

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-7LXXK-WDEX-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00640\_3\_M-7L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-7L-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, scaled from 13L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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\_3 ~ C0205XT-7LXXK-WDEX-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7773	8590	11497
55	3202	3119	3757
65	1835	2216	2180
75	2366	2247	1935
85	2824	3594	3201

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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	726.354	726.354	726.354	726.354	726.354	726.354	726.354	726.354	726.354	726.354
5	710.223	712.569	717.709	712.867	712.619	707.139	704.274	706.194	711.412	712.425
10	660.211	660.800	668.396	661.742	659.522	651.749	646.771	652.789	660.948	662.166
15	560.968	564.913	565.143	562.836	564.003	557.579	555.724	560.160	571.038	571.186
20	451.718	458.502	458.892	454.074	449.233	448.438	445.270	450.266	457.073	460.660
25	348.909	349.202	348.884	348.155	344.874	340.009	338.034	341.909	348.107	349.241
30	242.266	241.902	240.987	238.968	235.426	228.338	227.917	232.042	241.908	243.354
35	143.248	145.368	142.835	141.381	139.008	133.071	131.095	135.979	145.443	147.116
40	72.800	72.872	70.411	72.403	69.844	68.863	64.810	69.836	71.863	73.634
45	16.057	20.087	17.745	16.664	23.749	21.742	24.095	20.905	24.685	23.371
50	6.016	7.081	6.759	7.581	8.441	8.447	7.042	6.445	6.853	7.225
55	5.365	4.986	5.226	6.619	6.296	5.724	4.819	5.203	5.030	5.424
60	3.727	3.456	3.652	3.343	4.087	3.444	3.413	3.376	3.352	4.004
65	2.266	2.130	2.736	3.040	2.691	2.212	2.486	2.404	2.709	2.412
70	2.423	2.172	2.395	2.310	2.363	2.401	2.721	2.481	2.764	2.664
75	1.789	1.502	1.699	1.389	1.463	1.539	1.707	2.208	1.933	1.772
80	1.237	0.889	0.586	0.989	0.755	1.010	0.742	0.796	0.845	0.731
85	0.719	0.680	0.915	0.593	0.815	0.922	0.681	1.058	0.888	0.809
90	0.812	0.650	0.779	0.777	0.476	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. 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	726.354	726.354	726.354	726.354	726.354	726.354	726.354
5	714.156	710.856	711.447	705.419	707.133	706.159	710.223
10	664.661	659.951	662.090	650.667	649.298	650.398	660.211
15	576.685	569.643	568.418	557.731	554.564	556.097	560.968
20	457.921	456.488	450.827	447.905	445.031	448.075	451.718
25	349.186	347.620	345.902	340.617	339.603	342.212	348.909
30	243.273	241.573	236.988	232.607	229.944	235.756	242.266
35	146.601	145.452	140.120	136.008	133.703	140.811	143.248
40	69.628	72.096	70.714	70.510	71.493	74.623	72.800
45	23.504	26.572	24.026	24.117	20.610	24.885	16.057

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CANDELA TABULATION - (Cont.)

50	7.398	7.808	8.277	8.667	8.191	8.625	6.016
55	6.670	5.655	6.925	5.429	5.668	6.043	5.365
60	4.481	4.692	4.506	3.909	4.229	3.730	3.727
65	2.945	3.337	3.520	3.038	2.478	2.452	2.266
70	2.094	2.598	2.357	3.265	2.322	2.028	2.423
75	1.943	1.869	2.051	2.218	1.811	1.517	1.789
80	1.138	1.336	1.410	1.003	0.988	0.917	1.237
85	0.915	0.997	0.835	0.746	0.849	0.912	0.719
90	0.000	0.000	0.000	0.620	0.543	0.514	0.812
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	222.28	N.A.	44.10
0-30	379.62	N.A.	75.30
0-40	470.50	N.A.	93.30
0-60	498.80	N.A.	98.90
0-80	503.53	N.A.	99.80
0-90	504.33	N.A.	100.00
10-90	438.23	N.A.	86.90
20-40	248.22	N.A.	49.20
20-50	271.44	N.A.	53.80
40-70	31.18	N.A.	6.20
60-80	4.72	N.A.	0.90
70-80	1.84	N.A.	0.40
80-90	0.80	N.A.	0.20
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	504.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.10
10-20	156.18
20-30	157.34
30-40	90.88
40-50	23.22
50-60	5.08
60-70	2.89
70-80	1.84
80-90	0.80
90-100	0.09
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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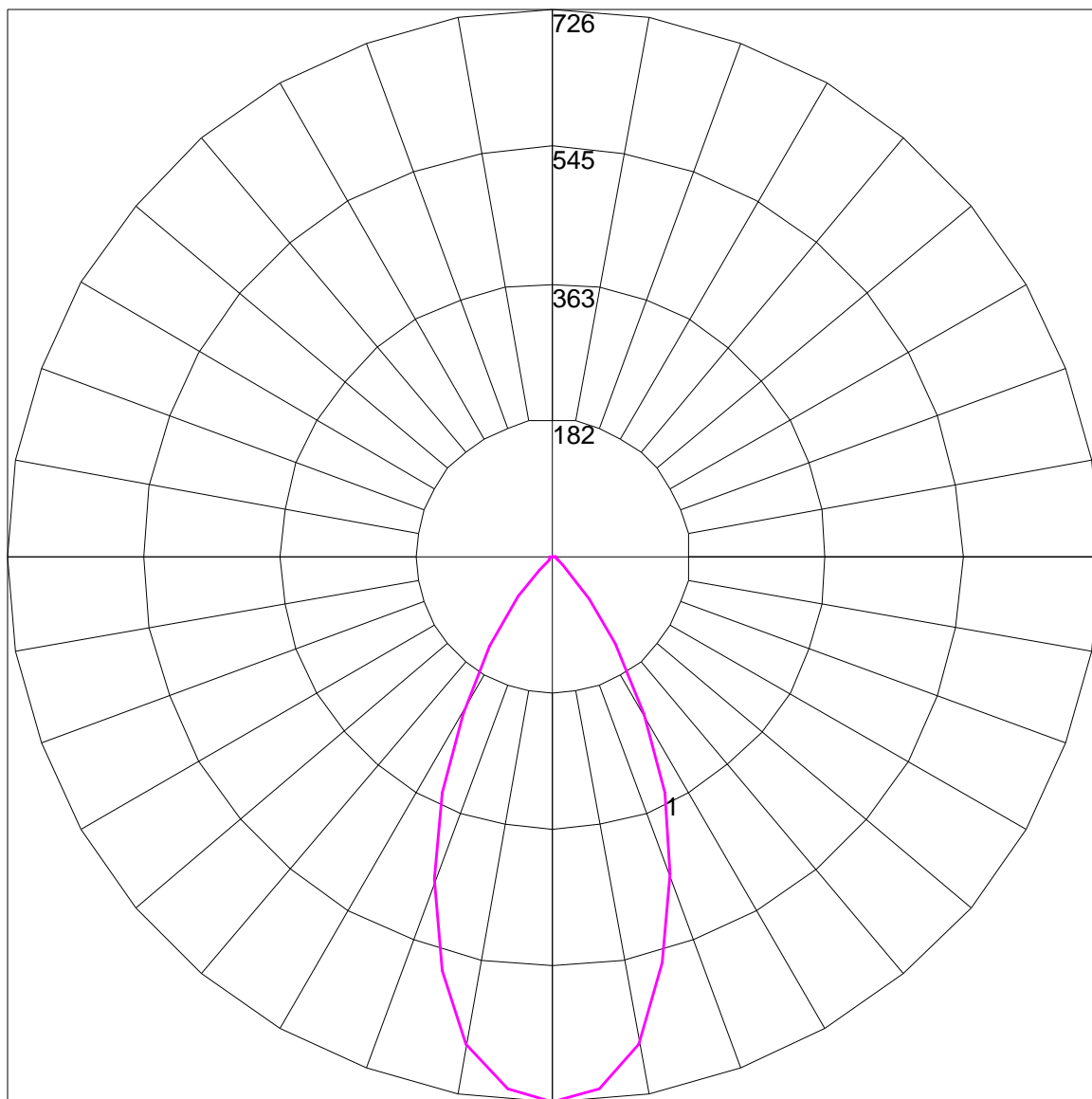
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72
6	89	81	75	71	88	80	74	70	78	73	70	77	73	69	76	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	78	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	56	64	59	55	63	58	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 726.354 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)