

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_2 ~ C0205XT-13LXXK-MDEX-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00640_2
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 2/6/2018
[UPDATE] 2/7/2018
[LUMCAT] C0205XT-13L-xxK-MD-EX-SO-xx-MW
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Medium Beam
[OTHER] Matte White finish
[OTHER] Solite Lens
[OTHER] 35.2 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	936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
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)	0.60
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_2 ~ C0205XT-13LXXK-MDEX-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19054	16388	16801
55	9635	8181	7983
65	9258	7386	8185
75	6416	4441	5667
85	5652	4289	5251

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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	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962
5	2031.277	2052.655	2036.121	2043.773	2027.856	2035.715	2031.362	2045.155	2031.787	2050.631
10	1730.898	1743.787	1732.528	1735.138	1723.093	1729.448	1721.063	1736.464	1729.489	1748.701
15	1298.348	1288.609	1289.449	1283.970	1285.962	1289.659	1285.926	1297.792	1291.625	1297.574
20	866.747	847.288	851.115	843.327	853.036	854.436	851.389	860.200	851.368	846.185
25	528.364	511.844	514.596	508.286	517.358	517.380	515.252	517.293	507.743	499.990
30	296.958	282.898	287.111	282.401	288.147	287.507	279.928	281.705	273.871	268.400
35	152.964	144.617	144.571	141.560	143.831	145.276	137.243	141.867	135.972	134.270
40	76.162	70.036	68.982	64.658	69.063	70.451	66.839	68.819	66.326	63.227
45	39.361	35.888	33.852	30.213	34.707	33.819	33.301	34.667	33.721	31.369
50	23.018	19.697	18.637	16.837	18.801	20.007	20.622	20.561	17.655	18.806
55	16.145	15.088	13.708	12.163	13.377	15.833	14.967	14.093	14.291	13.109
60	12.947	13.582	11.813	10.905	12.207	13.035	11.850	11.286	12.000	11.331
65	11.430	11.633	9.119	8.935	10.106	9.403	10.272	8.817	9.054	9.229
70	6.940	7.062	7.228	6.469	7.071	7.213	6.559	7.242	6.031	5.814
75	4.851	4.205	3.358	3.179	4.285	4.094	4.094	3.856	4.293	4.062
80	1.803	1.971	1.744	1.802	2.012	1.800	1.605	2.604	2.336	2.271
85	1.439	1.046	1.092	1.598	1.337	1.673	1.731	1.330	1.726	1.631
90	0.000	0.000	0.000	0.000	0.000	1.317	1.903	1.429	1.212	1.228
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	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962	2140.962
5	2038.899	2049.475	2028.016	2037.967	2030.566	2048.516	2031.277
10	1735.151	1745.561	1723.370	1733.099	1728.610	1738.678	1730.898
15	1283.757	1283.193	1281.512	1285.394	1294.741	1295.174	1298.348
20	833.783	824.037	840.730	839.740	863.592	857.513	866.747
25	487.020	479.839	496.575	496.626	523.125	520.488	528.364
30	258.513	256.093	267.475	267.031	289.089	289.261	296.958
35	123.145	122.707	130.056	134.521	145.943	146.937	152.964
40	56.446	57.322	62.311	64.392	70.360	72.317	76.162
45	26.128	28.118	31.961	33.654	36.103	35.747	39.361

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CANDELA TABULATION - (Cont.)

50	15.871	17.753	19.312	20.116	21.060	19.761	23.018
55	12.131	12.409	14.364	14.888	15.075	13.934	16.145
60	10.901	10.213	11.493	10.809	11.427	11.149	12.947
65	7.373	8.133	9.068	8.980	8.863	10.118	11.430
70	6.765	6.164	7.013	6.158	6.879	7.611	6.940
75	3.591	3.319	3.849	3.806	4.534	3.608	4.851
80	1.723	1.855	1.971	2.571	2.291	1.696	1.803
85	1.539	1.056	1.363	1.350	1.273	1.498	1.439
90	1.194	1.590	1.559	0.000	0.000	0.000	0.000
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	540.48	N.A.	57.70
0-30	782.54	N.A.	83.60
0-40	878.38	N.A.	93.80
0-60	920.74	N.A.	98.40
0-80	934.35	N.A.	99.80
0-90	935.86	N.A.	100.00
10-90	750.95	N.A.	80.20
20-40	337.90	N.A.	36.10
20-50	367.04	N.A.	39.20
40-70	51.58	N.A.	5.50
60-80	13.61	N.A.	1.50
70-80	4.39	N.A.	0.50
80-90	1.51	N.A.	0.20
90-110	0.20	N.A.	0.00
90-120	0.20	N.A.	0.00
90-130	0.20	N.A.	0.00
90-150	0.20	N.A.	0.00
90-180	0.20	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	936.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	184.91
10-20	355.57
20-30	242.06
30-40	95.84
40-50	29.14
50-60	13.22
60-70	9.22
70-80	4.39
80-90	1.51
90-100	0.20
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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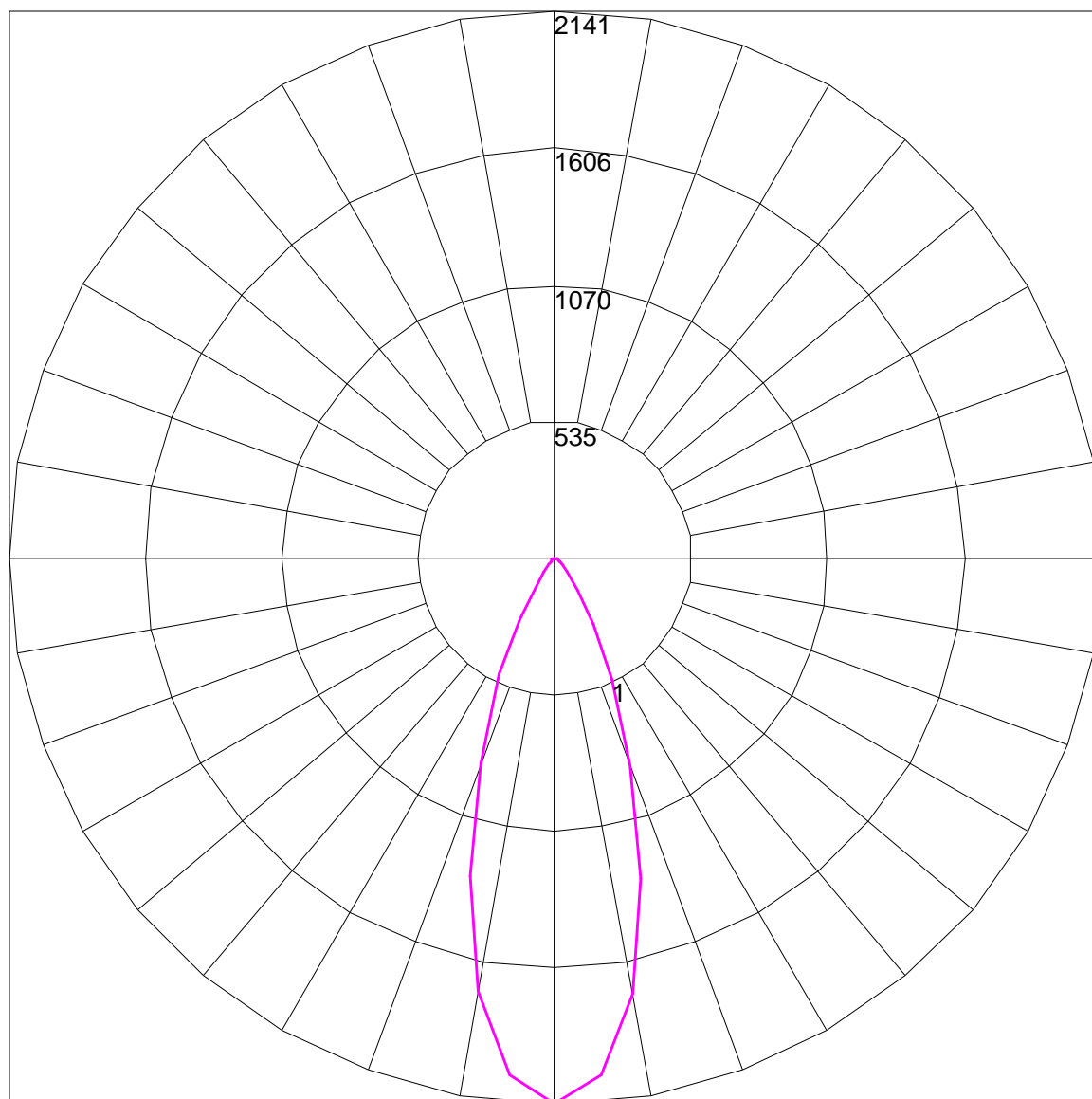
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	79	75	82	78	75	81	77	74	79	76	74	72
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	71	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60

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POLAR GRAPH



Maximum Candela = 2140.962 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)