

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_5 ~ C1216XT-10LXXK-MDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_5\_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-NL

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

[OTHER] Internal Reflector, Medium Beam

[OTHER] No lens

[OTHER] 20.1 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	923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
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\_5 ~ C1216XT-10LXXK-MDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3111	5719	7901
55	1094	1176	1275
65	916	1011	1147
75	1101	1186	1267
85	1127	1325	1655

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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	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249
5	2968.107	2945.423	2858.680	2871.615	2882.857	3061.396	3045.028	3055.134	2992.105	2958.699
10	1737.980	1708.413	1705.171	1666.752	1675.686	1817.558	1827.984	1733.693	1744.511	1718.452
15	744.283	739.475	785.110	758.087	747.742	795.001	823.159	728.647	750.682	734.910
20	411.801	416.347	434.313	434.649	432.095	422.832	429.877	419.124	419.136	409.678
25	350.523	355.255	362.861	368.198	370.709	354.924	352.082	364.897	360.375	352.303
30	330.762	335.884	342.428	348.112	352.151	338.922	333.704	349.072	344.169	336.249
35	296.370	308.069	306.052	326.266	322.619	310.111	308.189	326.037	314.873	304.123
40	147.524	165.594	183.301	214.988	228.860	211.011	200.006	240.603	219.843	199.859
45	31.390	32.011	57.696	59.189	79.711	76.647	74.238	81.675	76.457	61.335
50	14.361	12.628	14.464	12.845	16.331	22.156	21.467	16.795	19.262	17.466
55	8.956	9.382	9.627	10.596	10.432	11.853	12.646	11.057	10.813	11.356
60	8.820	8.283	8.310	9.082	8.967	11.106	11.727	11.111	10.095	10.527
65	5.522	6.447	6.097	7.652	6.915	9.911	10.419	8.942	9.724	9.413
70	4.703	4.545	4.575	4.538	5.503	9.338	10.091	8.458	9.024	8.479
75	4.066	3.912	4.381	4.453	4.678	9.660	9.176	8.691	8.914	8.889
80	2.709	3.536	3.558	4.170	4.004	9.287	8.610	9.104	8.400	7.977
85	1.402	1.498	1.648	1.790	2.058	6.063	7.491	7.177	8.338	7.482
90	0.000	0.000	0.000	0.000	0.760	4.909	4.545	4.964	5.014	4.927
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	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249	3499.249
5	2868.041	2858.173	2853.083	3044.493	3029.674	2998.547	2968.107
10	1705.123	1676.476	1664.929	1816.236	1827.414	1724.439	1737.980
15	774.978	728.016	712.441	794.511	828.717	698.283	744.283
20	421.077	399.703	401.121	422.745	430.249	389.893	411.801
25	350.779	347.134	345.466	350.768	352.791	346.789	350.523
30	331.295	327.269	324.616	327.968	328.435	323.309	330.762
35	296.792	281.399	287.495	288.009	283.509	282.667	296.370
40	172.826	157.652	135.486	150.576	157.830	139.539	147.524
45	55.415	42.075	31.949	42.832	53.763	31.616	31.390

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50	16.200	17.288	17.771	16.980	16.839	16.542	14.361
55	11.497	10.537	10.912	10.808	10.673	9.119	8.956
60	9.504	9.854	10.413	8.826	8.480	9.034	8.820
65	8.383	8.976	9.342	8.054	6.404	5.884	5.522
70	8.613	7.610	8.255	4.539	5.799	4.135	4.703
75	8.609	7.746	7.845	4.649	4.557	4.004	4.066
80	9.107	8.461	8.779	3.811	4.044	3.403	2.709
85	7.773	7.129	6.289	1.596	1.906	1.220	1.402
90	5.133	4.440	0.000	0.000	0.000	0.000	0.000
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\_5 ~ C1216XT-10LXXK-MDEX-TCY-NLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	489.89	N.A.	53.10
0-30	658.53	N.A.	71.30
0-40	833.56	N.A.	90.30
0-60	902.97	N.A.	97.80
0-80	917.87	N.A.	99.40
0-90	922.56	N.A.	99.90
10-90	677.61	N.A.	73.40
20-40	343.67	N.A.	37.20
20-50	402.42	N.A.	43.60
40-70	77.44	N.A.	8.40
60-80	14.90	N.A.	1.60
70-80	6.87	N.A.	0.70
80-90	4.69	N.A.	0.50
90-110	0.59	N.A.	0.10
90-120	0.59	N.A.	0.10
90-130	0.59	N.A.	0.10
90-150	0.59	N.A.	0.10
90-180	0.59	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	923.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	244.95
10-20	244.94
20-30	168.64
30-40	175.03
40-50	58.75
50-60	10.66
60-70	8.03
70-80	6.87
80-90	4.69
90-100	0.59
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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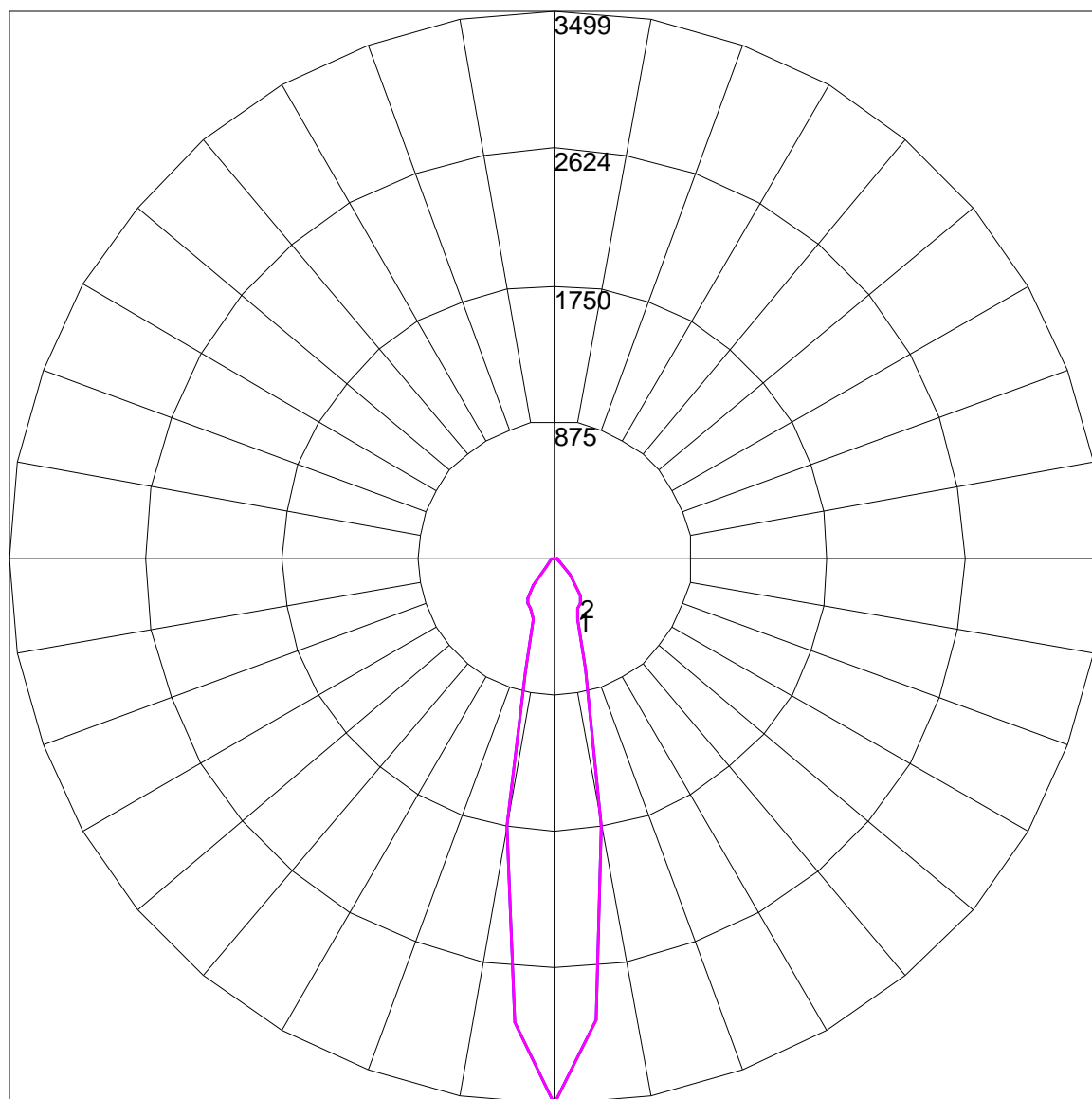
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59

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POLAR GRAPH



Maximum Candela = 3499.249 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)