

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-20LXXK-NDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_2_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-20L-xxK-ND-EX-TCY-GL

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

[OTHER] Internal Reflector, Narrow Beam

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 20.3 Degree Beam Angle

[OTHER] Aimed at 0 Degrees (Nadir)

[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	1863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
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_2 ~ C1216XT-20LXXK-NDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25884	27447	25480
55	14135	13849	14153
65	2420	2784	2788
75	3993	3689	3308
85	3003	3900	3977

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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	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435
5	4795.027	4933.857	4858.538	4918.501	4786.633	4647.782	4672.180	4457.104	4521.391	4376.802
10	2971.965	3151.388	3044.284	3129.357	2933.760	2779.400	2786.702	2553.399	2613.626	2454.395
15	1511.750	1620.363	1543.533	1586.747	1453.573	1365.693	1357.213	1234.832	1259.636	1181.734
20	886.964	922.189	888.323	898.016	839.885	816.334	811.975	784.738	789.830	774.016
25	736.073	743.939	732.729	728.882	710.183	700.886	703.175	703.701	706.581	708.323
30	688.295	694.407	686.636	681.881	669.341	661.028	663.504	661.376	666.411	662.986
35	621.896	632.456	623.675	623.721	609.835	596.603	595.280	576.053	578.100	558.161
40	455.898	484.387	473.896	479.991	450.148	415.223	409.654	367.455	364.765	336.986
45	261.149	275.956	276.913	267.535	257.069	228.220	225.189	203.489	195.642	184.295
50	185.995	187.845	183.880	183.914	178.463	176.209	179.720	173.669	163.158	159.335
55	115.684	120.853	113.337	120.886	115.831	111.144	122.711	113.349	114.218	103.044
60	36.315	39.415	37.518	40.077	39.292	37.372	43.511	39.953	42.617	39.028
65	14.595	15.406	16.786	15.799	16.814	19.414	23.427	21.508	22.672	20.333
70	14.197	16.855	14.395	13.664	14.572	17.919	18.562	21.783	20.644	22.559
75	14.745	11.319	13.622	12.215	12.217	18.882	21.486	20.688	23.039	20.400
80	7.924	10.534	9.804	9.867	9.776	18.647	16.240	17.719	18.895	17.212
85	3.734	4.544	4.850	5.408	4.946	13.135	10.223	10.333	11.485	10.769
90	1.591	0.465	1.233	0.567	0.851	5.922	2.782	6.989	2.704	8.019
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	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435	5564.435
5	4477.099	4376.001	4508.135	4672.330	4644.270	4837.151	4795.027
10	2566.428	2469.996	2623.945	2805.724	2789.820	3016.109	2971.965
15	1235.834	1193.643	1280.059	1392.384	1399.503	1535.743	1511.750
20	792.633	779.346	810.211	840.298	846.898	895.493	886.964
25	713.773	711.434	716.734	726.123	726.086	736.726	736.073
30	670.074	665.601	674.442	683.847	684.168	691.525	688.295
35	574.097	559.679	589.651	602.350	605.116	624.607	621.896
40	350.530	341.892	367.140	401.015	409.358	454.112	455.898
45	195.166	195.434	196.793	220.836	227.609	255.399	261.149

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50	170.884	167.986	178.727	173.723	177.866	185.887	185.995
55	111.808	102.269	111.795	113.690	109.801	119.067	115.684
60	38.255	36.392	33.490	37.868	33.998	37.920	36.315
65	20.063	21.998	17.775	15.919	17.802	16.234	14.595
70	19.000	19.800	19.132	11.083	11.798	12.240	14.197
75	20.146	20.769	19.348	13.186	14.665	13.287	14.745
80	17.872	17.716	18.238	8.886	9.377	8.550	7.924
85	10.140	10.009	12.193	2.839	3.526	4.048	3.734
90	3.049	5.754	5.990	0.858	0.931	0.355	1.591
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	819.45	N.A.	44.00
0-30	1159.02	N.A.	62.20
0-40	1514.8	N.A.	81.30
0-60	1813.47	N.A.	97.40
0-80	1853.17	N.A.	99.50
0-90	1861.85	N.A.	100.00
10-90	1473.23	N.A.	79.10
20-40	695.35	N.A.	37.30
20-50	895.74	N.A.	48.10
40-70	321.43	N.A.	17.30
60-80	39.70	N.A.	2.10
70-80	16.94	N.A.	0.90
80-90	8.68	N.A.	0.50
90-110	0.82	N.A.	0.00
90-120	0.82	N.A.	0.00
90-130	0.82	N.A.	0.00
90-150	0.82	N.A.	0.00
90-180	0.82	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1862.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	388.62
10-20	430.82
20-30	339.57
30-40	355.78
40-50	200.39
50-60	98.29
60-70	22.76
70-80	16.94
80-90	8.68
90-100	0.82
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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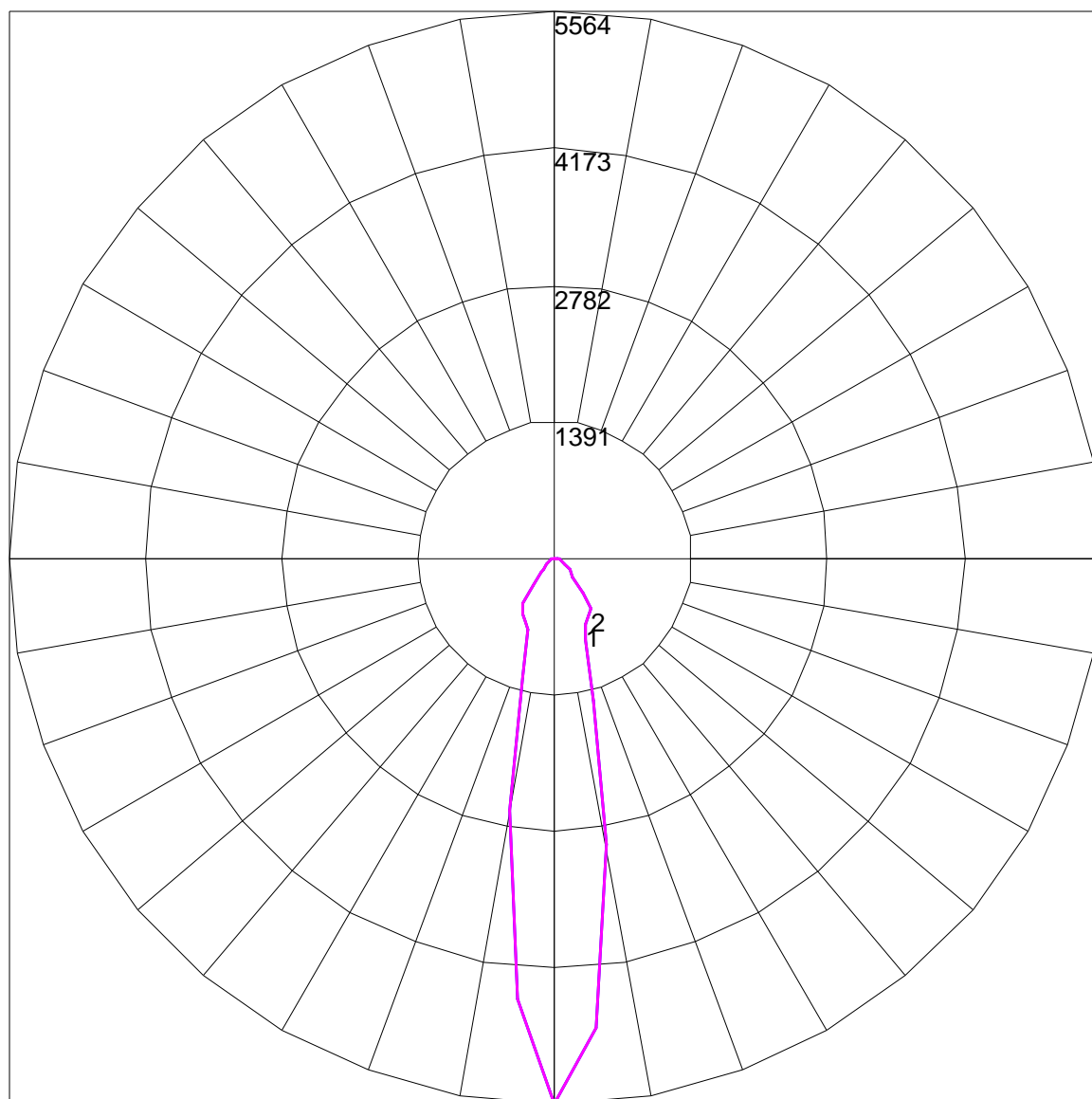
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	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	80	77	83	79	76	81	78	75	73
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	63	70	66	62	69	65	62	60
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 5564.435 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)