

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_3\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-10L-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	910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	9.1
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-10LXXK-MDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8445	9193	8477
55	1559	1552	1392
65	1140	1004	992
75	1520	1713	1547
85	1361	1564	1511

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES**

**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>	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349
<b>5</b>	2909.537	2979.620	2932.292	2951.504	2863.463	2783.737	2777.917	2653.927	2671.456	2574.345
<b>10</b>	1873.447	1976.277	1902.912	1935.542	1807.043	1704.033	1698.696	1554.575	1576.659	1480.397
<b>15</b>	907.909	982.027	932.626	956.371	869.374	810.620	805.338	725.079	742.558	691.752
<b>20</b>	449.298	479.787	461.728	474.192	439.843	422.789	420.970	397.120	403.712	389.252
<b>25</b>	338.087	344.003	339.553	341.186	333.635	328.255	328.594	324.483	324.102	322.421
<b>30</b>	309.935	312.254	308.931	308.320	305.726	303.114	302.975	300.842	301.109	300.042
<b>35</b>	285.263	290.851	287.341	289.004	282.455	279.145	276.759	267.000	270.094	259.303
<b>40</b>	203.288	218.227	212.544	217.745	203.405	189.287	186.193	166.523	165.524	149.726
<b>45</b>	85.200	94.713	92.747	93.189	85.521	74.478	73.402	62.927	62.024	54.522
<b>50</b>	25.835	29.611	27.730	29.137	24.024	23.801	24.005	20.618	22.583	20.258
<b>55</b>	12.757	12.719	12.698	12.780	11.388	12.906	12.674	11.321	12.676	10.921
<b>60</b>	7.719	8.843	7.789	8.343	8.444	10.062	9.799	9.560	9.888	9.991
<b>65</b>	6.877	6.521	6.054	6.401	5.983	8.822	9.161	9.297	8.705	8.772
<b>70</b>	6.327	5.429	5.756	5.833	6.116	8.712	10.046	10.029	8.940	9.672
<b>75</b>	5.614	5.397	6.325	6.192	5.714	9.140	10.050	9.985	9.950	10.591
<b>80</b>	4.317	5.224	4.906	5.066	5.151	9.049	9.068	9.274	10.490	9.606
<b>85</b>	1.692	2.069	1.945	1.915	1.879	5.716	6.528	5.540	5.793	6.153
<b>90</b>	0.536	0.189	0.630	0.164	0.731	3.180	1.328	4.112	1.421	3.635
<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>	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349	3262.349
<b>5</b>	2627.513	2572.031	2658.995	2769.890	2786.132	2911.718	2909.537
<b>10</b>	1543.087	1486.697	1582.769	1702.763	1715.571	1880.232	1873.447
<b>15</b>	727.737	694.797	743.231	807.271	811.876	911.204	907.909
<b>20</b>	400.502	388.628	405.120	421.160	420.335	451.640	449.298
<b>25</b>	324.346	321.766	326.776	332.138	332.090	338.255	338.087
<b>30</b>	300.913	299.757	303.827	307.304	308.325	311.000	309.935
<b>35</b>	264.778	260.339	275.474	279.608	279.617	289.294	285.263
<b>40</b>	157.082	153.061	166.791	181.977	184.923	205.914	203.288
<b>45</b>	58.230	55.038	57.039	69.285	71.371	83.860	85.200

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES****CANDELA TABULATION - (Cont.)**

50	20.956	20.160	20.337	21.696	22.677	27.204	25.835
55	11.623	11.458	12.003	12.146	12.004	12.550	12.757
60	8.552	8.925	9.865	7.855	7.995	8.745	7.719
65	9.659	8.246	8.991	6.352	6.752	7.264	6.877
70	8.865	9.381	8.798	5.698	5.984	5.682	6.327
75	9.377	8.907	9.759	5.778	5.818	6.469	5.614
80	8.083	8.289	9.158	4.191	5.549	5.051	4.317
85	6.444	4.692	5.500	1.897	1.672	2.140	1.692
90	1.332	4.237	2.688	0.161	0.610	0.333	0.536
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	485.87	N.A.	53.40
0-30	645.90	N.A.	71.00
0-40	808.83	N.A.	88.90
0-60	889.01	N.A.	97.70
0-80	904.93	N.A.	99.50
0-90	909.37	N.A.	100.00
10-90	676.55	N.A.	74.40
20-40	322.97	N.A.	35.50
20-50	390.46	N.A.	42.90
40-70	88.10	N.A.	9.70
60-80	15.92	N.A.	1.70
70-80	8.00	N.A.	0.90
80-90	4.44	N.A.	0.50
90-110	0.43	N.A.	0.00
90-120	0.43	N.A.	0.00
90-130	0.43	N.A.	0.00
90-150	0.43	N.A.	0.00
90-180	0.43	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	909.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	232.82
10-20	253.04
20-30	160.04
30-40	162.93
40-50	67.49
50-60	12.69
60-70	7.92
70-80	8.00
80-90	4.44
90-100	0.43
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES

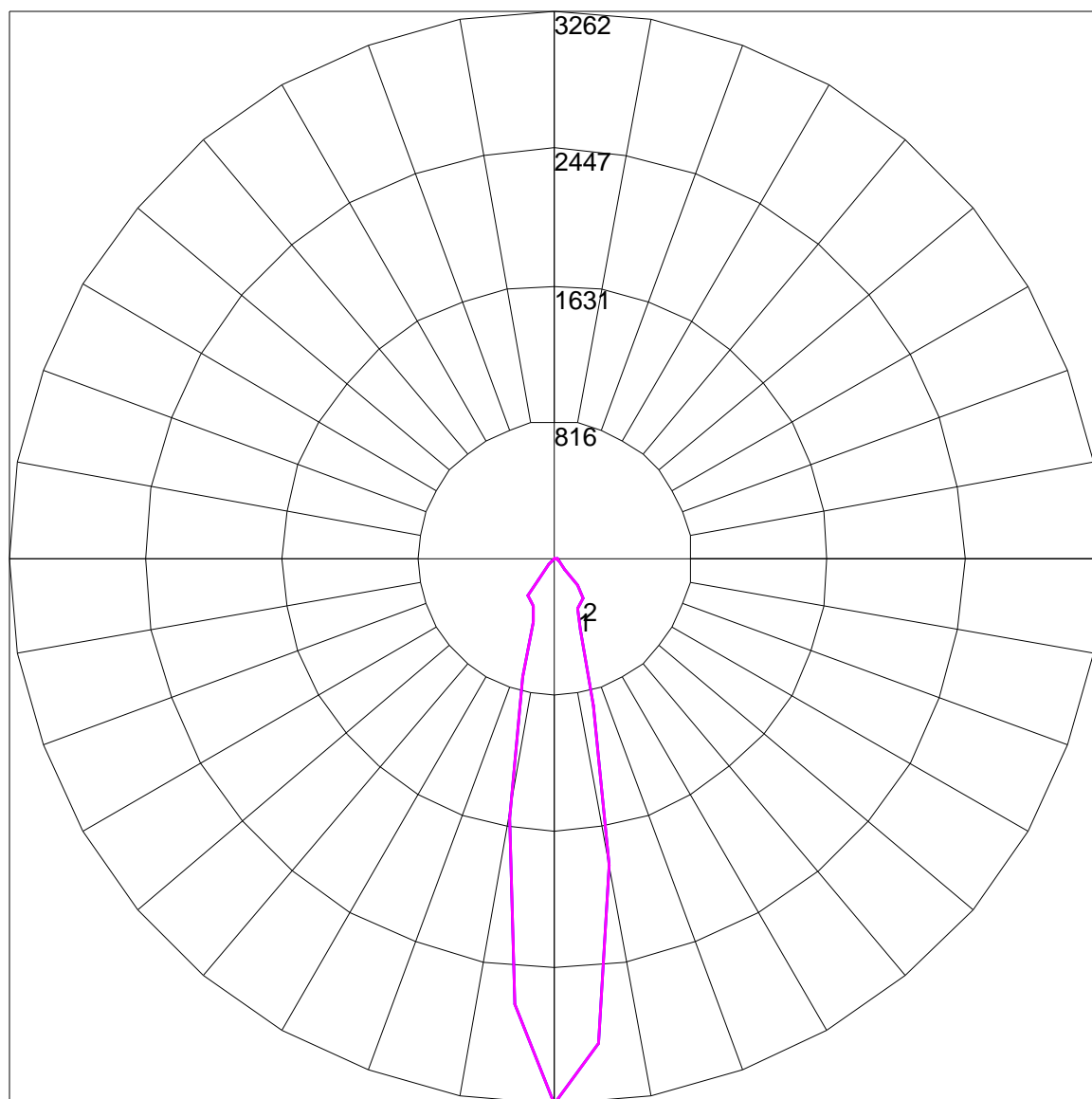
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	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	82	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	77	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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00629\_3 ~ C1216XT-10LXXK-MDEX-TCY-GLXXMW.IES

POLAR GRAPH



Maximum Candela = 3262.349 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)