

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_8 ~ C1216XT-13LXXK-WDEX-TCY-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_8\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 9/20/2017  
 [UPDATE] 4/9/2018  
 [LUMCAT] C1216XT-13L-xxK-WD-EX-TCY-GL  
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Wide Beam  
 [OTHER] Clear Glass Lens, Flush with Lower Trim  
 [OTHER] 40.2 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	1203
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.70
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\_8 ~ C1216XT-13LXXK-WDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11177	13141	11693
55	2713	2607	2623
65	2706	2804	2855
75	3565	3947	4008
85	3436	4619	3891

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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>	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022
<b>5</b>	1818.651	1839.454	1837.282	1832.417	1802.360	1753.041	1737.341	1694.841	1684.381	1653.442
<b>10</b>	1608.094	1648.423	1639.806	1643.062	1591.656	1522.930	1504.187	1443.879	1427.257	1383.506
<b>15</b>	1308.866	1353.572	1339.791	1352.889	1302.427	1233.995	1223.037	1162.933	1147.209	1102.375
<b>20</b>	993.818	1034.415	1017.892	1032.098	986.880	927.656	925.095	876.096	865.656	828.770
<b>25</b>	710.840	741.534	723.962	735.229	707.215	665.527	665.556	632.816	626.671	600.303
<b>30</b>	512.325	529.711	519.974	527.773	515.021	491.198	492.423	474.451	472.026	456.943
<b>35</b>	406.554	418.486	410.910	418.681	406.445	390.920	394.950	375.332	375.127	355.923
<b>40</b>	283.595	309.362	304.198	322.023	289.809	251.712	249.855	219.890	215.537	192.362
<b>45</b>	112.763	130.309	132.581	125.937	117.975	90.322	81.693	70.660	66.945	58.612
<b>50</b>	31.507	37.314	30.705	32.819	28.605	27.774	28.007	25.732	23.990	23.833
<b>55</b>	22.203	21.473	21.339	21.278	21.470	22.804	21.901	23.173	21.860	22.074
<b>60</b>	18.984	18.680	18.751	17.811	18.566	20.207	20.467	20.973	20.611	20.480
<b>65</b>	16.319	17.131	16.910	17.248	17.214	18.999	20.073	19.539	18.339	18.958
<b>70</b>	14.669	15.348	15.311	14.707	15.663	19.557	18.961	19.866	18.570	19.826
<b>75</b>	13.166	15.392	14.576	13.837	14.801	19.160	18.934	19.590	18.829	18.991
<b>80</b>	10.115	11.486	11.428	10.742	11.346	16.962	16.724	15.814	17.137	16.511
<b>85</b>	4.273	5.755	5.744	6.023	4.839	11.185	11.232	10.758	10.727	10.365
<b>90</b>	0.939	0.717	0.847	0.528	1.001	6.558	4.649	5.846	6.050	6.002
<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>	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022	1847.022
<b>5</b>	1665.197	1661.714	1704.494	1755.312	1769.461	1806.308	1818.651
<b>10</b>	1394.974	1386.119	1440.731	1509.154	1527.884	1591.188	1608.094
<b>15</b>	1115.280	1101.613	1151.803	1215.076	1229.632	1293.270	1308.866
<b>20</b>	838.804	831.305	869.729	924.386	932.135	984.990	993.818
<b>25</b>	601.920	597.289	623.143	664.721	667.604	706.179	710.840
<b>30</b>	456.124	451.215	463.826	487.661	488.466	508.956	512.325
<b>35</b>	370.397	349.528	378.531	393.251	390.751	407.891	406.554
<b>40</b>	196.721	193.042	216.138	250.764	254.833	282.693	283.595
<b>45</b>	48.042	53.506	53.981	83.705	91.237	107.456	112.763

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<b>50</b>	25.587	25.318	25.690	28.975	26.119	31.683	31.507
<b>55</b>	21.428	22.220	22.858	21.057	21.107	21.978	22.203
<b>60</b>	19.755	20.388	20.324	19.005	17.958	19.434	18.984
<b>65</b>	19.552	19.503	19.138	17.059	16.998	17.184	16.319
<b>70</b>	19.411	19.096	18.703	14.874	14.894	14.845	14.669
<b>75</b>	18.732	18.115	18.742	13.652	12.931	13.563	13.166
<b>80</b>	16.337	15.926	17.112	10.185	10.967	10.370	10.115
<b>85</b>	10.228	10.656	10.757	3.901	4.352	4.539	4.273
<b>90</b>	4.698	6.696	4.064	0.735	0.697	0.878	0.939
<b>95</b>	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
<b>105</b>	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
<b>115</b>	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
<b>125</b>	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
<b>135</b>	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
<b>145</b>	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
<b>155</b>	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
<b>165</b>	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
<b>175</b>	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

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Zone	Lumens	%Lamp	%Fixt
0-20	500.37	N.A.	41.60
0-30	814.26	N.A.	67.70
0-40	1051.11	N.A.	87.40
0-60	1158.51	N.A.	96.30
0-80	1193.43	N.A.	99.20
0-90	1202.3	N.A.	99.90
10-90	1042.4	N.A.	86.60
20-40	550.74	N.A.	45.80
20-50	637.64	N.A.	53.00
40-70	125.48	N.A.	10.40
60-80	34.93	N.A.	2.90
70-80	16.84	N.A.	1.40
80-90	8.87	N.A.	0.70
90-110	0.87	N.A.	0.10
90-120	0.87	N.A.	0.10
90-130	0.87	N.A.	0.10
90-150	0.87	N.A.	0.10
90-180	0.87	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1203.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	159.90
10-20	340.47
20-30	313.89
30-40	236.85
40-50	86.90
50-60	20.50
60-70	18.09
70-80	16.84
80-90	8.87
90-100	0.87
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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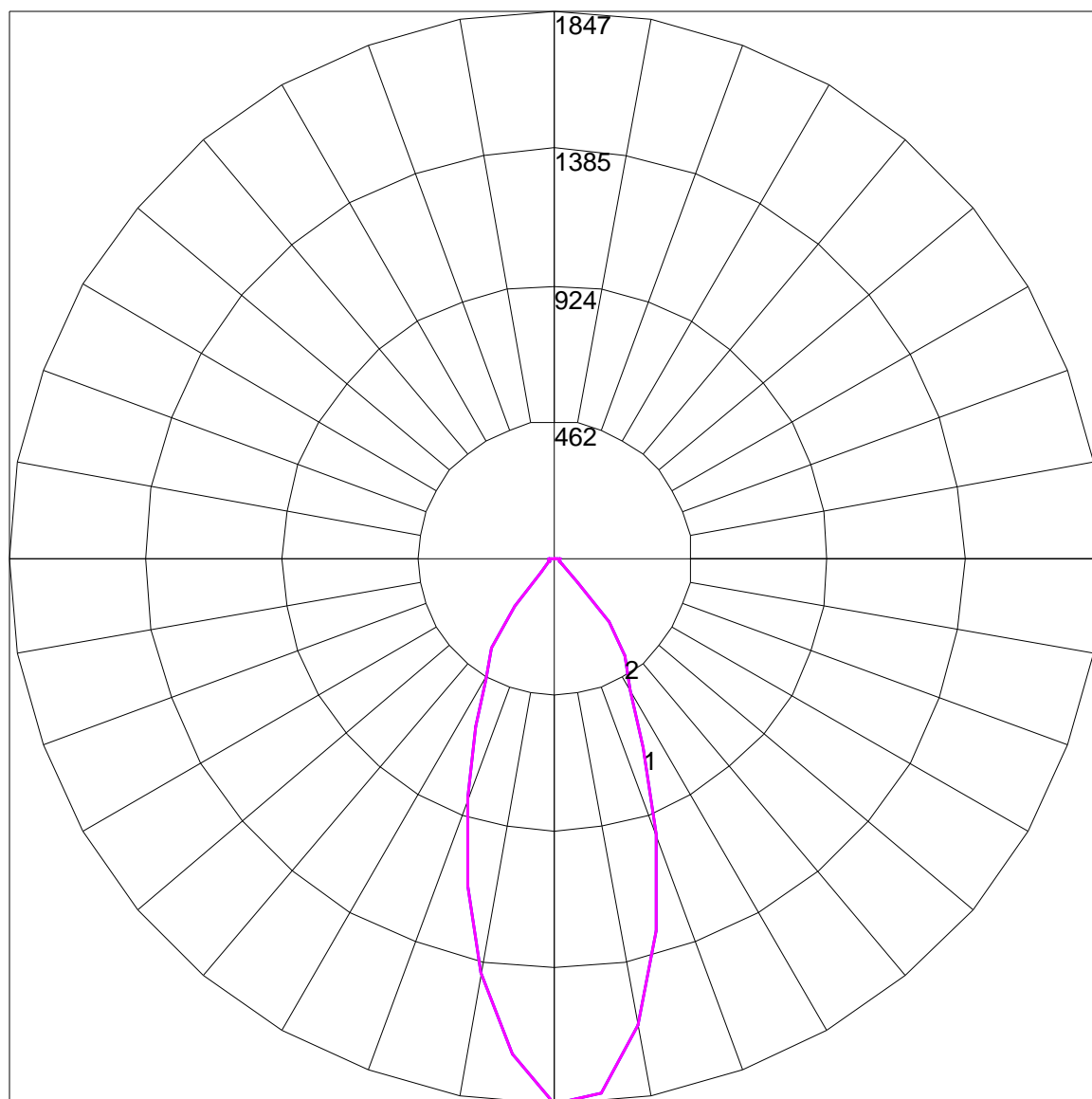
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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POLAR GRAPH



Maximum Candela = 1847.022 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)