

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_7 ~ C0205XT-10LXXK-XNEX-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00640_7_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/6/2018

[UPDATE] 2/7/2018

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

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

[OTHER] Matte White finish

[OTHER] No Lens

[OTHER] 15.2 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	637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	12.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.28
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_7 ~ C0205XT-10LXXK-XNEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7369	6469	6486
55	10256	9571	9697
65	10160	9247	8683
75	5662	5397	5114
85	5004	3696	4591

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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	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127
5	3151.126	3180.537	3148.022	3119.812	3047.082	3290.823	3111.423	3180.616	3163.013	3200.356
10	1328.308	1193.638	1254.835	1159.798	1232.613	1320.060	1349.373	1337.997	1384.180	1318.037
15	517.791	462.778	495.096	461.469	499.270	502.354	534.939	513.169	531.222	492.892
20	354.260	348.593	353.597	348.828	353.656	350.749	354.766	347.902	353.422	348.002
25	307.772	311.874	296.476	302.848	291.323	273.710	279.755	286.810	291.061	304.751
30	161.279	146.118	126.145	129.582	123.961	129.141	132.697	146.421	155.185	175.153
35	43.863	24.421	28.324	24.444	29.369	28.893	34.630	29.336	39.163	35.689
40	17.040	15.789	15.028	15.327	13.865	13.938	14.997	13.283	15.953	15.256
45	15.223	15.028	13.364	11.287	13.398	12.637	13.477	12.192	13.503	14.129
50	16.641	15.253	14.878	13.067	13.248	13.989	13.875	13.932	14.722	15.464
55	17.185	16.803	16.038	14.457	16.248	15.297	14.357	15.975	16.063	17.473
60	16.285	13.541	14.360	13.060	17.356	14.510	13.719	14.145	15.090	16.150
65	12.544	12.859	11.417	11.055	10.720	11.537	10.743	11.299	12.936	12.223
70	11.508	8.132	7.016	9.380	8.722	7.899	8.223	9.102	9.492	9.096
75	4.281	4.041	4.081	3.527	3.867	3.889	3.562	4.455	4.270	4.908
80	1.286	1.506	0.924	1.083	1.512	1.491	1.484	1.168	1.878	2.232
85	1.274	1.096	0.941	1.577	1.169	1.193	1.401	1.523	1.563	1.175
90	0.000	0.000	0.000	0.000	0.000	1.137	1.171	1.416	0.847	0.789
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	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127	4455.127
5	3216.612	3148.288	3102.993	3149.926	3149.631	3090.916	3151.126
10	1357.263	1262.303	1301.964	1332.064	1325.121	1259.688	1328.308
15	515.166	484.627	504.265	527.757	511.460	500.834	517.791
20	353.160	350.710	353.528	360.384	353.647	355.405	354.260
25	306.943	311.647	304.765	318.308	308.222	315.426	307.772
30	188.801	186.551	186.978	189.095	184.604	172.224	161.279
35	47.428	41.300	50.969	56.356	56.884	39.660	43.863
40	16.232	15.782	16.469	17.040	16.978	15.126	17.040
45	15.091	14.071	14.174	14.044	15.008	15.745	15.223

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CANDELA TABULATION - (Cont.)

50	17.275	14.491	15.036	15.224	15.756	16.656	16.641
55	17.488	16.880	17.404	19.029	17.559	17.319	17.185
60	16.167	17.602	17.323	17.713	16.499	17.247	16.285
65	13.823	14.863	14.384	14.057	13.599	12.558	12.544
70	10.479	11.092	10.532	11.446	10.459	10.211	11.508
75	5.437	5.273	5.250	4.979	5.797	4.807	4.281
80	2.250	2.064	2.303	1.437	1.972	1.520	1.286
85	1.556	0.922	1.292	1.022	1.227	0.774	1.274
90	1.178	0.830	1.172	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	427.29	N.A.	67.10
0-30	553.91	N.A.	87.00
0-40	591.81	N.A.	93.00
0-60	617.41	N.A.	97.00
0-80	635.18	N.A.	99.80
0-90	636.45	N.A.	100.00
10-90	386.37	N.A.	60.70
20-40	164.51	N.A.	25.80
20-50	175.79	N.A.	27.60
40-70	38.05	N.A.	6.00
60-80	17.78	N.A.	2.80
70-80	5.33	N.A.	0.80
80-90	1.26	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	636.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	250.08
10-20	177.22
20-30	126.62
30-40	37.90
40-50	11.28
50-60	14.32
60-70	12.45
70-80	5.33
80-90	1.26
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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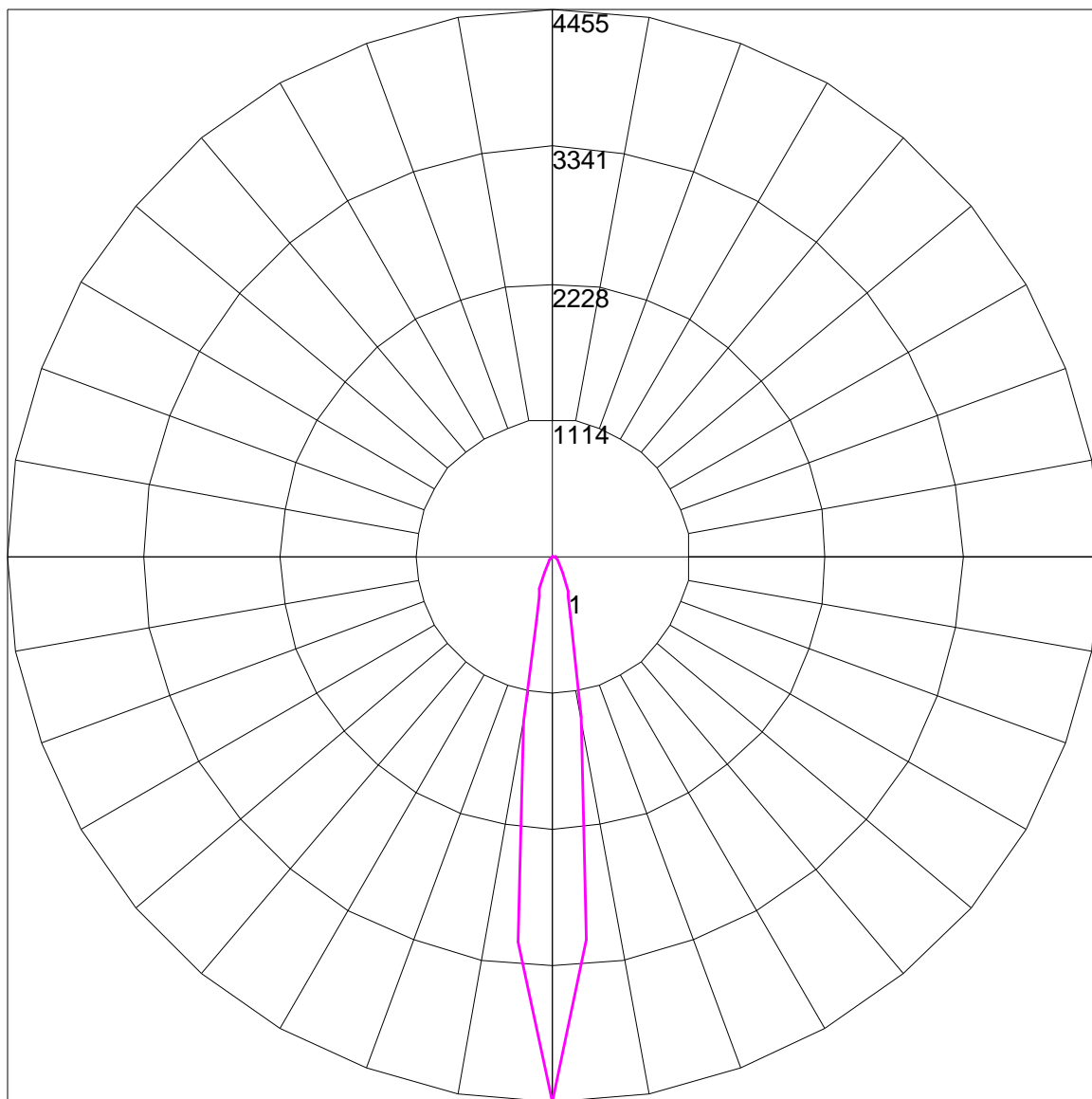
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	89	84	81	94	88	84	80	86	83	80	85	82	79	84	81	79	78
7	93	85	81	78	91	85	81	77	84	80	77	83	79	77	82	79	76	75
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	79	76	74	73
9	87	80	76	73	86	80	75	73	79	75	72	78	75	72	77	74	72	71
10	85	78	73	71	84	77	73	71	77	73	70	76	73	70	75	72	70	69

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POLAR GRAPH



Maximum Candela = 4455.127 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)