

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_8 ~ C0205XT-10LXXK-XNEX-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00640_8_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/6/2018

[UPDATE] 2/7/2018

[LUMCAT] C0205XT-10L-xxK-XN-EX-SO-xx-MW

[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Xtra Narrow Beam

[OTHER] Matte White finish

[OTHER] Solite Lens

[OTHER] 19.8 Degree Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, 9mm 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	592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	12.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.38
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_8 ~ C0205XT-10LXXK-XNEX-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14331	11418	13101
55	11995	9584	11073
65	10346	8135	8680
75	4826	4038	5081
85	4949	4953	5180

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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	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862
5	2029.515	2046.014	2000.186	2028.446	1997.234	2111.222	2051.417	2066.460	2012.419	1997.234
10	1204.081	1169.373	1154.267	1160.112	1204.930	1262.953	1245.653	1208.311	1202.415	1135.374
15	627.552	595.805	593.909	597.846	645.038	673.962	667.964	626.710	630.535	579.127
20	374.466	364.095	366.135	367.356	381.171	386.069	389.606	376.740	380.552	365.142
25	256.597	251.209	247.608	252.998	248.151	244.841	255.669	254.295	258.566	264.211
30	162.917	155.076	142.407	151.103	148.110	143.310	148.513	155.982	155.862	159.361
35	85.353	80.016	67.595	72.119	77.966	75.768	74.695	82.082	78.583	71.765
40	44.952	40.947	33.578	36.946	43.010	42.567	44.228	46.032	40.104	35.290
45	29.603	26.576	23.587	23.842	27.063	26.330	27.844	28.901	25.181	24.319
50	23.786	21.297	19.871	17.949	20.129	19.178	20.230	22.206	19.673	20.196
55	20.099	17.473	16.059	15.655	18.554	17.587	18.270	18.146	18.689	17.144
60	16.556	14.214	14.604	13.314	15.095	14.762	14.047	14.868	14.360	16.719
65	12.774	11.292	10.044	9.829	10.717	10.463	10.599	11.491	11.673	11.900
70	7.582	6.587	6.586	6.979	7.237	6.695	7.012	7.778	8.473	8.376
75	3.649	3.170	3.053	3.610	3.842	3.583	3.706	4.460	4.586	4.534
80	1.828	1.252	1.434	1.375	1.716	1.857	1.422	1.720	1.898	1.850
85	1.260	1.101	1.261	1.520	1.319	1.438	1.213	1.134	1.462	1.356
90	0.000	0.000	0.000	0.000	0.000	1.160	0.865	1.002	1.175	0.982
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	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862	2485.862
5	2002.448	1974.235	1987.239	2103.561	2085.318	2078.337	2029.515
10	1164.441	1122.646	1204.346	1248.969	1251.525	1208.020	1204.081
15	594.410	574.804	640.748	654.181	662.581	627.771	627.552
20	367.531	358.288	383.408	393.387	396.531	382.609	374.466
25	264.596	255.849	257.139	272.576	273.138	263.206	256.597
30	165.571	156.773	161.895	175.070	174.734	165.597	162.917
35	82.676	75.717	87.290	91.852	94.322	85.037	85.353
40	40.161	37.498	44.829	48.316	50.624	44.922	44.952
45	24.536	24.656	28.097	29.963	31.938	31.366	29.603

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CANDELA TABULATION - (Cont.)

50	21.339	19.726	21.350	22.034	23.303	24.982	23.786
55	19.567	19.052	18.356	20.234	20.221	21.273	20.099
60	16.515	16.760	16.547	17.001	16.838	17.218	16.556
65	13.064	13.033	13.623	12.716	12.786	12.664	12.774
70	9.617	8.567	9.654	9.124	8.611	7.895	7.582
75	3.986	4.928	5.124	5.370	4.220	4.787	3.649
80	2.420	1.697	2.035	2.136	2.102	1.646	1.828
85	1.163	1.313	1.163	0.966	1.174	1.219	1.260
90	1.094	1.349	1.175	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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Zone	Lumens	%Lamp	%Fixt
0-20	360.27	N.A.	60.90
0-30	479.37	N.A.	81.00
0-40	534.80	N.A.	90.40
0-60	573.85	N.A.	97.00
0-80	590.25	N.A.	99.80
0-90	591.56	N.A.	100.00
10-90	421.88	N.A.	71.30
20-40	174.53	N.A.	29.50
20-50	197.08	N.A.	33.30
40-70	50.70	N.A.	8.60
60-80	16.40	N.A.	2.80
70-80	4.75	N.A.	0.80
80-90	1.32	N.A.	0.20
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	591.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.69
10-20	190.58
20-30	119.10
30-40	55.43
40-50	22.56
50-60	16.50
60-70	11.65
70-80	4.75
80-90	1.32
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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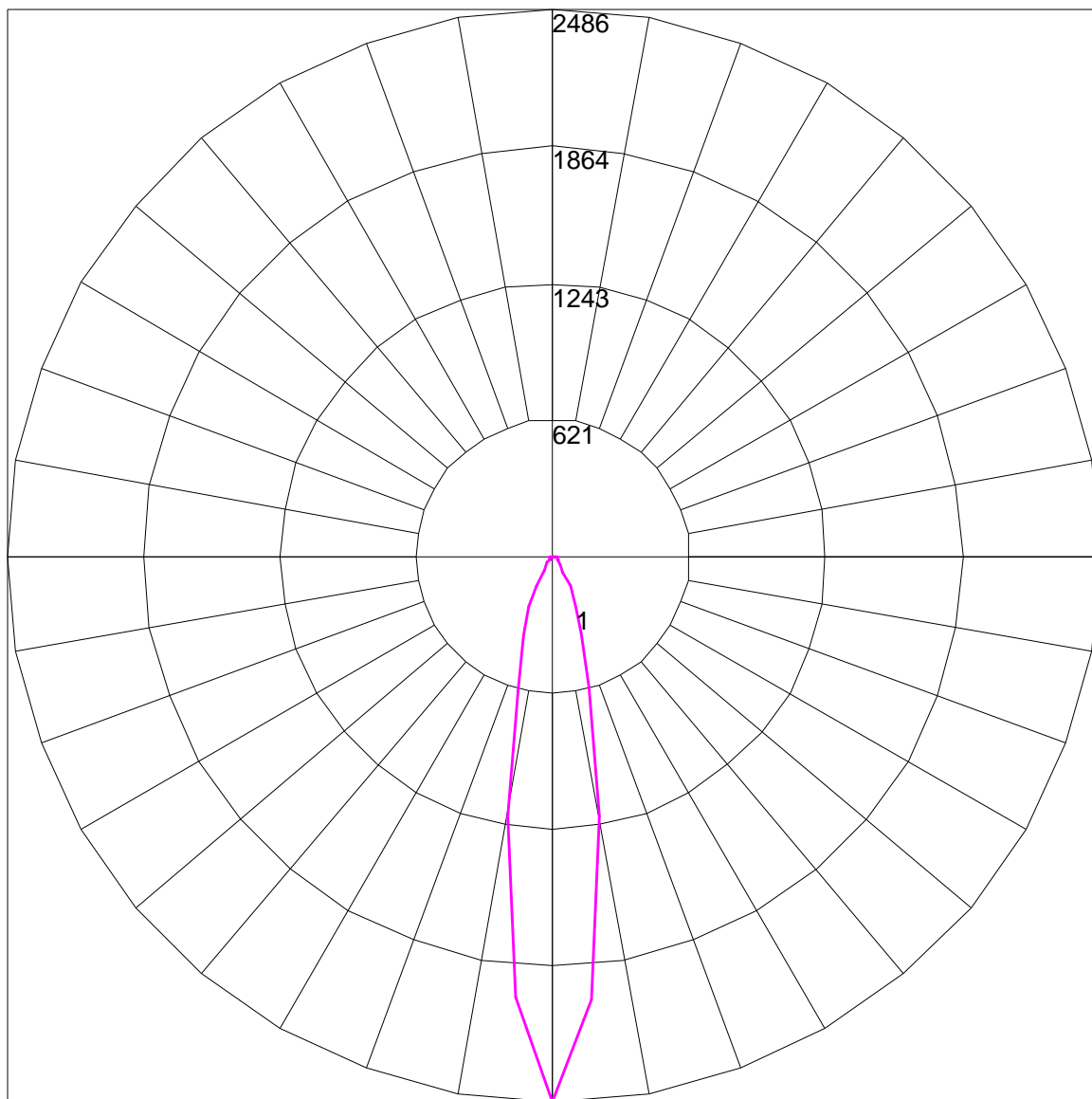
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	95	97	94	92	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	93	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73
7	89	81	76	73	88	81	76	72	79	75	72	78	75	72	77	74	71	70
8	86	78	73	70	85	78	73	69	77	72	69	76	72	69	75	71	69	67
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	81	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

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POLAR GRAPH



Maximum Candela = 2485.862 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)