

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00640_8 ~ C0205XT-13LXXK-XNEX-SOXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00640_8
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 2/6/2018
 [UPDATE] 2/7/2018
 [LUMCAT] C0205XT-13L-xxK-XN-EX-SO-xx-MW
 [LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Xtra Narrow Beam
 [OTHER] Matte White finish
 [OTHER] Solite Lens
 [OTHER] 19.8 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.38
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_8 ~ C0205XT-13LXXK-XNEX-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19313	15389	17656
55	16165	12916	14923
65	13944	10964	11698
75	6504	5442	6848
85	6669	6673	6983

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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	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219
5	2735.196	2757.432	2695.668	2733.755	2691.690	2845.313	2764.713	2784.986	2712.155	2691.690
10	1622.751	1575.974	1555.616	1563.493	1623.895	1702.093	1678.778	1628.452	1620.505	1530.153
15	845.758	802.972	800.416	805.723	869.324	908.304	900.221	844.623	849.778	780.494
20	504.671	490.694	493.443	495.089	513.707	520.308	525.076	507.736	512.873	492.105
25	345.818	338.556	333.704	340.968	334.435	329.974	344.567	342.716	348.472	356.079
30	219.565	208.997	191.923	203.643	199.609	193.140	200.152	210.219	210.056	214.772
35	115.031	107.838	91.099	97.196	105.075	102.113	100.667	110.622	105.907	96.718
40	60.582	55.185	45.253	49.793	57.965	57.368	59.607	62.038	54.048	47.561
45	39.896	35.817	31.789	32.132	36.473	35.485	37.525	38.950	33.937	32.775
50	32.056	28.702	26.780	24.190	27.128	25.846	27.264	29.927	26.513	27.219
55	27.087	23.548	21.643	21.099	25.006	23.702	24.622	24.455	25.187	23.105
60	22.313	19.157	19.682	17.944	20.343	19.895	18.931	20.038	19.353	22.532
65	17.216	15.219	13.536	13.246	14.443	14.101	14.285	15.486	15.732	16.038
70	10.218	8.877	8.876	9.406	9.754	9.023	9.450	10.483	11.419	11.289
75	4.918	4.272	4.115	4.865	5.178	4.829	4.994	6.011	6.181	6.111
80	2.463	1.688	1.933	1.853	2.313	2.503	1.917	2.318	2.558	2.493
85	1.698	1.484	1.699	2.049	1.778	1.938	1.635	1.528	1.970	1.827
90	0.000	0.000	0.000	0.000	0.000	1.564	1.166	1.351	1.583	1.324
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. 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	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219	3350.219
5	2698.717	2660.694	2678.220	2834.988	2810.402	2800.993	2735.196
10	1569.328	1513.000	1623.108	1683.247	1686.692	1628.059	1622.751
15	801.091	774.668	863.542	881.646	892.967	846.052	845.758
20	495.325	482.868	516.722	530.171	534.408	515.646	504.671
25	356.598	344.810	346.549	367.353	368.110	354.725	345.818
30	223.142	211.284	218.188	235.944	235.490	223.176	219.565
35	111.423	102.045	117.641	123.790	127.118	114.605	115.031
40	54.125	50.537	60.416	65.116	68.226	60.542	60.582
45	33.067	33.229	37.866	40.381	43.043	42.272	39.896

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CANDELA TABULATION - (Cont.)

50	28.759	26.585	28.774	29.695	31.405	33.668	32.056
55	26.370	25.677	24.739	27.269	27.252	28.670	27.087
60	22.257	22.588	22.300	22.912	22.693	23.205	22.313
65	17.607	17.565	18.360	17.138	17.232	17.067	17.216
70	12.961	11.546	13.011	12.297	11.605	10.640	10.218
75	5.372	6.642	6.906	7.237	5.687	6.452	4.918
80	3.261	2.287	2.742	2.879	2.833	2.219	2.463
85	1.568	1.770	1.567	1.302	1.582	1.643	1.698
90	1.474	1.818	1.584	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	485.54	N.A.	60.90
0-30	646.06	N.A.	81.00
0-40	720.75	N.A.	90.40
0-60	773.39	N.A.	97.00
0-80	795.48	N.A.	99.80
0-90	797.26	N.A.	100.00
10-90	568.57	N.A.	71.30
20-40	235.21	N.A.	29.50
20-50	265.61	N.A.	33.30
40-70	68.33	N.A.	8.60
60-80	22.10	N.A.	2.80
70-80	6.40	N.A.	0.80
80-90	1.77	N.A.	0.20
90-110	0.20	N.A.	0.00
90-120	0.20	N.A.	0.00
90-130	0.20	N.A.	0.00
90-150	0.20	N.A.	0.00
90-180	0.20	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	797.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	228.69
10-20	256.85
20-30	160.51
30-40	74.70
40-50	30.40
50-60	22.23
60-70	15.70
70-80	6.40
80-90	1.77
90-100	0.20
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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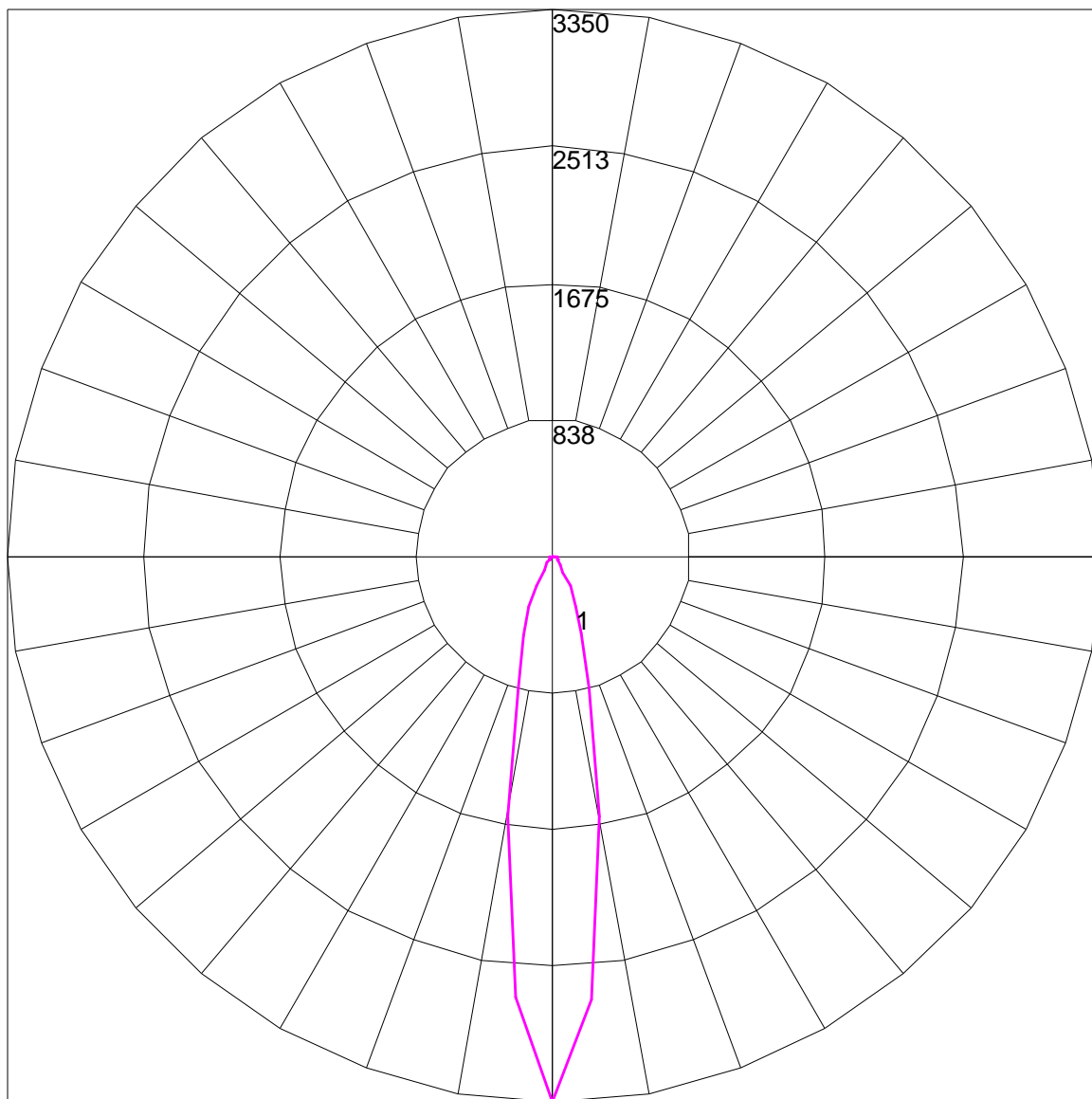
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	94	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	93	85	80	76	91	84	79	76	83	79	75	81	78	75	80	77	74	73
7	89	81	76	73	88	81	76	72	80	75	72	78	75	72	77	74	71	70
8	86	78	73	70	85	78	73	69	77	72	69	76	72	69	75	71	69	67
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	81	73	68	64	80	72	68	64	71	67	64	71	67	64	70	66	64	63

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POLAR GRAPH



Maximum Candela = 3350.219 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)