

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_1 ~ C0205XT-13LXXK-MDEX-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00640_1
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 2/6/2018
[UPDATE] 2/7/2018
[LUMCAT] C0205XT-13L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	13
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-13LXXK-MDEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5465	6213	6141
55	5165	5239	5126
65	4426	4300	5340
75	4683	4736	4798
85	5408	5035	4945

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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	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678
5	2396.808	2390.371	2418.000	2391.622	2400.234	2374.717	2373.829	2378.562	2386.261	2384.242
10	2080.976	2068.691	2117.496	2071.327	2083.618	2048.670	2049.486	2060.826	2081.754	2079.382
15	1484.968	1497.182	1497.546	1493.778	1477.510	1477.332	1483.045	1479.918	1511.721	1509.599
20	901.367	923.670	900.823	917.334	882.498	902.641	903.554	895.089	907.166	911.589
25	506.253	523.050	510.045	519.306	500.756	507.781	502.664	494.223	492.421	493.784
30	247.839	265.563	257.131	264.038	248.938	249.458	245.966	233.221	239.522	239.443
35	90.784	105.260	104.411	104.636	88.841	89.990	86.303	78.832	87.439	87.634
40	25.593	32.112	27.378	32.811	24.828	27.340	24.480	21.445	23.990	25.608
45	11.290	12.375	12.834	13.638	12.686	13.288	15.227	11.630	12.797	12.262
50	9.355	10.535	10.090	11.552	11.173	10.163	12.267	10.716	10.766	9.588
55	8.655	7.859	8.779	8.418	8.590	9.977	8.391	8.858	8.474	8.658
60	6.011	7.880	6.773	8.013	7.110	7.836	6.348	7.057	7.119	6.795
65	5.464	5.021	5.309	5.752	6.593	6.751	6.065	5.722	5.882	4.770
70	4.238	4.699	5.103	4.020	5.044	5.266	4.654	5.067	4.554	2.845
75	3.541	3.414	3.581	3.591	3.628	2.945	2.728	3.067	3.069	3.294
80	1.643	1.610	1.247	1.511	2.112	1.437	1.453	1.961	1.569	1.519
85	1.377	1.381	1.282	1.328	1.259	1.283	1.279	1.611	1.451	1.644
90	1.169	0.850	1.122	1.166	1.557	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	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678	2463.678
5	2395.792	2381.516	2382.742	2368.206	2372.776	2377.181	2396.808
10	2111.248	2074.405	2080.004	2046.236	2047.237	2055.483	2080.976
15	1520.561	1501.005	1496.916	1478.319	1470.666	1490.996	1484.968
20	905.502	910.791	896.070	898.898	892.895	913.040	901.367
25	487.231	494.719	490.400	496.767	497.263	509.189	506.253
30	234.605	236.699	235.947	238.412	236.598	252.578	247.839
35	87.253	85.996	84.415	84.045	82.759	95.478	90.784
40	23.461	26.110	22.988	24.239	25.136	28.184	25.593
45	12.665	13.918	13.084	15.098	11.760	13.161	11.290

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CANDELA TABULATION - (Cont.)

50	10.594	11.281	11.230	12.436	10.879	9.786	9.355
55	7.778	7.953	8.443	8.837	10.171	8.486	8.655
60	6.061	6.448	6.762	7.407	7.364	7.814	6.011
65	4.532	5.073	5.926	6.201	5.027	5.965	5.464
70	4.526	4.339	5.075	4.708	4.821	4.995	4.238
75	2.877	3.341	3.829	3.934	4.023	3.237	3.541
80	1.484	1.721	2.210	1.964	1.970	2.104	1.643
85	1.461	1.632	1.418	1.341	1.390	0.892	1.377
90	0.000	0.000	0.000	1.208	1.058	0.893	1.169
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	626.34	N.A.	64.70
0-30	868.28	N.A.	89.70
0-40	937.10	N.A.	96.80
0-60	956.97	N.A.	98.90
0-80	966.10	N.A.	99.80
0-90	967.47	N.A.	100.00
10-90	750.02	N.A.	77.50
20-40	310.76	N.A.	32.10
20-50	322.78	N.A.	33.40
40-70	25.54	N.A.	2.60
60-80	9.13	N.A.	0.90
70-80	3.46	N.A.	0.40
80-90	1.37	N.A.	0.10
90-110	0.15	N.A.	0.00
90-120	0.15	N.A.	0.00
90-130	0.15	N.A.	0.00
90-150	0.15	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	967.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.45
10-20	408.88
20-30	241.95
30-40	68.82
40-50	12.02
50-60	7.85
60-70	5.68
70-80	3.46
80-90	1.37
90-100	0.15
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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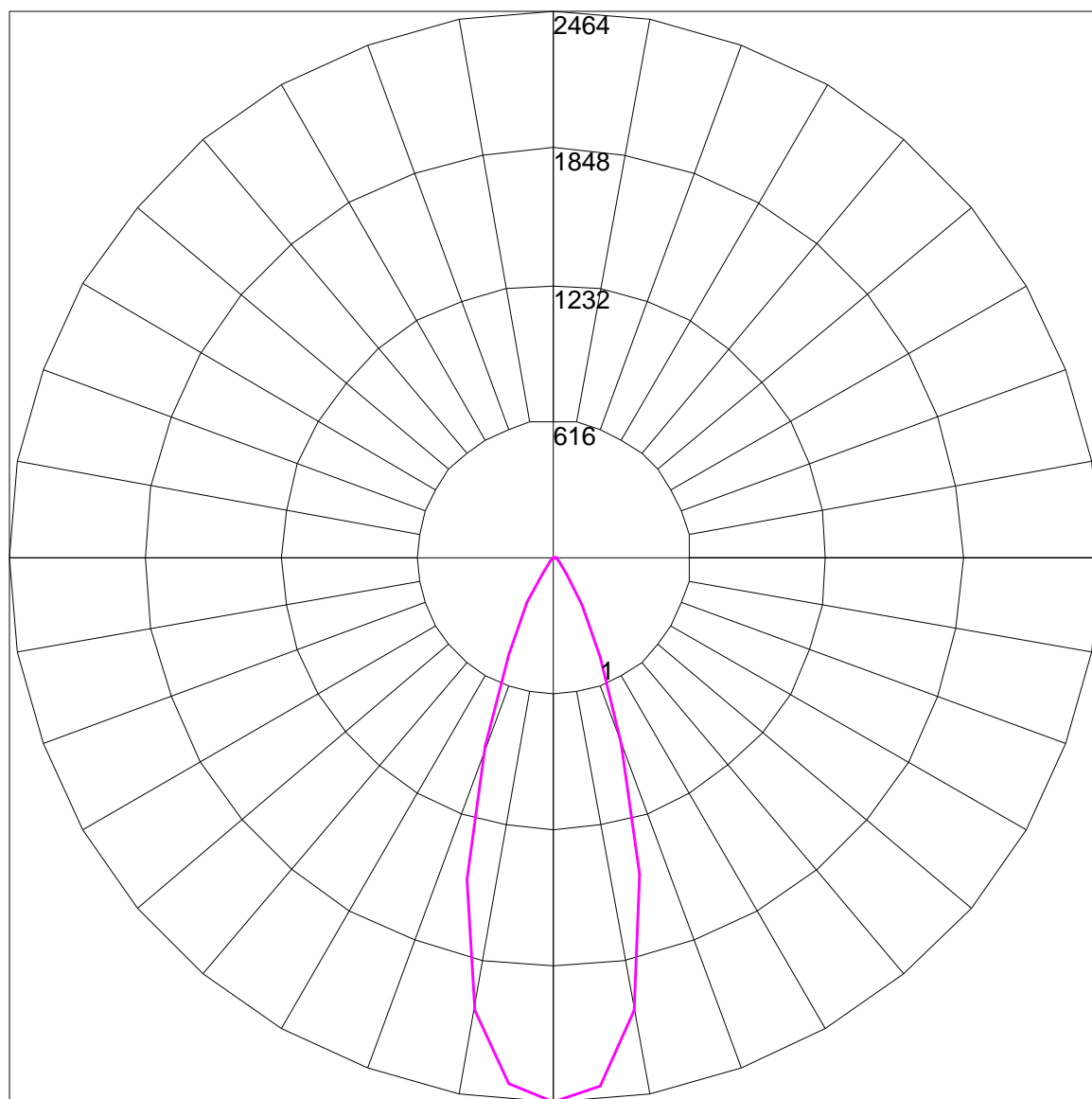
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	101	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	81	87	83	81	85	82	80	79
6	94	87	82	78	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	72
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	68	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 = 2463.678 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)