

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_1 ~ C1216XT-13LXXK-NDEX-TCY-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_1\_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-SO  
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Narrow Beam  
 [OTHER] Solite Lens, Flush with Lower Trim  
 [OTHER] 25.1 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	1160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.48
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\_1 ~ C1216XT-13LXXK-NDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16008	16102	16416
55	7196	7121	7509
65	4177	4262	4512
75	3466	3686	3523
85	2203	2502	2710

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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>	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154
<b>5</b>	2182.771	2238.871	2188.784	2232.795	2204.370	2200.322	2225.645	2182.536	2238.651	2195.999
<b>10</b>	1534.645	1579.604	1516.613	1576.919	1528.630	1510.186	1566.262	1517.160	1584.767	1525.847
<b>15</b>	969.238	982.270	952.572	987.171	955.489	932.112	964.132	954.886	981.009	939.739
<b>20</b>	645.502	638.507	637.304	655.180	636.113	615.713	627.603	638.911	639.140	613.708
<b>25</b>	504.504	499.416	502.392	508.398	499.688	488.254	490.018	497.995	492.567	481.288
<b>30</b>	432.285	438.024	435.784	440.213	432.871	428.435	428.628	424.372	421.249	412.538
<b>35</b>	350.872	362.704	356.211	365.631	354.249	350.182	352.694	339.818	342.168	330.339
<b>40</b>	252.693	261.321	254.640	262.788	256.699	254.572	251.546	239.749	245.249	238.437
<b>45</b>	161.505	166.998	162.461	166.466	165.621	166.545	164.338	157.138	159.418	155.200
<b>50</b>	97.840	97.115	96.847	101.448	100.708	100.414	99.725	99.737	101.872	96.089
<b>55</b>	58.892	58.975	58.275	60.223	61.450	60.740	61.665	61.603	63.516	61.565
<b>60</b>	37.513	37.530	37.765	36.797	39.407	42.123	41.171	41.393	42.357	41.443
<b>65</b>	25.186	26.516	25.700	25.696	27.210	31.302	30.792	30.150	29.566	31.351
<b>70</b>	19.001	18.983	18.733	19.505	18.907	23.824	25.259	23.136	24.029	24.002
<b>75</b>	12.798	13.469	13.612	13.525	13.010	18.146	19.743	17.686	18.793	18.230
<b>80</b>	8.111	8.013	8.026	8.658	8.966	15.438	15.123	14.539	14.574	14.094
<b>85</b>	2.740	2.815	3.112	2.689	3.370	9.085	9.193	8.766	8.914	9.379
<b>90</b>	0.694	0.602	0.918	1.038	1.203	4.702	4.233	4.694	3.802	5.620
<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>	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154	2526.154
<b>5</b>	2274.489	2206.396	2255.925	2257.068	2189.845	2253.244	2182.771
<b>10</b>	1591.651	1537.935	1565.606	1564.596	1532.228	1590.082	1534.645
<b>15</b>	962.806	952.727	950.719	944.552	950.292	984.077	969.238
<b>20</b>	617.071	626.288	617.757	609.939	625.935	641.236	645.502
<b>25</b>	483.360	490.530	487.041	481.931	491.202	501.417	504.504
<b>30</b>	419.429	415.597	419.067	422.072	421.803	432.543	432.285
<b>35</b>	339.103	333.857	339.176	342.222	342.304	355.319	350.872
<b>40</b>	244.428	237.864	245.690	249.889	247.801	256.662	252.693
<b>45</b>	158.776	154.172	158.330	161.757	160.740	162.724	161.505

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50	98.113	98.898	97.360	96.947	97.225	98.330	97.840
55	64.222	62.459	62.917	57.817	59.265	60.674	58.892
60	42.929	42.052	42.087	38.876	38.521	39.108	37.513
65	30.737	30.385	29.597	27.401	26.205	26.461	25.186
70	23.738	22.513	22.525	19.650	18.516	18.710	19.001
75	19.038	17.681	17.721	11.278	13.907	12.898	12.798
80	13.968	13.989	13.228	7.950	8.055	7.810	8.111
85	8.992	8.174	7.740	2.378	2.633	2.985	2.740
90	4.358	4.828	4.416	0.834	0.913	0.839	0.694
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	471.76	N.A.	40.70
0-30	706.12	N.A.	60.90
0-40	919.73	N.A.	79.30
0-60	1106.48	N.A.	95.40
0-80	1152.62	N.A.	99.30
0-90	1159.6	N.A.	99.90
10-90	967.92	N.A.	83.40
20-40	447.98	N.A.	38.60
20-50	576.70	N.A.	49.70
40-70	215.98	N.A.	18.60
60-80	46.13	N.A.	4.00
70-80	16.91	N.A.	1.50
80-90	6.98	N.A.	0.60
90-110	0.75	N.A.	0.10
90-120	0.75	N.A.	0.10
90-130	0.75	N.A.	0.10
90-150	0.75	N.A.	0.10
90-180	0.75	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1160.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	191.68
10-20	280.08
20-30	234.36
30-40	213.61
40-50	128.72
50-60	58.03
60-70	29.23
70-80	16.91
80-90	6.98
90-100	0.75
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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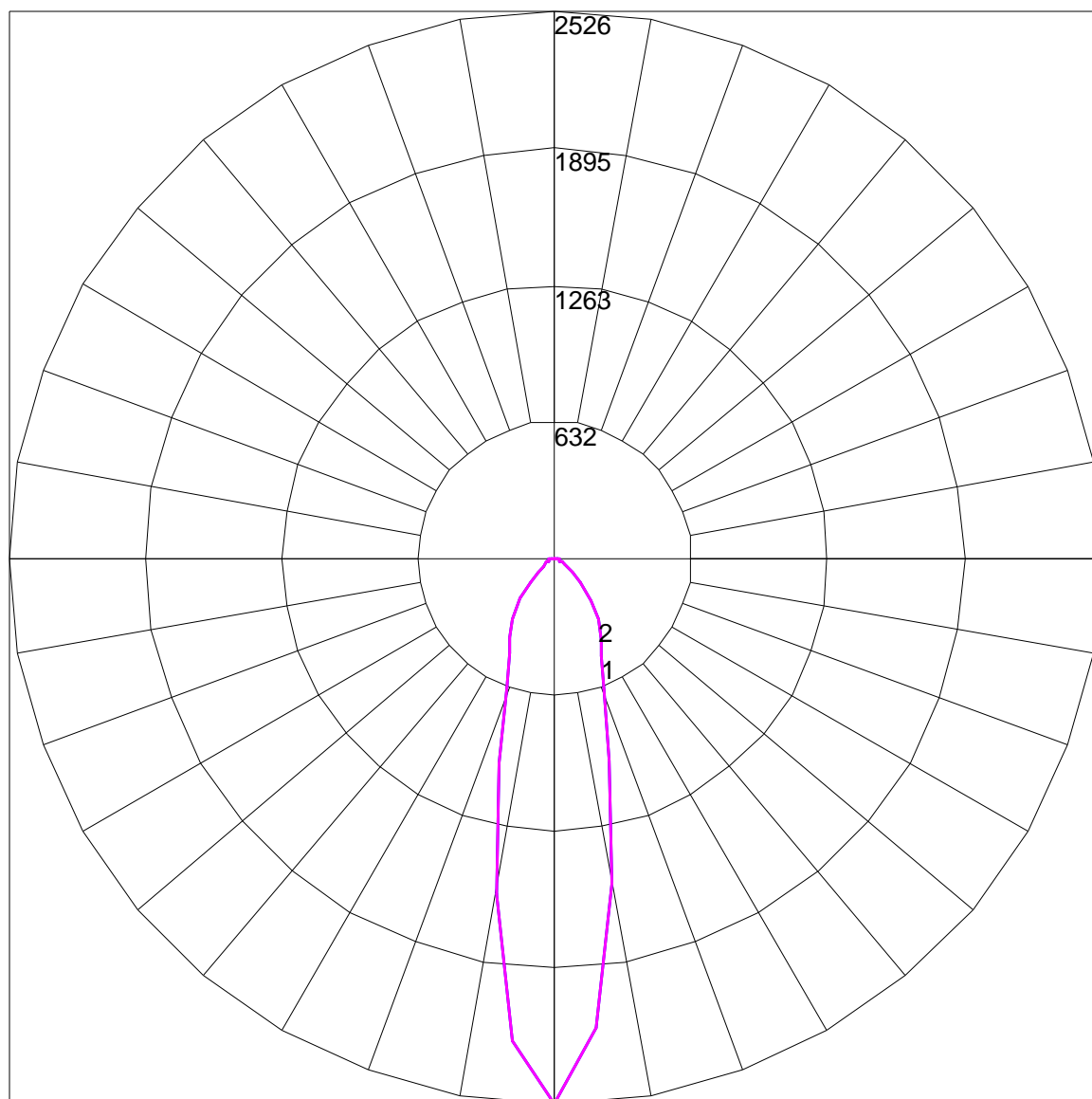
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 2526.154 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)