993	1.061	0.891	1.270
<b>85</b>	0.960	0.854	0.666	0.699	0.818	0.942	0.808	0.977	0.921	0.686
<b>90</b>	0.776	0.803	0.892	0.645	0.897	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. 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>
<b>0</b>	778.820	778.820	778.820	778.820	778.820	778.820	778.820
<b>5</b>	769.456	769.478	769.774	763.841	763.595	762.209	767.140
<b>10</b>	721.070	717.329	716.719	704.004	701.387	701.867	713.893
<b>15</b>	618.567	612.274	607.149	596.179	591.637	595.561	602.594
<b>20</b>	492.291	488.661	482.361	477.732	475.380	476.610	484.645
<b>25</b>	371.200	368.345	365.457	358.485	355.780	358.216	367.792
<b>30</b>	251.898	250.419	243.481	235.218	231.743	236.597	244.732
<b>35</b>	149.576	148.194	141.991	135.007	128.535	135.252	138.836
<b>40</b>	69.983	71.641	68.982	68.926	67.820	67.133	68.826
<b>45</b>	21.418	21.460	21.198	20.574	14.370	20.252	11.856

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CANDELA TABULATION - (Cont.)

50	5.927	6.773	6.828	6.383	5.950	6.105	5.814
55	5.165	5.800	5.622	5.660	5.399	4.412	4.501
60	3.927	3.967	4.420	4.016	4.733	3.750	3.942
65	2.930	2.826	2.611	2.767	2.489	3.071	2.742
70	2.713	2.744	2.407	2.140	2.545	2.821	2.860
75	2.198	1.804	2.301	1.484	2.205	1.846	2.181
80	0.791	1.265	1.394	1.340	1.054	1.017	1.053
85	0.859	1.209	0.885	0.853	0.921	0.769	0.960
90	0.000	0.000	0.000	0.709	0.843	0.637	0.776
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	238.45	N.A.	45.30
0-30	404.58	N.A.	76.80
0-40	495.53	N.A.	94.10
0-60	520.41	N.A.	98.80
0-80	525.89	N.A.	99.80
0-90	526.76	N.A.	100.00
10-90	455.78	N.A.	86.50
20-40	257.08	N.A.	48.80
20-50	277.25	N.A.	52.60
40-70	28.17	N.A.	5.30
60-80	5.47	N.A.	1.00
70-80	2.19	N.A.	0.40
80-90	0.87	N.A.	0.20
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	526.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.98
10-20	167.47
20-30	166.13
30-40	90.95
40-50	20.17
50-60	4.72
60-70	3.28
70-80	2.19
80-90	0.87
90-100	0.11
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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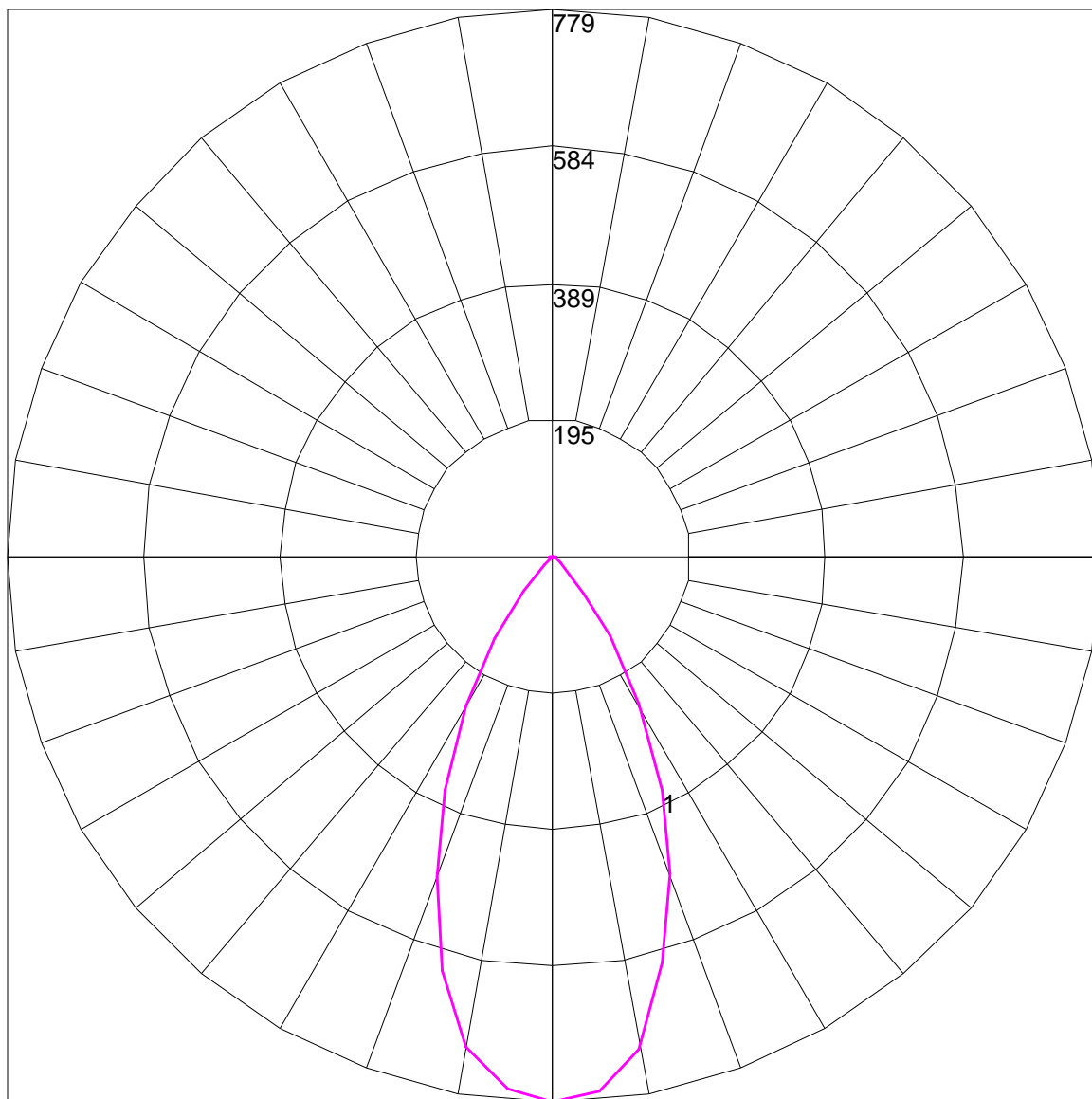
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	69	68
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64
8	82	72	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 = 778.82 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)