

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00640\_6 ~ C0205XT-10LXXK-XNEX-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00640\_6\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/6/2018

[UPDATE] 2/7/2018

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

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

[OTHER] Matte White finish

[OTHER] Clear Glass Lens

[OTHER] 15.3 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	589
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)	0.28
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\_6 ~ C0205XT-10LXXK-XNEX-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6793	6534	6254
55	7390	7195	7995
65	6649	5623	5339
75	5438	3420	4104
85	3602	2419	5212

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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>
<b>0</b>	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497
<b>5</b>	2860.723	2936.890	2831.249	2828.178	2749.808	2998.703	2777.748	2855.223	2839.649	2854.492
<b>10</b>	1229.648	1097.253	1154.266	1042.247	1153.049	1198.414	1223.078	1199.031	1276.540	1154.409
<b>15</b>	481.569	431.910	463.231	426.873	473.389	463.981	498.588	470.145	511.825	449.504
<b>20</b>	325.563	320.046	322.558	318.979	326.518	318.578	326.765	322.051	331.497	323.435
<b>25</b>	284.492	281.418	277.808	282.295	274.163	258.416	268.014	271.639	271.699	292.439
<b>30</b>	167.064	157.660	134.766	143.977	137.837	137.697	138.142	147.487	149.760	181.504
<b>35</b>	51.205	33.179	30.360	28.352	36.854	34.641	39.171	37.455	51.107	40.849
<b>40</b>	16.122	16.246	14.510	13.930	13.709	15.145	16.274	22.558	29.391	16.108
<b>45</b>	14.033	14.896	13.498	12.546	12.919	13.414	17.075	24.847	22.017	14.811
<b>50</b>	11.789	14.291	11.517	12.477	11.356	12.308	15.345	20.947	15.124	14.586
<b>55</b>	12.383	12.198	12.056	11.221	13.397	12.781	13.618	16.159	15.233	13.129
<b>60</b>	12.261	10.661	9.718	10.461	10.395	11.201	12.157	12.673	13.767	11.569
<b>65</b>	8.209	7.698	6.942	8.041	6.592	7.607	7.965	9.217	8.655	8.828
<b>70</b>	6.305	4.971	4.997	4.715	6.548	4.959	6.211	6.073	6.435	6.669
<b>75</b>	4.112	2.621	2.586	2.295	3.103	1.916	3.464	3.558	4.451	3.185
<b>80</b>	1.767	1.698	1.972	1.065	1.132	1.416	1.457	1.652	1.845	1.370
<b>85</b>	0.917	0.781	0.616	1.166	1.327	1.236	1.257	0.969	1.132	0.969
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.888	0.884	1.145	1.098	1.065
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497	4008.497
<b>5</b>	2896.650	2814.980	2783.910	2813.153	2864.667	2799.115	2860.723
<b>10</b>	1250.404	1141.694	1204.371	1192.826	1221.601	1100.683	1229.648
<b>15</b>	487.693	452.827	475.747	487.818	475.715	444.435	481.569
<b>20</b>	327.548	324.749	330.458	332.046	327.201	321.178	325.563
<b>25</b>	287.895	287.024	289.956	296.865	287.932	296.170	284.492
<b>30</b>	195.674	177.772	190.341	193.832	189.954	178.683	167.064
<b>35</b>	64.146	50.597	63.402	60.506	70.949	37.922	51.205
<b>40</b>	22.856	24.689	18.606	20.766	26.875	16.032	16.122
<b>45</b>	16.326	16.362	14.810	14.727	20.833	15.149	14.033

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**CANDELA TABULATION - (Cont.)**

50	14.117	14.768	14.268	13.358	17.249	14.599	11.789
55	12.978	13.823	14.705	15.584	17.082	14.275	12.383
60	11.841	11.899	13.567	15.169	14.718	13.513	12.261
65	9.224	8.449	9.903	9.087	10.438	8.879	8.209
70	6.904	7.130	7.033	5.834	7.636	6.713	6.305
75	3.515	4.620	5.012	3.748	4.607	3.271	4.112
80	1.924	1.787	1.575	1.681	1.714	1.645	1.767
85	0.966	1.041	1.025	1.337	1.053	1.091	0.917
90	1.060	1.047	1.158	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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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	388.81	N.A.	66.00
0-30	508.84	N.A.	86.40
0-40	550.48	N.A.	93.40
0-60	575.24	N.A.	97.60
0-80	587.89	N.A.	99.80
0-90	589.05	N.A.	100.00
10-90	363.26	N.A.	61.70
20-40	161.68	N.A.	27.40
20-50	174.32	N.A.	29.60
40-70	33.51	N.A.	5.70
60-80	12.65	N.A.	2.10
70-80	3.90	N.A.	0.70
80-90	1.15	N.A.	0.20
90-110	0.14	N.A.	0.00
90-120	0.14	N.A.	0.00
90-130	0.14	N.A.	0.00
90-150	0.14	N.A.	0.00
90-180	0.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	589.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	225.78
10-20	163.02
20-30	120.03
30-40	41.65
40-50	12.65
50-60	12.11
60-70	8.75
70-80	3.90
80-90	1.15
90-100	0.14
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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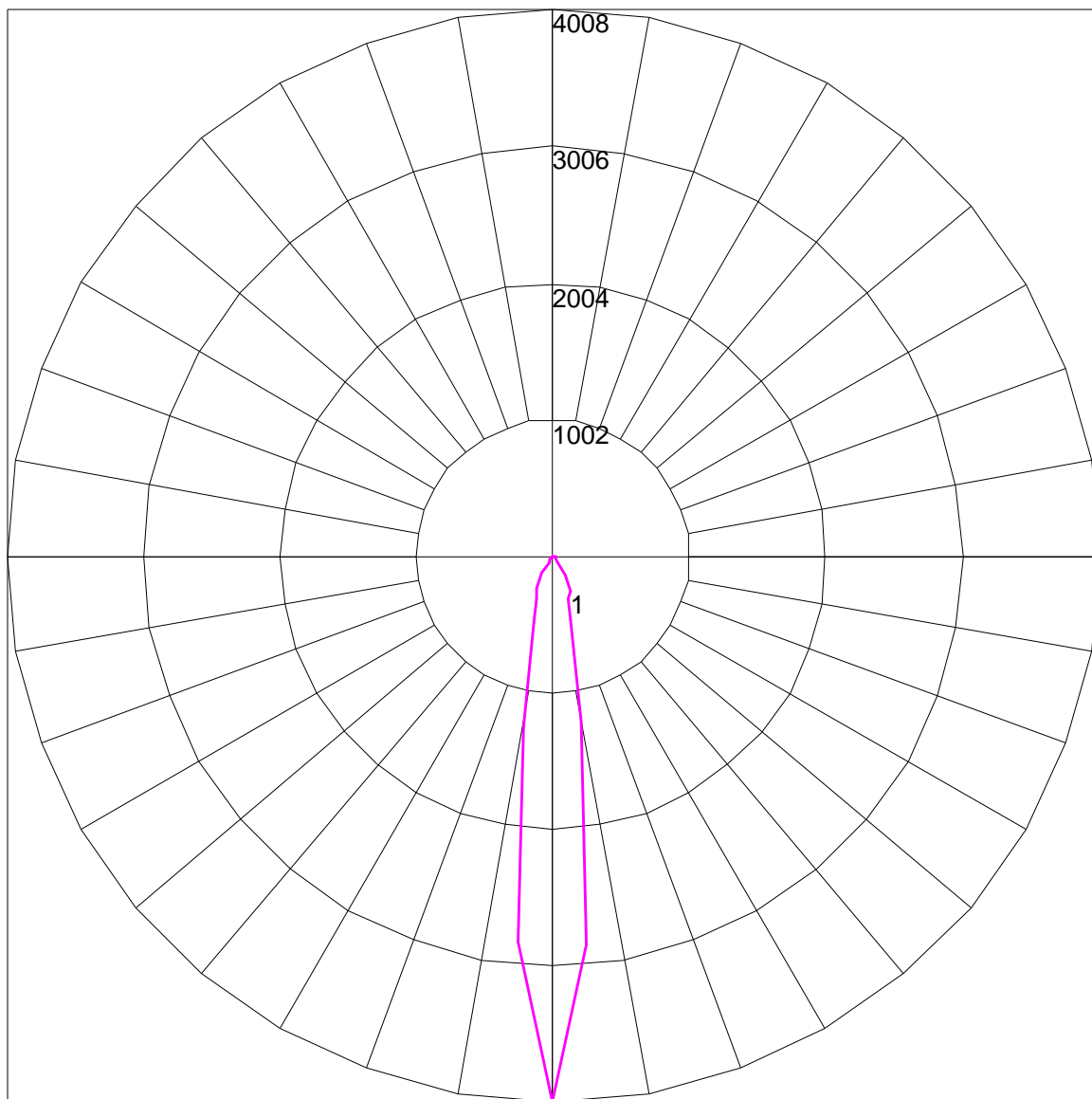
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	92	88	101	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	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75
8	90	82	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	71
10	85	77	73	70	84	77	73	70	76	73	70	76	72	70	75	72	70	69

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POLAR GRAPH



Maximum Candela = 4008.497 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)