

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00640\_1 ~ C0205XT-7LXXK-MDEX-NLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00640\_1\_M-7L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 2/6/2018  
 [UPDATE] 2/7/2018  
 [LUMCAT] C0205XT-7L-xxK-MD-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] 34.5 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	536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	6.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
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\_1 ~ C0205XT-7LXXK-MDEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3028	3442	3402
55	2862	2903	2840
65	2452	2382	2959
75	2595	2624	2658
85	2997	2789	2737

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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	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878
5	1327.832	1324.266	1339.572	1324.959	1329.730	1315.593	1315.101	1317.723	1321.989	1320.870
10	1152.861	1146.055	1173.093	1147.515	1154.324	1134.963	1135.415	1141.698	1153.292	1151.978
15	822.672	829.439	829.641	827.553	818.541	818.442	821.607	819.875	837.493	836.318
20	499.357	511.713	499.056	508.203	488.904	500.063	500.569	495.879	502.570	505.020
25	280.464	289.770	282.565	287.696	277.419	281.311	278.476	273.800	272.801	273.556
30	137.303	147.122	142.451	146.277	137.912	138.200	136.265	129.204	132.695	132.651
35	50.294	58.314	57.844	57.968	49.218	49.854	47.812	43.673	48.441	48.549
40	14.179	17.790	15.167	18.177	13.755	15.146	13.562	11.881	13.290	14.187
45	6.255	6.856	7.110	7.555	7.028	7.362	8.436	6.443	7.090	6.793
50	5.183	5.836	5.590	6.400	6.190	5.630	6.796	5.937	5.964	5.312
55	4.795	4.354	4.864	4.664	4.759	5.527	4.649	4.907	4.695	4.797
60	3.330	4.366	3.752	4.439	3.939	4.341	3.517	3.910	3.944	3.764
65	3.027	2.782	2.941	3.187	3.653	3.740	3.360	3.170	3.259	2.643
70	2.348	2.603	2.827	2.227	2.794	2.917	2.578	2.807	2.523	1.576
75	1.962	1.891	1.984	1.989	2.010	1.632	1.511	1.699	1.700	1.825
80	0.910	0.892	0.691	0.837	1.170	0.796	0.805	1.086	0.869	0.842
85	0.763	0.765	0.710	0.736	0.697	0.711	0.709	0.892	0.804	0.911
90	0.648	0.471	0.622	0.646	0.863	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	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878	1364.878
5	1327.269	1319.360	1320.039	1311.986	1314.518	1316.958	1327.832
10	1169.631	1149.220	1152.322	1133.615	1134.169	1138.738	1152.861
15	842.391	831.557	829.291	818.989	814.749	826.012	822.672
20	501.648	504.578	496.423	497.990	494.664	505.824	499.357
25	269.926	274.074	271.682	275.209	275.484	282.091	280.464
30	129.971	131.131	130.715	132.080	131.075	139.928	137.303
35	48.338	47.642	46.766	46.561	45.848	52.895	50.294
40	12.997	14.465	12.735	13.428	13.925	15.614	14.179
45	7.016	7.711	7.249	8.364	6.515	7.291	6.255

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50	5.869	6.250	6.221	6.890	6.027	5.421	5.183
55	4.309	4.406	4.677	4.896	5.635	4.701	4.795
60	3.358	3.572	3.746	4.103	4.080	4.329	3.330
65	2.511	2.810	3.283	3.435	2.785	3.305	3.027
70	2.507	2.404	2.812	2.608	2.671	2.767	2.348
75	1.594	1.851	2.121	2.179	2.229	1.793	1.962
80	0.822	0.953	1.224	1.088	1.091	1.166	0.910
85	0.809	0.904	0.786	0.743	0.770	0.494	0.763
90	0.000	0.000	0.000	0.669	0.586	0.495	0.648
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	346.99	N.A.	64.70
0-30	481.03	N.A.	89.70
0-40	519.15	N.A.	96.80
0-60	530.16	N.A.	98.90
0-80	535.22	N.A.	99.80
0-90	535.98	N.A.	100.00
10-90	415.51	N.A.	77.50
20-40	172.16	N.A.	32.10
20-50	178.82	N.A.	33.40
40-70	14.15	N.A.	2.60
60-80	5.06	N.A.	0.90
70-80	1.91	N.A.	0.40
80-90	0.76	N.A.	0.10
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	536.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	120.47
10-20	226.52
20-30	134.04
30-40	38.12
40-50	6.66
50-60	4.35
60-70	3.15
70-80	1.91
80-90	0.76
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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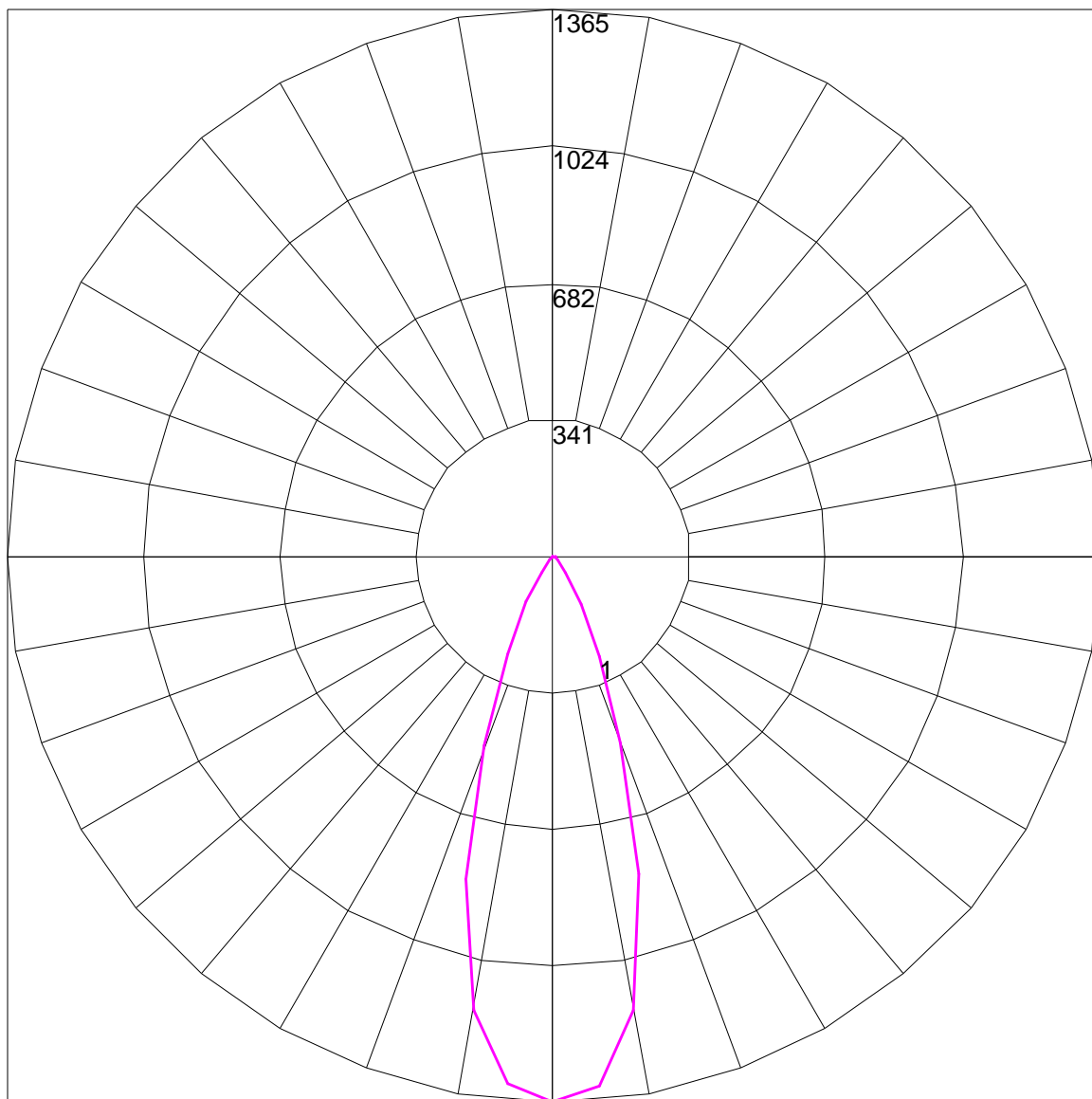
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82
5	98	91	86	83	96	90	86	82	88	84	82	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65

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POLAR GRAPH



Maximum Candela = 1364.878 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)