

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

IESNA:LM-63-2002  
[TEST] SP-00640\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/6/2018  
[UPDATE] 2/7/2018  
[LUMCAT] C0205XT-10L-xxK-MD-EX-GL-xx-MW  
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Medium Beam  
[OTHER] Matte White finish  
[OTHER] Clear Glass Lens  
[OTHER] 34.8 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	685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2989	3815	4720
55	3094	2871	3769
65	3094	3064	3800
75	2564	3466	2965
85	3236	3052	3272

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00640 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES**

**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	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117
5	1648.581	1643.522	1660.183	1643.395	1648.355	1634.935	1633.963	1633.982	1642.257	1642.921
10	1433.524	1424.350	1454.852	1425.818	1434.795	1412.129	1414.995	1416.700	1438.509	1437.902
15	1030.532	1036.447	1035.675	1035.342	1027.021	1024.856	1032.046	1027.465	1049.203	1049.332
20	631.673	648.560	636.635	643.503	620.941	634.671	638.431	630.906	639.798	644.294
25	368.033	374.444	368.301	375.300	363.615	367.373	365.513	359.517	358.379	361.389
30	193.176	197.475	193.766	199.297	190.453	191.589	188.409	179.681	182.608	184.677
35	81.886	82.536	82.988	84.445	74.929	75.720	73.666	67.107	71.459	72.035
40	23.789	26.053	22.688	27.300	21.639	24.064	22.259	19.905	19.938	21.403
45	6.175	8.477	7.881	9.679	9.751	9.676	9.245	8.647	7.361	8.772
50	5.839	5.761	6.691	7.102	6.269	6.504	6.381	6.504	5.001	6.021
55	5.184	4.908	4.811	5.964	6.316	4.895	4.642	4.222	4.517	4.865
60	4.908	4.380	4.030	4.697	5.414	5.014	4.054	4.139	4.405	3.867
65	3.820	3.520	3.783	3.585	4.692	4.220	3.916	3.604	3.412	3.327
70	2.720	3.348	3.483	3.412	3.552	3.058	3.033	2.944	2.759	2.950
75	1.939	2.197	2.621	2.586	2.242	2.061	2.403	2.257	1.448	1.876
80	1.472	1.174	1.224	1.483	0.945	1.221	1.080	1.126	1.049	1.174
85	0.824	0.856	0.777	1.247	0.833	0.943	0.889	0.911	0.793	0.565
90	0.838	0.792	0.907	0.704	0.611	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	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117	1693.117
5	1650.051	1639.352	1639.167	1629.100	1634.069	1635.227	1648.581
10	1456.106	1431.847	1436.109	1412.303	1413.673	1418.369	1433.524
15	1056.034	1045.023	1040.236	1027.885	1021.471	1035.603	1030.532
20	638.174	643.627	632.641	634.529	626.850	642.533	631.673
25	352.687	358.377	355.672	358.314	358.857	369.263	368.033
30	180.428	180.944	180.359	181.569	182.046	195.927	193.176
35	73.754	72.818	72.162	71.289	70.151	83.206	81.886
40	20.686	23.155	21.944	22.442	24.040	27.668	23.789
45	9.426	10.965	10.297	10.272	10.762	11.172	6.175

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00640 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES

CANDELA TABULATION - (Cont.)

50	6.409	7.412	6.936	6.661	6.456	7.258	5.839
55	4.755	5.218	5.113	5.734	4.694	5.900	5.184
60	3.533	3.720	4.144	4.393	3.887	4.051	4.908
65	3.195	3.996	4.327	3.588	2.835	3.112	3.820
70	3.172	2.812	2.967	2.957	4.187	2.604	2.720
75	2.028	2.477	2.342	2.435	2.589	2.668	1.939
80	1.142	1.290	1.255	1.463	1.132	1.116	1.472
85	0.977	1.132	0.826	0.812	0.929	0.919	0.824
90	0.000	0.000	0.000	1.305	0.752	1.163	0.838
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00640 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	433.74	N.A.	63.40
0-30	608.38	N.A.	88.90
0-40	663.62	N.A.	96.90
0-60	677.47	N.A.	99.00
0-80	683.47	N.A.	99.80
0-90	684.41	N.A.	100.00
10-90	534.72	N.A.	78.10
20-40	229.88	N.A.	33.60
20-50	239.05	N.A.	34.90
40-70	17.52	N.A.	2.60
60-80	6.00	N.A.	0.90
70-80	2.34	N.A.	0.30
80-90	0.93	N.A.	0.10
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	684.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.69
10-20	284.06
20-30	174.64
30-40	55.24
40-50	9.17
50-60	4.69
60-70	3.66
70-80	2.34
80-90	0.93
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00640 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES

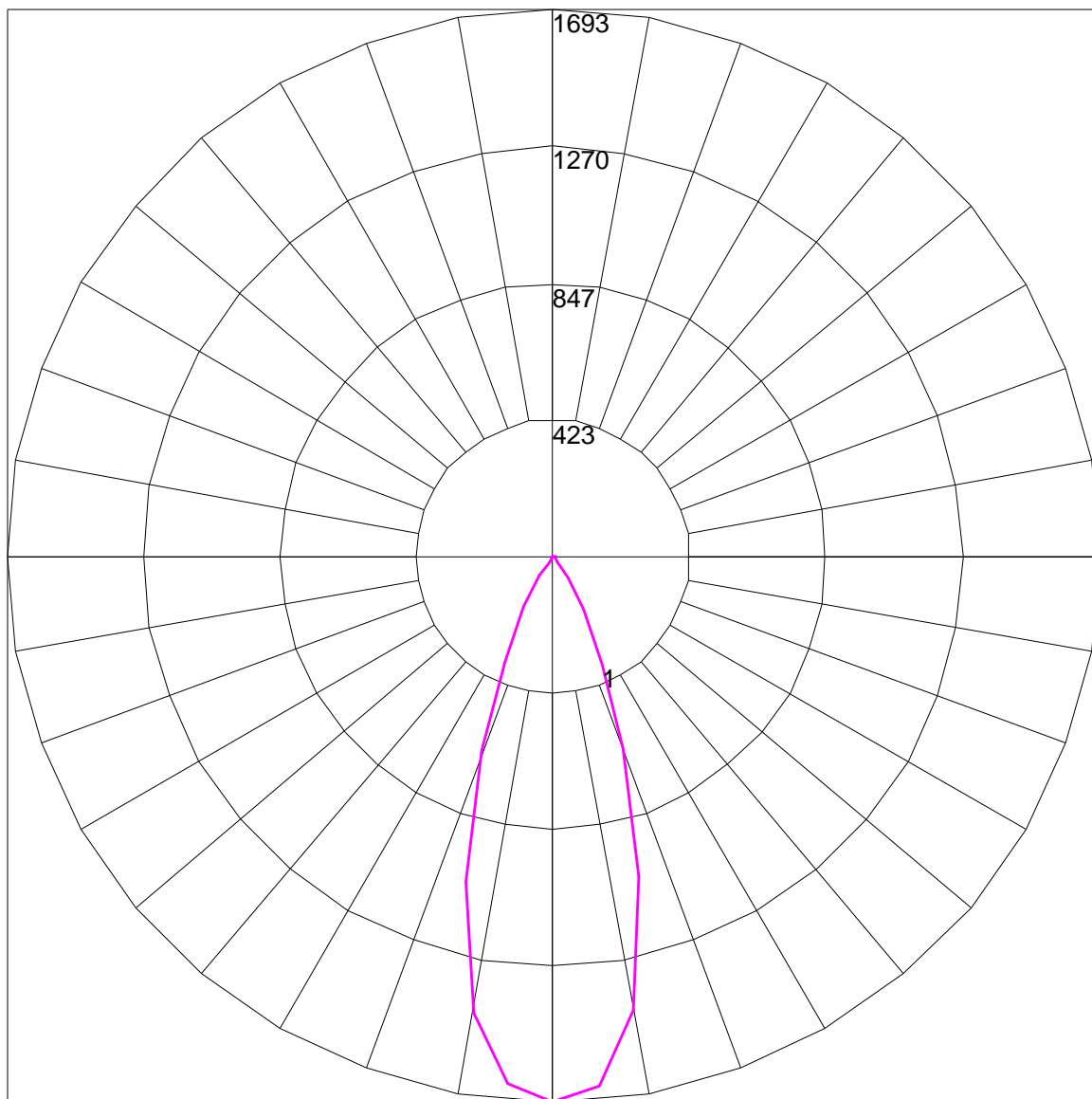
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	88	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	73	79	76	73	72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	73	69	66	80	73	68	65	72	68	65	72	68	65	71	67	65	64

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00640 ~ C0205XT-10LXXK-MDEX-GLXXMW.IES

POLAR GRAPH



Maximum Candela = 1693.117 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)