

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_3 ~ C0205XT-10LXXK-WDEX-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00640\_3\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-10L-xxK-WD-EX-GL-xx-MW  
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Wide Beam  
[OTHER] Matte White finish  
[OTHER] Clear Glass Lens  
[OTHER] 48.6 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	676
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.78
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\_3 ~ C0205XT-10LXXK-WDEX-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10410	11505	15398
55	4289	4178	5033
65	2458	2968	2919
75	3170	3009	2592
85	3778	4815	4285

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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	972.842	972.842	972.842	972.842	972.842	972.842	972.842	972.842	972.842	972.842
5	951.237	954.379	961.264	954.778	954.446	947.107	943.270	945.841	952.830	954.187
10	884.254	885.042	895.216	886.305	883.330	872.921	866.253	874.313	885.241	886.872
15	751.333	756.616	756.924	753.835	755.398	746.794	744.309	750.250	764.819	765.018
20	605.009	614.095	614.616	608.164	601.680	600.615	596.372	603.063	612.180	616.985
25	467.311	467.703	467.278	466.302	461.907	455.391	452.746	457.936	466.237	467.755
30	324.480	323.992	322.766	320.062	315.317	305.824	305.260	310.786	323.999	325.936
35	191.859	194.699	191.305	189.358	186.180	178.228	175.582	182.123	194.799	197.040
40	97.505	97.601	94.305	96.973	93.545	92.231	86.804	93.534	96.250	98.622
45	21.505	26.904	23.766	22.319	31.808	29.121	32.272	27.999	33.061	31.302
50	8.057	9.484	9.053	10.154	11.306	11.313	9.432	8.632	9.179	9.677
55	7.186	6.678	7.000	8.865	8.433	7.666	6.455	6.969	6.737	7.265
60	4.991	4.629	4.891	4.478	5.474	4.613	4.571	4.522	4.489	5.362
65	3.035	2.853	3.664	4.071	3.604	2.962	3.330	3.220	3.628	3.231
70	3.245	2.909	3.208	3.093	3.165	3.216	3.644	3.323	3.703	3.568
75	2.397	2.012	2.275	1.860	1.960	2.061	2.286	2.958	2.589	2.374
80	1.657	1.190	0.785	1.325	1.011	1.353	0.994	1.066	1.132	0.979
85	0.962	0.911	1.226	0.794	1.091	1.235	0.912	1.417	1.189	1.084
90	1.088	0.870	1.044	1.040	0.638	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	972.842	972.842	972.842	972.842	972.842	972.842	972.842
5	956.506	952.085	952.877	944.803	947.098	945.794	951.237
10	890.214	883.905	886.771	871.472	869.637	871.110	884.254
15	772.383	762.951	761.311	746.997	742.755	744.808	751.333
20	613.316	611.397	603.816	599.902	596.052	600.130	605.009
25	467.682	465.585	463.284	456.206	454.847	458.342	467.311
30	325.828	323.551	317.410	311.543	307.975	315.760	324.480
35	196.350	194.811	187.670	182.162	179.075	188.595	191.859
40	93.257	96.562	94.710	94.438	95.754	99.946	97.505
45	31.480	35.589	32.179	32.301	27.605	33.329	21.505

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CANDELA TABULATION - (Cont.)

50	9.908	10.457	11.086	11.609	10.970	11.552	8.057
55	8.933	7.574	9.275	7.272	7.591	8.094	7.186
60	6.002	6.284	6.035	5.236	5.664	4.995	4.991
65	3.944	4.469	4.714	4.069	3.319	3.284	3.035
70	2.804	3.480	3.156	4.373	3.110	2.716	3.245
75	2.603	2.503	2.747	2.971	2.426	2.032	2.397
80	1.524	1.790	1.888	1.344	1.324	1.229	1.657
85	1.225	1.335	1.119	0.999	1.137	1.221	0.962
90	0.000	0.000	0.000	0.831	0.727	0.689	1.088
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	297.71	N.A.	44.10
0-30	508.45	N.A.	75.30
0-40	630.17	N.A.	93.30
0-60	668.07	N.A.	98.90
0-80	674.40	N.A.	99.80
0-90	675.47	N.A.	100.00
10-90	586.94	N.A.	86.90
20-40	332.45	N.A.	49.20
20-50	363.55	N.A.	53.80
40-70	41.77	N.A.	6.20
60-80	6.33	N.A.	0.90
70-80	2.46	N.A.	0.40
80-90	1.08	N.A.	0.20
90-110	0.12	N.A.	0.00
90-120	0.12	N.A.	0.00
90-130	0.12	N.A.	0.00
90-150	0.12	N.A.	0.00
90-180	0.12	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	675.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.54
10-20	209.18
20-30	210.74
30-40	121.72
40-50	31.09
50-60	6.81
60-70	3.86
70-80	2.46
80-90	1.08
90-100	0.12
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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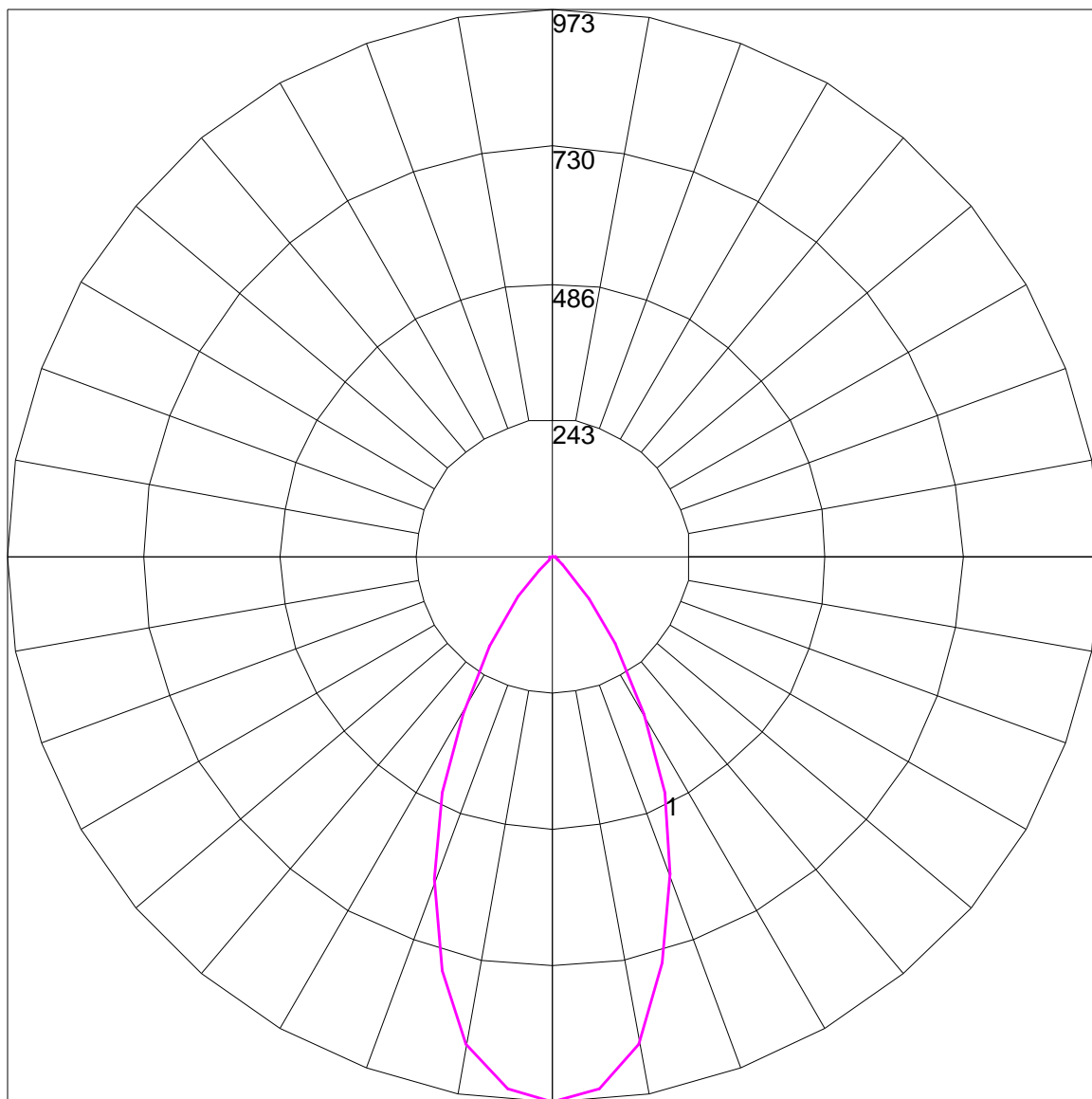
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	96	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	68
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	59	56	73	64	59	55	64	59	55	63	58	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 972.842 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)