

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00640\_1 ~ C0205XT-10LXXK-MDEX-NLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00640\_1\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 2/6/2018  
 [UPDATE] 2/7/2018  
 [LUMCAT] C0205XT-10L-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, scaled from 13L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	718
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	9.1
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-10LXXK-MDEX-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4055	4610	4557
55	3833	3887	3804
65	3284	3190	3962
75	3474	3514	3560
85	4014	3735	3668

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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	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049
5	1778.431	1773.655	1794.156	1774.583	1780.974	1762.040	1761.381	1764.893	1770.606	1769.108
10	1544.084	1534.969	1571.182	1536.925	1546.045	1520.113	1520.719	1529.133	1544.661	1542.901
15	1101.846	1110.909	1111.179	1108.383	1096.312	1096.180	1100.419	1098.099	1121.697	1120.122
20	668.814	685.363	668.411	680.662	654.814	669.760	670.437	664.156	673.117	676.399
25	375.640	388.103	378.453	385.325	371.561	376.773	372.977	366.713	365.376	366.388
30	183.897	197.048	190.791	195.916	184.712	185.098	182.507	173.050	177.725	177.667
35	67.362	78.103	77.473	77.640	65.920	66.773	64.037	58.493	64.880	65.024
40	18.990	23.827	20.314	24.346	18.422	20.286	18.164	15.912	17.801	19.001
45	8.377	9.182	9.523	10.119	9.413	9.860	11.298	8.629	9.495	9.098
50	6.941	7.817	7.487	8.572	8.290	7.541	9.102	7.951	7.988	7.114
55	6.422	5.831	6.514	6.246	6.374	7.403	6.226	6.573	6.288	6.424
60	4.460	5.847	5.026	5.946	5.276	5.814	4.710	5.236	5.282	5.042
65	4.054	3.726	3.939	4.268	4.892	5.009	4.500	4.246	4.364	3.539
70	3.145	3.487	3.786	2.983	3.743	3.907	3.453	3.760	3.379	2.111
75	2.627	2.533	2.657	2.665	2.692	2.185	2.024	2.276	2.277	2.444
80	1.219	1.195	0.925	1.121	1.567	1.066	1.078	1.455	1.164	1.127
85	1.022	1.025	0.951	0.985	0.934	0.952	0.949	1.195	1.077	1.220
90	0.867	0.631	0.833	0.865	1.155	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	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049	1828.049
5	1777.678	1767.085	1767.995	1757.209	1760.600	1763.868	1778.431
10	1566.546	1539.208	1543.363	1518.307	1519.050	1525.168	1544.084
15	1128.256	1113.746	1110.712	1096.913	1091.234	1106.319	1101.846
20	671.882	675.807	664.884	666.982	662.528	677.476	668.814
25	361.525	367.081	363.877	368.601	368.969	377.818	375.640
30	174.077	175.631	175.073	176.902	175.556	187.413	183.897
35	64.742	63.809	62.636	62.361	61.407	70.845	67.362
40	17.408	19.374	17.057	17.985	18.651	20.913	18.990
45	9.397	10.327	9.708	11.203	8.726	9.765	8.377

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**CANDELA TABULATION - (Cont.)**

50	7.861	8.371	8.333	9.228	8.072	7.261	6.941
55	5.771	5.901	6.265	6.557	7.547	6.297	6.422
60	4.497	4.784	5.017	5.496	5.464	5.798	4.460
65	3.363	3.764	4.397	4.601	3.730	4.426	4.054
70	3.358	3.220	3.766	3.493	3.577	3.706	3.145
75	2.135	2.479	2.841	2.919	2.985	2.402	2.627
80	1.101	1.277	1.640	1.457	1.462	1.561	1.219
85	1.084	1.211	1.052	0.995	1.031	0.662	1.022
90	0.000	0.000	0.000	0.896	0.785	0.663	0.867
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	464.74	N.A.	64.70
0-30	644.27	N.A.	89.70
0-40	695.33	N.A.	96.80
0-60	710.07	N.A.	98.90
0-80	716.85	N.A.	99.80
0-90	717.87	N.A.	100.00
10-90	556.51	N.A.	77.50
20-40	230.59	N.A.	32.10
20-50	239.50	N.A.	33.40
40-70	18.95	N.A.	2.60
60-80	6.78	N.A.	0.90
70-80	2.56	N.A.	0.40
80-90	1.02	N.A.	0.10
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	717.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.35
10-20	303.39
20-30	179.53
30-40	51.06
40-50	8.92
50-60	5.83
60-70	4.21
70-80	2.56
80-90	1.02
90-100	0.11
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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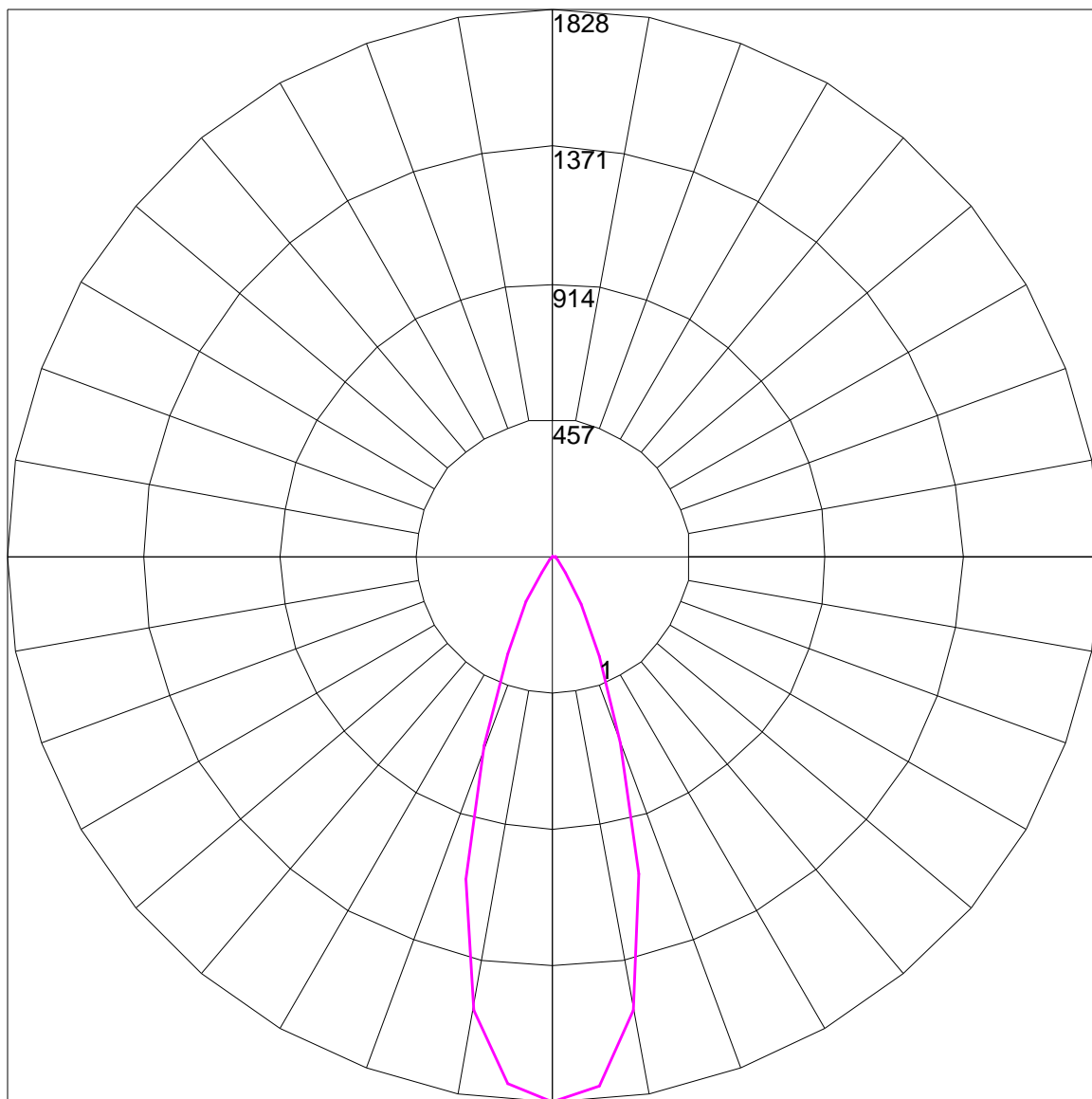
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	102	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	82	87	83	81	85	82	80	79
6	94	87	82	79	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	69	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 = 1828.049 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)