

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-13LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-13L-xxK-ND-EX-TCY-NL

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

[OTHER] Internal Reflector, Narrow Beam

[OTHER] No Lens

[OTHER] 19.9 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	1179
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36
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 ~ C1216XT-13LXXK-NDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17758	18558	18673
55	7058	6461	5880
65	1192	1369	1171
75	1317	1509	1391
85	1763	1958	2001

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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	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663
5	3110.823	3193.568	3132.083	3149.887	3036.742	2943.301	2917.128	2764.347	2777.597	2668.284
10	1900.041	2009.300	1933.436	1968.632	1829.328	1718.664	1686.840	1517.483	1539.143	1435.376
15	932.639	993.061	948.510	978.192	892.270	838.664	821.479	743.280	752.847	708.663
20	559.797	576.405	564.249	573.466	544.575	529.126	524.269	507.003	508.913	499.907
25	474.048	479.387	477.295	477.858	473.005	466.413	463.134	459.456	458.744	459.957
30	448.178	455.208	454.110	453.923	451.136	446.646	442.328	436.066	437.125	438.386
35	415.763	425.725	424.280	427.269	416.205	407.173	399.683	380.798	382.665	370.163
40	305.777	325.995	321.371	331.971	312.178	288.765	276.890	248.226	240.914	225.558
45	179.162	191.123	187.233	196.587	188.397	174.245	166.369	151.506	144.413	141.460
50	119.464	121.291	112.517	121.330	114.129	110.377	110.294	107.300	106.384	107.946
55	57.763	60.296	52.876	54.171	48.121	46.144	48.465	46.581	47.814	47.543
60	15.127	17.561	15.927	15.215	12.964	13.794	14.226	14.868	15.533	14.937
65	7.185	6.363	8.258	7.024	7.060	8.131	9.507	10.732	9.251	9.882
70	5.157	4.001	6.280	5.899	5.252	9.230	9.793	9.054	8.873	9.119
75	4.864	5.066	5.572	5.159	5.135	8.994	10.208	9.335	9.581	11.235
80	4.771	4.308	4.765	4.296	4.051	9.181	9.509	10.345	9.381	8.964
85	2.192	2.645	2.435	2.699	2.488	7.948	7.208	7.925	7.422	7.217
90	0.633	0.363	0.789	0.385	0.628	4.966	1.517	4.262	1.562	5.088
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	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663	3527.663
5	2740.320	2688.098	2804.201	2950.981	2976.667	3127.308	3110.823
10	1506.954	1461.239	1576.515	1721.290	1753.767	1921.988	1900.041
15	738.376	715.502	770.062	837.514	856.772	946.334	932.639
20	505.624	502.011	515.076	531.932	535.791	562.476	559.797
25	460.440	462.311	463.454	468.057	467.098	473.976	474.048
30	440.827	440.895	443.227	445.078	442.274	446.637	448.178
35	381.876	374.652	393.784	402.173	402.567	416.869	415.763
40	233.085	229.759	247.506	267.530	276.612	303.456	305.777
45	139.976	136.834	143.129	153.518	160.812	173.331	179.162

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**CANDELA TABULATION - (Cont.)**

50	108.525	104.694	110.820	113.346	111.907	121.449	119.464
55	49.875	48.569	52.112	54.607	50.140	59.327	57.763
60	16.140	13.665	14.862	13.769	13.027	15.513	15.127
65	10.084	9.342	10.513	5.582	6.364	6.214	7.185
70	9.293	8.207	8.094	5.294	5.802	5.315	5.157
75	9.535	8.698	9.494	4.122	4.770	4.728	4.864
80	8.701	9.265	9.343	3.554	3.761	4.180	4.771
85	6.388	6.911	7.622	2.250	2.451	2.589	2.192
90	2.029	4.911	4.114	0.202	0.870	0.390	0.633
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	508.99	N.A.	43.20
0-30	729.57	N.A.	61.90
0-40	967.43	N.A.	82.10
0-60	1156.14	N.A.	98.10
0-80	1173.18	N.A.	99.50
0-90	1178.25	N.A.	100.00
10-90	934.49	N.A.	79.30
20-40	458.44	N.A.	38.90
20-50	596.13	N.A.	50.60
40-70	198.21	N.A.	16.80
60-80	17.03	N.A.	1.40
70-80	7.54	N.A.	0.60
80-90	5.07	N.A.	0.40
90-110	0.56	N.A.	0.00
90-120	0.56	N.A.	0.00
90-130	0.56	N.A.	0.00
90-150	0.56	N.A.	0.00
90-180	0.56	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1178.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	243.76
10-20	265.23
20-30	220.58
30-40	237.87
40-50	137.69
50-60	51.02
60-70	9.50
70-80	7.54
80-90	5.07
90-100	0.56
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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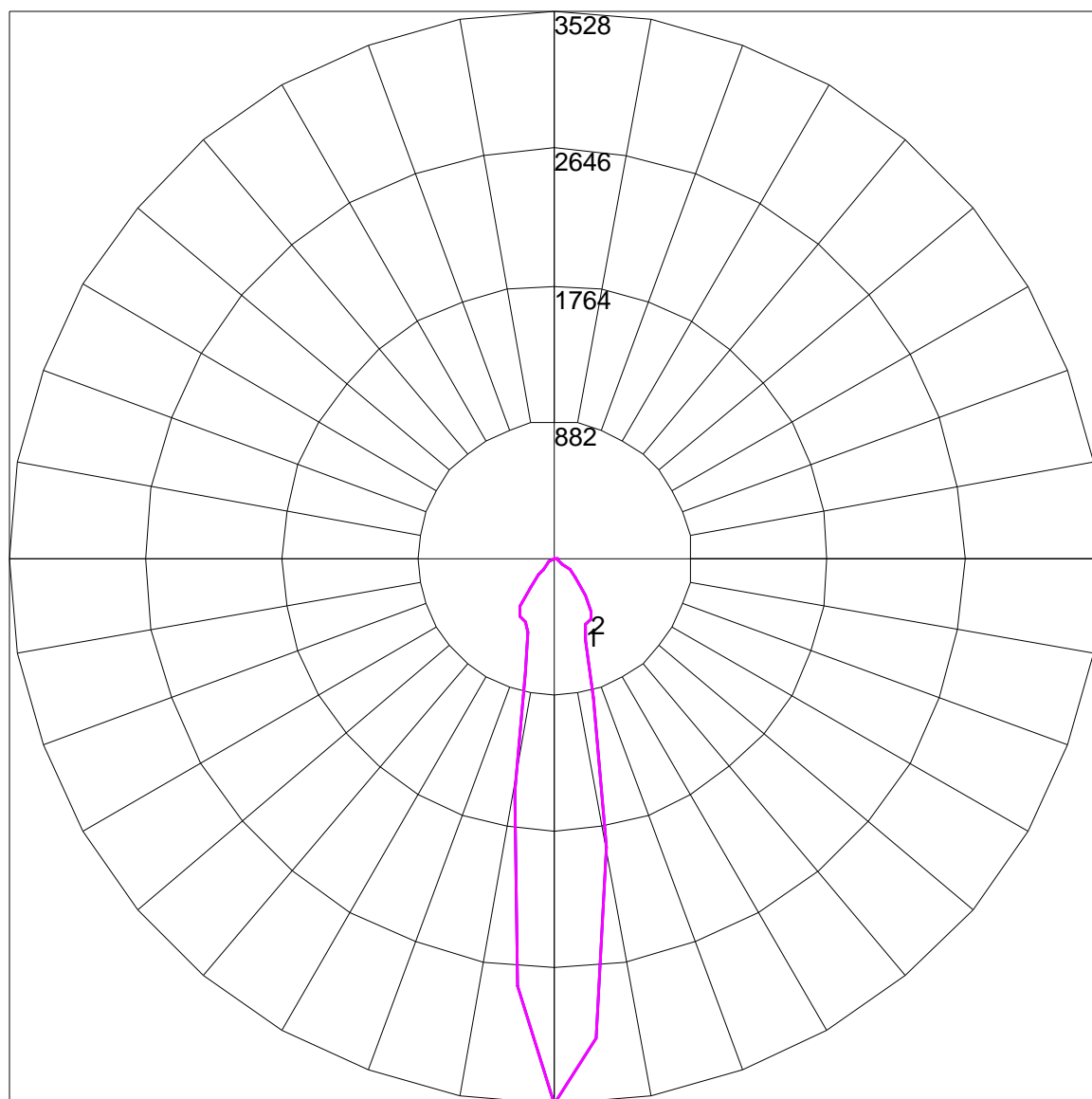
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 3527.663 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)