

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_1 ~ C1216XT-20LXXK-NDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_1_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-SO

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

[OTHER] Internal Reflector, Narrow Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 25.1 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	1785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.48
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_1 ~ C1216XT-20LXXK-NDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24630	24776	25258
55	11072	10956	11553
65	6427	6558	6943
75	5332	5671	5421
85	3390	3850	4169

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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	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884
5	3358.536	3444.855	3367.788	3435.505	3391.770	3385.541	3424.505	3358.175	3444.516	3378.888
10	2361.293	2430.469	2333.547	2426.337	2352.037	2323.658	2409.941	2334.388	2438.413	2347.755
15	1491.325	1511.376	1465.682	1518.917	1470.170	1434.200	1483.468	1469.242	1509.436	1445.936
20	993.206	982.442	980.592	1008.097	978.760	947.371	965.666	983.064	983.417	944.287
25	776.259	768.430	773.009	782.250	768.848	751.256	753.970	766.244	757.891	740.537
30	665.139	673.969	670.522	677.337	666.040	659.215	659.511	652.963	648.157	634.754
35	539.871	558.077	548.087	562.581	545.067	538.810	542.674	522.863	526.479	508.279
40	388.808	402.084	391.804	404.341	394.971	391.700	387.043	368.891	377.354	366.872
45	248.500	256.953	249.972	256.135	254.834	256.255	252.860	241.782	245.289	238.799
50	150.543	149.427	149.014	156.094	154.955	154.502	153.443	153.460	156.746	147.849
55	90.615	90.742	89.666	92.663	94.551	93.457	94.881	94.786	97.730	94.727
60	57.720	57.746	58.108	56.618	60.634	64.813	63.348	63.689	65.173	63.766
65	38.753	40.799	39.543	39.537	41.867	48.163	47.378	46.390	45.492	48.238
70	29.236	29.209	28.823	30.012	29.091	36.656	38.865	35.599	36.972	36.931
75	19.692	20.724	20.944	20.810	20.018	27.920	30.378	27.213	28.916	28.049
80	12.479	12.330	12.349	13.321	13.796	23.754	23.268	22.370	22.425	21.685
85	4.216	4.331	4.788	4.138	5.185	13.978	14.145	13.488	13.715	14.431
90	1.067	0.927	1.413	1.597	1.851	7.235	6.514	7.223	5.850	8.647
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	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884	3886.884
5	3499.658	3394.887	3471.095	3472.853	3369.420	3466.969	3358.536
10	2449.004	2366.354	2408.930	2407.376	2357.574	2446.590	2361.293
15	1481.429	1465.920	1462.830	1453.342	1462.174	1514.157	1491.325
20	949.461	963.642	950.516	938.488	963.099	986.642	993.206
25	743.725	754.758	749.389	741.526	755.792	771.509	776.259
30	645.357	639.461	644.800	649.424	649.010	665.535	665.139
35	521.763	513.691	521.875	526.562	526.688	546.714	539.871
40	376.091	365.991	378.033	384.493	381.280	394.914	388.808
45	244.302	237.218	243.616	248.888	247.324	250.376	248.500

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50	150.963	152.170	149.804	149.168	149.595	151.296	150.543
55	98.816	96.103	96.808	88.960	91.189	93.357	90.615
60	66.053	64.704	64.757	59.817	59.271	60.174	57.720
65	47.294	46.752	45.540	42.161	40.321	40.715	38.753
70	36.524	34.639	34.658	30.234	28.490	28.789	29.236
75	29.293	27.205	27.266	17.353	21.398	19.846	19.692
80	21.492	21.524	20.354	12.232	12.393	12.017	12.479
85	13.835	12.577	11.910	3.658	4.052	4.592	4.216
90	6.705	7.428	6.794	1.283	1.404	1.291	1.067
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	725.87	N.A.	40.70
0-30	1086.48	N.A.	60.90
0-40	1415.15	N.A.	79.30
0-60	1702.5	N.A.	95.40
0-80	1773.48	N.A.	99.30
0-90	1784.23	N.A.	99.90
10-90	1489.3	N.A.	83.40
20-40	689.28	N.A.	38.60
20-50	887.34	N.A.	49.70
40-70	332.31	N.A.	18.60
60-80	70.98	N.A.	4.00
70-80	26.01	N.A.	1.50
80-90	10.75	N.A.	0.60
90-110	1.15	N.A.	0.10
90-120	1.15	N.A.	0.10
90-130	1.15	N.A.	0.10
90-150	1.15	N.A.	0.10
90-180	1.15	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1785.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	294.93
10-20	430.94
20-30	360.61
30-40	328.68
40-50	198.06
50-60	89.29
60-70	44.97
70-80	26.01
80-90	10.75
90-100	1.15
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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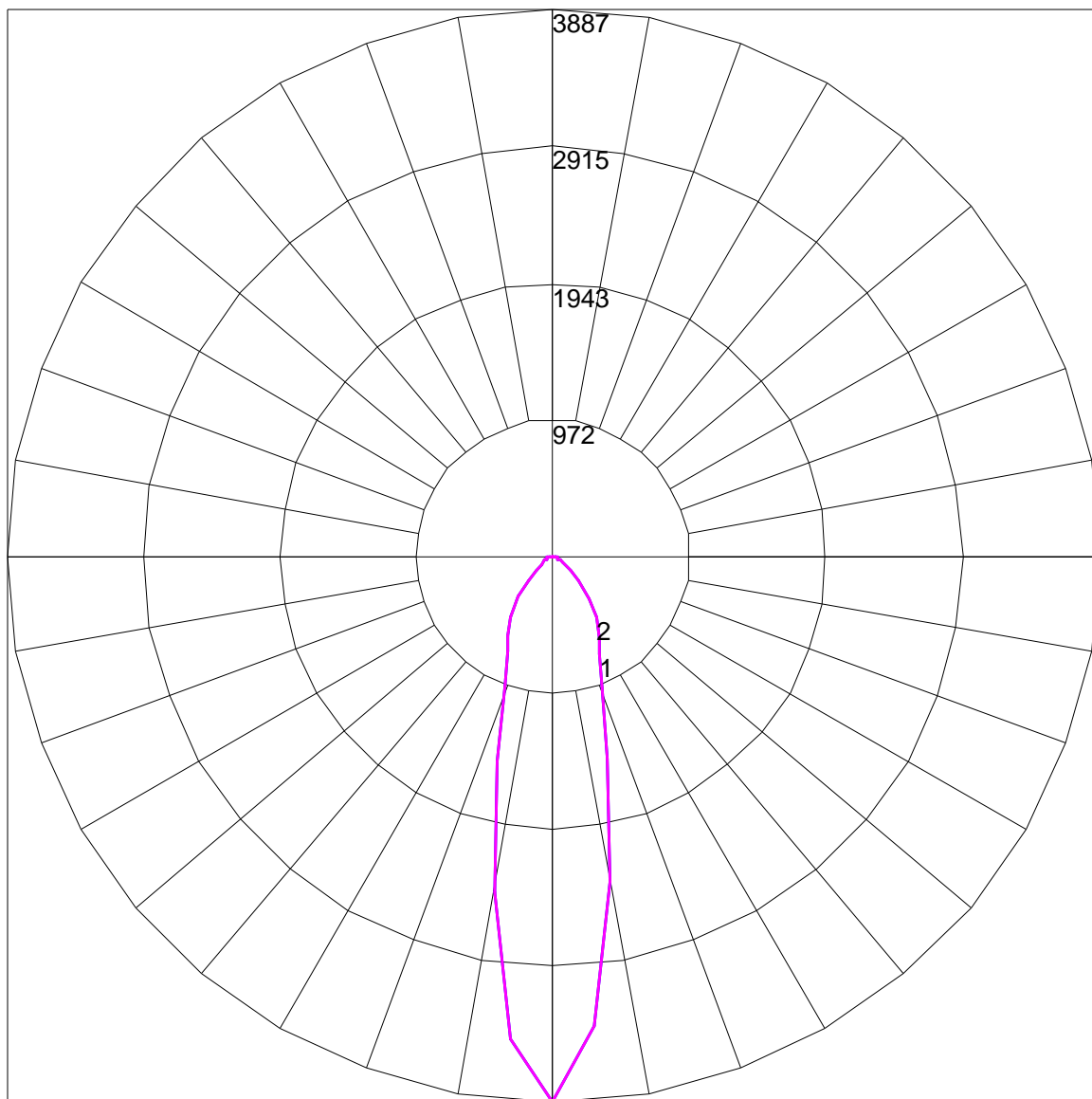
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	61	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 3886.884 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)