

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-13LXXK-MDEX-TCY-GLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00629_3_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-13L-xxK-MD-EX-TCY-GL

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Medium Beam

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 21.1 Degree Beam Angle

[OTHER] Aimed at 0 Degrees

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[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 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-13LXXK-MDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11378	12386	11421
55	2100	2090	1875
65	1537	1353	1337
75	2048	2307	2085
85	1833	2108	2036

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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	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447
5	3920.094	4014.519	3950.753	3976.637	3858.018	3750.601	3742.760	3575.704	3599.321	3468.481
10	2524.143	2662.690	2563.842	2607.806	2434.675	2295.888	2288.697	2094.519	2124.274	1994.578
15	1223.249	1323.110	1256.552	1288.543	1171.329	1092.169	1085.053	976.918	1000.468	932.016
20	605.350	646.429	622.098	638.891	592.612	569.634	567.184	535.051	543.931	524.449
25	455.513	463.485	457.489	459.689	449.515	442.266	442.723	437.184	436.671	434.407
30	417.583	420.708	416.231	415.408	411.913	408.394	408.206	405.332	405.692	404.255
35	384.342	391.870	387.141	389.382	380.558	376.099	372.885	359.736	363.904	349.366
40	273.895	294.023	286.366	293.373	274.053	255.032	250.862	224.361	223.014	201.730
45	114.792	127.609	124.960	125.556	115.225	100.346	98.897	84.784	83.567	73.459
50	34.809	39.896	37.361	39.257	32.369	32.068	32.342	27.779	30.427	27.294
55	17.187	17.136	17.108	17.219	15.344	17.389	17.075	15.253	17.079	14.714
60	10.400	11.914	10.494	11.241	11.377	13.557	13.202	12.880	13.322	13.460
65	9.266	8.786	8.157	8.624	8.061	11.886	12.343	12.527	11.729	11.819
70	8.525	7.314	7.756	7.859	8.240	11.739	13.536	13.512	12.046	13.031
75	7.564	7.272	8.521	8.342	7.699	12.314	13.541	13.453	13.406	14.270
80	5.816	7.038	6.610	6.826	6.940	12.192	12.217	12.496	14.133	12.942
85	2.280	2.787	2.621	2.580	2.532	7.701	8.796	7.464	7.805	8.290
90	0.722	0.255	0.849	0.221	0.985	4.285	1.789	5.541	1.914	4.898
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	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447	4395.447
5	3540.116	3465.364	3582.533	3731.944	3753.828	3923.034	3920.094
10	2079.041	2003.066	2132.506	2294.177	2311.433	2533.286	2524.143
15	980.499	936.118	1001.374	1087.657	1093.861	1227.689	1223.249
20	539.607	523.608	545.829	567.440	566.328	608.506	605.350
25	437.000	433.524	440.274	447.498	447.434	455.740	455.513
30	405.428	403.870	409.355	414.039	415.414	419.018	417.583
35	356.742	350.762	371.154	376.723	376.735	389.773	384.342
40	211.641	206.223	224.722	245.182	249.151	277.433	273.895
45	78.455	74.154	76.850	93.349	96.161	112.987	114.792

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50	28.234	27.162	27.401	29.232	30.554	36.653	34.809
55	15.660	15.438	16.172	16.365	16.173	16.909	17.187
60	11.522	12.025	13.292	10.583	10.772	11.782	10.400
65	13.014	11.111	12.114	8.558	9.097	9.787	9.266
70	11.944	12.639	11.853	7.677	8.063	7.656	8.525
75	12.634	12.001	13.148	7.785	7.839	8.716	7.564
80	10.891	11.168	12.339	5.647	7.476	6.805	5.816
85	8.682	6.322	7.410	2.556	2.252	2.883	2.280
90	1.794	5.709	3.622	0.217	0.822	0.448	0.722
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	654.62	N.A.	53.40
0-30	870.24	N.A.	71.00
0-40	1089.76	N.A.	88.90
0-60	1197.78	N.A.	97.70
0-80	1219.23	N.A.	99.50
0-90	1225.22	N.A.	100.00
10-90	911.53	N.A.	74.40
20-40	435.14	N.A.	35.50
20-50	526.07	N.A.	42.90
40-70	118.70	N.A.	9.70
60-80	21.45	N.A.	1.70
70-80	10.77	N.A.	0.90
80-90	5.99	N.A.	0.50
90-110	0.58	N.A.	0.00
90-120	0.58	N.A.	0.00
90-130	0.58	N.A.	0.00
90-150	0.58	N.A.	0.00
90-180	0.58	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1225.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	313.69
10-20	340.93
20-30	215.62
30-40	219.52
40-50	90.93
50-60	17.09
60-70	10.68
70-80	10.77
80-90	5.99
90-100	0.58
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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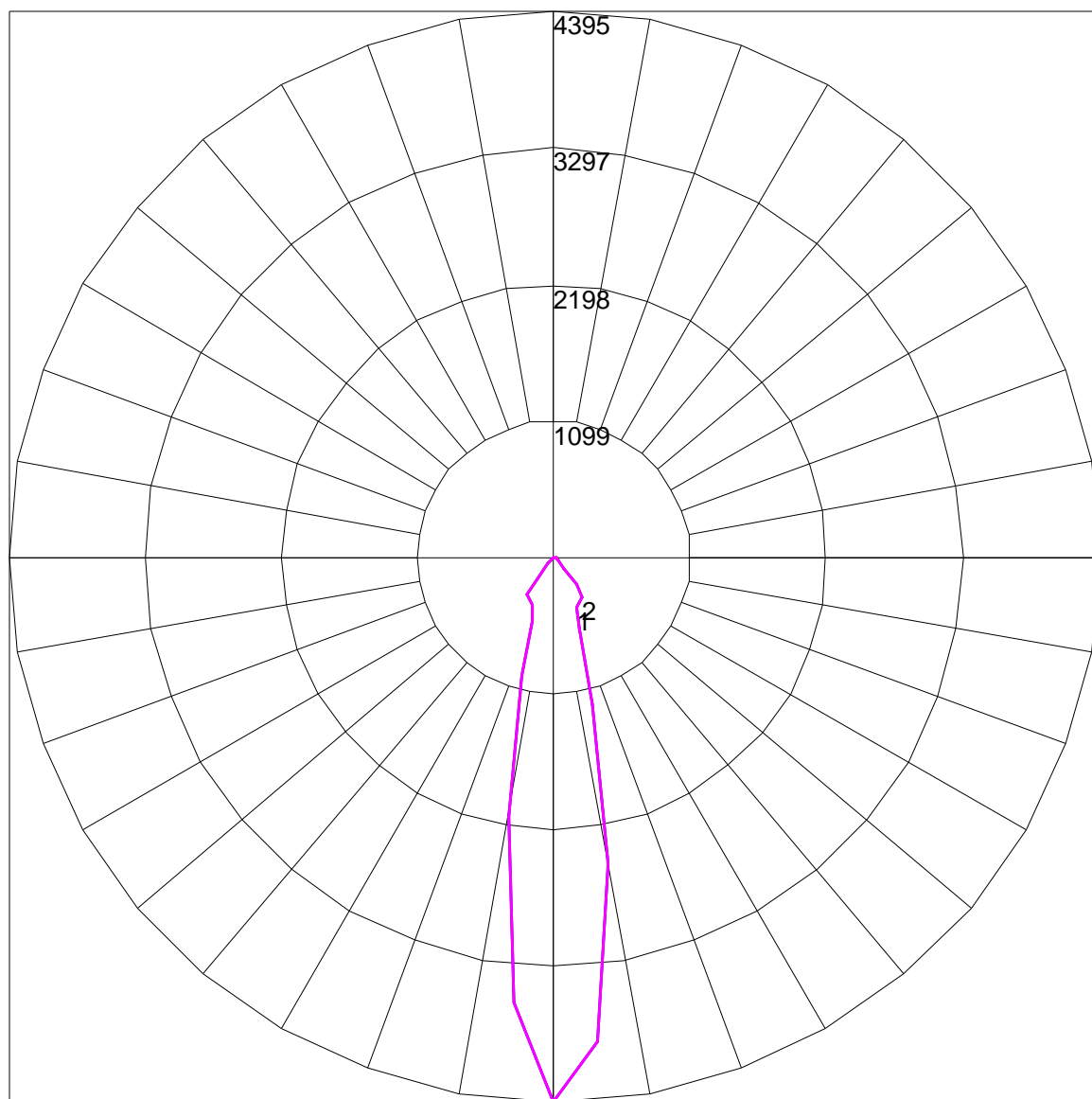
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	63
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 4395.447 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)