

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_8 ~ C1216XT-10LXXK-WDEX-TCY-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_8\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 9/20/2017  
 [UPDATE] 4/9/2018  
 [LUMCAT] C1216XT-10L-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	893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	9.1
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-10LXXK-WDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8295	9753	8679
55	2014	1935	1947
65	2009	2081	2119
75	2646	2930	2975
85	2551	3428	2888

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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	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880
5	1349.822	1365.263	1363.651	1360.040	1337.731	1301.126	1289.474	1257.929	1250.166	1227.202
10	1193.545	1223.477	1217.082	1219.498	1181.345	1130.335	1116.424	1071.663	1059.326	1026.853
15	971.455	1004.636	994.408	1004.129	966.676	915.885	907.751	863.141	851.471	818.195
20	737.622	767.754	755.490	766.035	732.473	688.517	686.615	650.248	642.500	615.122
25	527.593	550.375	537.333	545.695	524.903	493.961	493.983	469.683	465.122	445.551
30	380.253	393.157	385.931	391.719	382.254	364.573	365.482	352.143	350.343	339.148
35	301.749	310.605	304.982	310.750	301.668	290.145	293.136	278.576	278.423	264.170
40	210.487	229.612	225.779	239.009	215.099	186.823	185.445	163.205	159.974	142.773
45	83.694	96.717	98.403	93.472	87.563	67.038	60.633	52.445	49.687	43.502
50	23.385	27.695	22.789	24.359	21.231	20.614	20.787	19.099	17.805	17.689
55	16.479	15.937	15.838	15.793	15.935	16.925	16.255	17.199	16.225	16.384
60	14.090	13.864	13.917	13.219	13.780	14.997	15.191	15.566	15.298	15.200
65	12.112	12.715	12.550	12.801	12.777	14.101	14.899	14.502	13.611	14.071
70	10.887	11.391	11.364	10.915	11.626	14.516	14.073	14.744	13.783	14.715
75	9.772	11.424	10.819	10.270	10.985	14.221	14.053	14.540	13.975	14.095
80	7.507	8.525	8.482	7.973	8.421	12.590	12.412	11.737	12.719	12.255
85	3.172	4.271	4.263	4.470	3.591	8.301	8.337	7.984	7.962	7.693
90	0.697	0.532	0.628	0.392	0.743	4.868	3.451	4.339	4.491	4.454
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. 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	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880	1370.880
5	1235.927	1233.342	1265.094	1302.812	1313.313	1340.661	1349.822
10	1035.365	1028.793	1069.326	1120.111	1134.012	1180.997	1193.545
15	827.773	817.629	854.881	901.843	912.646	959.879	971.455
20	622.569	617.003	645.523	686.090	691.841	731.070	737.622
25	446.752	443.314	462.504	493.363	495.503	524.134	527.593
30	338.540	334.897	344.256	361.948	362.544	377.753	380.253
35	274.913	259.424	280.950	291.875	290.020	302.741	301.749
40	146.009	143.278	160.420	186.120	189.140	209.818	210.487
45	35.657	39.712	40.065	62.127	67.717	79.755	83.694

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50	18.991	18.791	19.068	21.506	19.386	23.516	23.385
55	15.904	16.492	16.966	15.628	15.666	16.312	16.479
60	14.662	15.132	15.085	14.106	13.329	14.424	14.090
65	14.512	14.475	14.204	12.661	12.616	12.754	12.112
70	14.407	14.173	13.882	11.040	11.055	11.018	10.887
75	13.903	13.445	13.911	10.133	9.598	10.066	9.772
80	12.125	11.820	12.701	7.559	8.140	7.697	7.507
85	7.591	7.909	7.984	2.895	3.230	3.369	3.172
90	3.487	4.970	3.017	0.545	0.517	0.652	0.697
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	371.38	N.A.	41.60
0-30	604.35	N.A.	67.70
0-40	780.14	N.A.	87.40
0-60	859.86	N.A.	96.30
0-80	885.78	N.A.	99.20
0-90	892.36	N.A.	99.90
10-90	773.68	N.A.	86.60
20-40	408.77	N.A.	45.80
20-50	473.26	N.A.	53.00
40-70	93.14	N.A.	10.40
60-80	25.92	N.A.	2.90
70-80	12.50	N.A.	1.40
80-90	6.58	N.A.	0.70
90-110	0.65	N.A.	0.10
90-120	0.65	N.A.	0.10
90-130	0.65	N.A.	0.10
90-150	0.65	N.A.	0.10
90-180	0.65	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	893.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.68
10-20	252.70
20-30	232.97
30-40	175.79
40-50	64.50
50-60	15.21
60-70	13.43
70-80	12.50
80-90	6.58
90-100	0.65
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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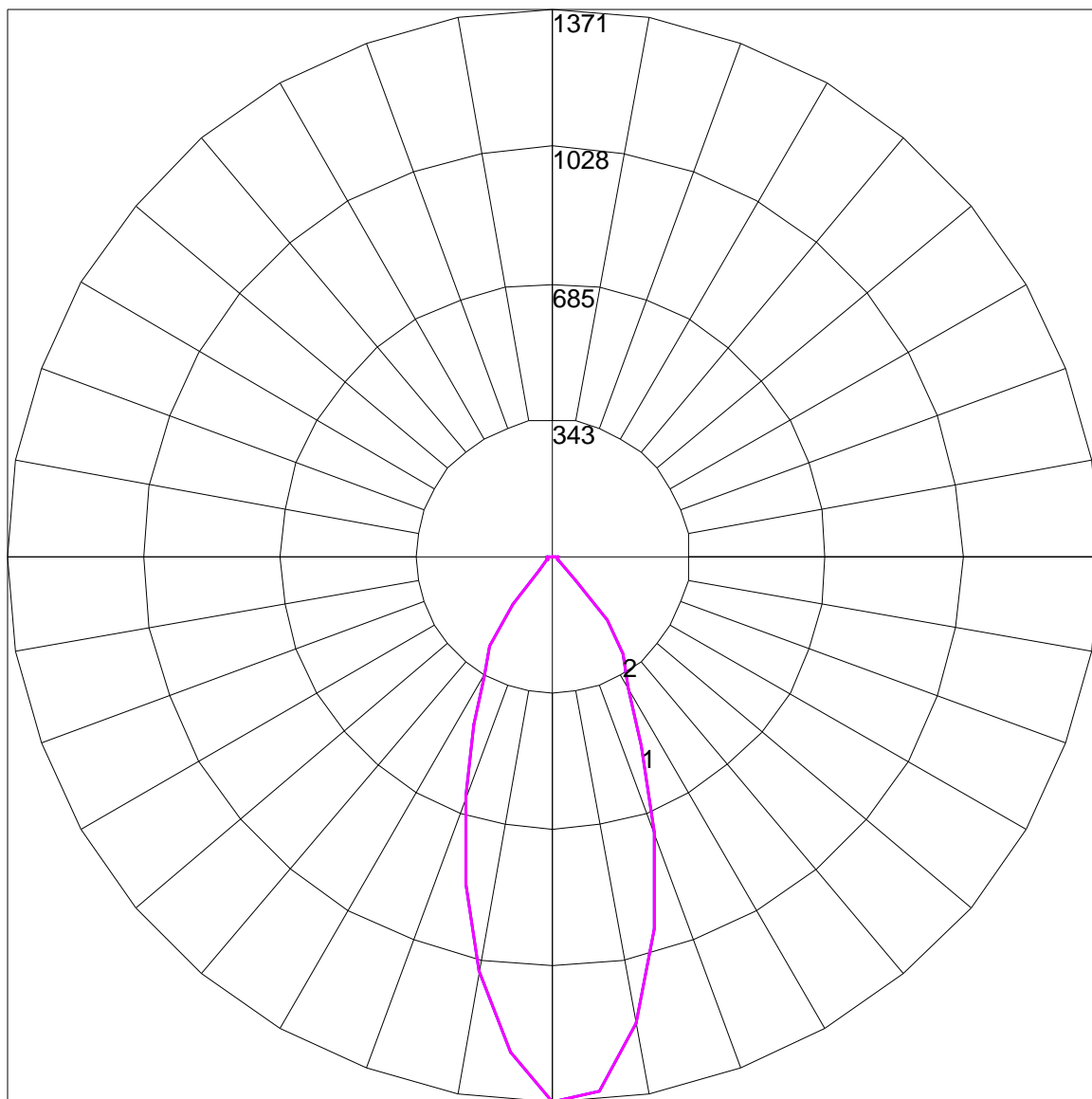
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	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	66	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 = 1370.88 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)