

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_7 ~ C1216XT-20LXXK-WDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_7\_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-20L-xxK-WD-EX-TCY-NL

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

[OTHER] Internal Reflector, Wide Beam

[OTHER] No lens

[OTHER] 38.0 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	1905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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\_7 ~ C1216XT-20LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14309	16904	15908
55	2601	2759	2626
65	2898	3013	3240
75	3549	3810	3874
85	6888	5835	6346

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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>	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548
<b>5</b>	3081.308	3122.180	3105.819	3109.661	3056.548	2981.774	2987.251	2913.904	2918.145	2859.132
<b>10</b>	2675.190	2744.368	2710.042	2725.964	2634.958	2521.087	2512.836	2418.925	2414.952	2337.779
<b>15</b>	2138.463	2220.446	2179.529	2201.597	2105.634	1991.650	1981.464	1890.015	1878.549	1810.716
<b>20</b>	1583.833	1666.425	1635.640	1668.741	1592.016	1498.456	1492.902	1409.768	1399.593	1333.229
<b>25</b>	1118.253	1185.287	1166.756	1207.470	1152.958	1082.220	1079.302	1011.481	1004.451	953.512
<b>30</b>	820.723	858.638	853.567	878.900	847.384	801.591	794.407	760.409	751.898	727.820
<b>35</b>	662.806	678.625	686.745	694.375	678.366	644.984	627.499	607.022	586.692	564.218
<b>40</b>	436.522	488.458	486.531	500.902	457.642	395.150	402.413	329.478	332.405	269.189
<b>45</b>	144.363	195.650	170.544	210.907	160.499	122.056	118.369	88.704	81.627	66.381
<b>50</b>	31.396	31.352	38.257	37.037	34.367	28.151	26.263	24.113	25.510	24.385
<b>55</b>	21.284	20.888	22.581	22.294	21.495	23.489	24.573	23.603	24.143	22.526
<b>60</b>	20.023	18.773	19.750	20.408	20.591	22.878	23.709	24.185	23.448	22.674
<b>65</b>	17.476	17.770	18.168	17.456	19.540	22.550	22.576	23.766	23.527	22.874
<b>70</b>	13.480	15.828	16.175	15.285	16.357	23.021	22.366	22.268	22.284	20.384
<b>75</b>	13.107	13.356	14.070	15.043	14.305	22.136	22.739	21.540	22.575	22.038
<b>80</b>	11.145	13.031	11.769	11.827	12.635	21.280	21.596	22.290	24.535	22.701
<b>85</b>	8.566	7.966	7.256	9.170	7.892	18.266	18.698	16.850	17.982	16.898
<b>90</b>	1.428	0.728	1.587	0.786	1.935	10.997	6.691	10.331	6.362	11.700
<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>	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548	3180.548
<b>5</b>	2888.285	2852.219	2922.447	3003.964	3015.890	3069.237	3081.308
<b>10</b>	2368.567	2330.893	2421.032	2544.232	2560.529	2658.012	2675.190
<b>15</b>	1824.938	1797.783	1876.403	1996.696	2012.863	2119.263	2138.463
<b>20</b>	1353.251	1315.251	1381.643	1478.039	1480.203	1572.178	1583.833
<b>25</b>	960.180	937.696	980.213	1047.615	1046.712	1111.676	1118.253
<b>30</b>	725.989	718.053	738.034	775.669	777.211	814.803	820.723
<b>35</b>	561.604	547.831	572.597	612.657	631.853	646.344	662.806
<b>40</b>	293.439	258.050	313.694	373.620	371.376	432.198	436.522
<b>45</b>	57.604	62.717	73.684	105.836	101.992	147.282	144.363

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<b>50</b>	25.275	23.985	24.789	22.621	26.881	24.863	31.396
<b>55</b>	22.519	22.273	23.169	20.989	21.197	19.701	21.284
<b>60</b>	22.112	21.894	21.642	18.481	18.470	20.077	20.023
<b>65</b>	21.720	20.524	20.224	15.417	16.190	18.494	17.476
<b>70</b>	20.864	19.392	20.434	13.379	13.925	14.585	13.480
<b>75</b>	21.422	21.246	20.950	12.630	11.954	14.123	13.107
<b>80</b>	22.060	22.272	21.696	10.743	11.919	9.908	11.145
<b>85</b>	16.113	18.168	17.258	6.329	6.289	7.755	8.566
<b>90</b>	7.424	11.979	13.967	0.677	1.057	0.760	1.428
<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	828.65	N.A.	43.50
0-30	1331.64	N.A.	69.90
0-40	1708.45	N.A.	89.70
0-60	1852.37	N.A.	97.20
0-80	1890.63	N.A.	99.20
0-90	1903.62	N.A.	99.90
10-90	1632.02	N.A.	85.70
20-40	879.80	N.A.	46.20
20-50	1002.72	N.A.	52.60
40-70	163.54	N.A.	8.60
60-80	38.26	N.A.	2.00
70-80	18.64	N.A.	1.00
80-90	12.99	N.A.	0.70
90-110	1.51	N.A.	0.10
90-120	1.51	N.A.	0.10
90-130	1.51	N.A.	0.10
90-150	1.51	N.A.	0.10
90-180	1.51	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1905.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	271.60
10-20	557.05
20-30	502.99
30-40	376.81
40-50	122.92
50-60	21.01
60-70	19.61
70-80	18.64
80-90	12.99
90-100	1.51
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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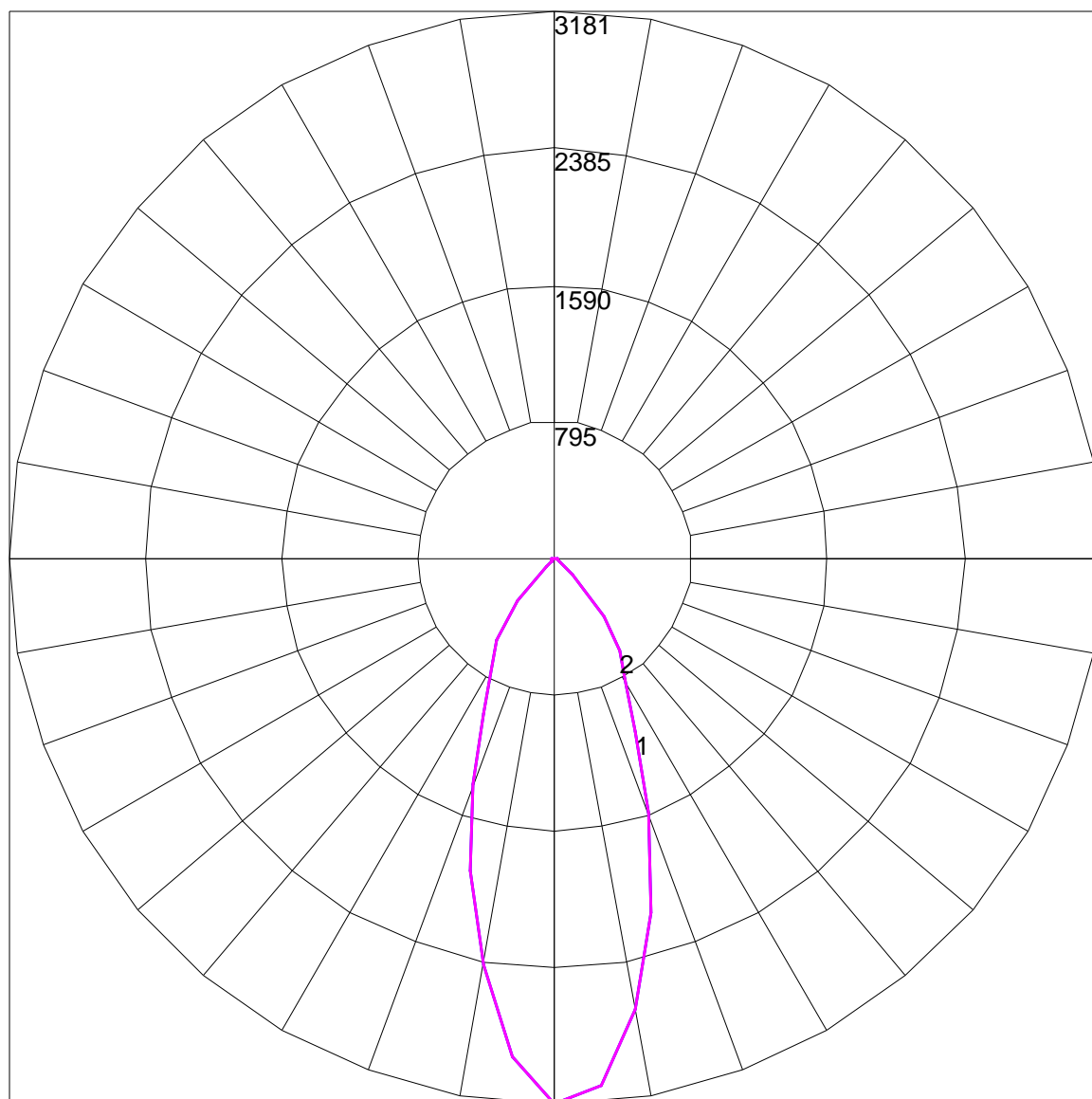
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 3180.548 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)