

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_8 ~ C1216XT-20LXXK-WDEX-TCY-GLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_8_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 4/9/2018
 [LUMCAT] C1216XT-20L-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	1851
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	21.7
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-20LXXK-WDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17197	20219	17992
55	4174	4012	4037
65	4164	4315	4393
75	5486	6073	6167
85	5287	7107	5987

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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	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933
5	2798.279	2830.288	2826.946	2819.462	2773.213	2697.328	2673.172	2607.778	2591.684	2544.079
10	2474.305	2536.357	2523.098	2528.108	2449.013	2343.267	2314.428	2221.634	2196.059	2128.741
15	2013.895	2082.683	2061.479	2081.631	2003.989	1898.696	1881.834	1789.354	1765.161	1696.177
20	1529.144	1591.610	1566.186	1588.045	1518.469	1427.345	1423.403	1348.011	1331.948	1275.192
25	1093.739	1140.966	1113.930	1131.265	1088.162	1024.017	1024.062	973.687	964.231	923.660
30	788.293	815.043	800.062	812.061	792.440	755.785	757.671	730.018	726.286	703.078
35	625.547	643.907	632.249	644.206	625.380	601.492	607.693	577.508	577.192	547.644
40	436.355	476.002	468.057	495.483	445.916	387.298	384.441	338.336	331.638	295.979
45	173.503	200.501	203.996	193.774	181.524	138.974	125.697	108.721	103.005	90.183
50	48.479	57.413	47.244	50.497	44.013	42.735	43.093	39.593	36.912	36.671
55	34.162	33.039	32.833	32.740	33.035	35.088	33.698	35.655	33.635	33.964
60	29.209	28.741	28.851	27.405	28.567	31.091	31.492	32.270	31.714	31.512
65	25.109	26.359	26.018	26.538	26.487	29.233	30.886	30.064	28.217	29.169
70	22.570	23.615	23.559	22.628	24.101	30.092	29.174	30.566	28.573	30.506
75	20.258	23.683	22.428	21.290	22.773	29.480	29.133	30.143	28.971	29.221
80	15.563	17.674	17.584	16.528	17.458	26.099	25.732	24.332	26.368	25.405
85	6.575	8.855	8.838	9.267	7.445	17.210	17.283	16.552	16.505	15.948
90	1.445	1.103	1.303	0.812	1.540	10.091	7.154	8.994	9.309	9.234
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	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933	2841.933
5	2562.167	2556.808	2622.631	2700.822	2722.593	2779.288	2798.279
10	2146.387	2132.761	2216.790	2322.070	2350.889	2448.292	2474.305
15	1716.032	1695.005	1772.230	1869.585	1891.982	1989.900	2013.895
20	1290.631	1279.093	1338.215	1422.313	1434.236	1515.562	1529.144
25	926.149	919.023	958.804	1022.778	1027.213	1086.567	1093.739
30	701.818	694.265	713.668	750.344	751.581	783.109	788.293
35	569.914	537.804	582.430	605.078	601.231	627.604	625.547
40	302.686	297.026	332.563	385.839	392.101	434.967	436.355
45	73.920	82.327	83.058	128.793	140.383	165.338	173.503

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50	39.369	38.956	39.529	44.583	40.188	48.750	48.479
55	32.970	34.188	35.171	32.399	32.476	33.816	34.162
60	30.396	31.370	31.272	29.242	27.631	29.902	29.209
65	30.084	30.008	29.447	26.248	26.155	26.441	25.109
70	29.867	29.382	28.778	22.886	22.917	22.842	22.570
75	28.823	27.873	28.838	21.006	19.896	20.868	20.258
80	25.137	24.505	26.329	15.671	16.875	15.955	15.563
85	15.737	16.396	16.551	6.002	6.696	6.984	6.575
90	7.229	10.303	6.254	1.131	1.073	1.351	1.445
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	769.89	N.A.	41.60
0-30	1252.86	N.A.	67.70
0-40	1617.29	N.A.	87.40
0-60	1782.54	N.A.	96.30
0-80	1836.29	N.A.	99.20
0-90	1849.93	N.A.	99.90
10-90	1603.9	N.A.	86.60
20-40	847.40	N.A.	45.80
20-50	981.11	N.A.	53.00
40-70	193.08	N.A.	10.40
60-80	53.74	N.A.	2.90
70-80	25.91	N.A.	1.40
80-90	13.64	N.A.	0.70
90-110	1.34	N.A.	0.10
90-120	1.34	N.A.	0.10
90-130	1.34	N.A.	0.10
90-150	1.34	N.A.	0.10
90-180	1.34	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1851.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.03
10-20	523.86
20-30	482.97
30-40	364.43
40-50	133.71
50-60	31.54
60-70	27.83
70-80	25.91
80-90	13.64
90-100	1.34
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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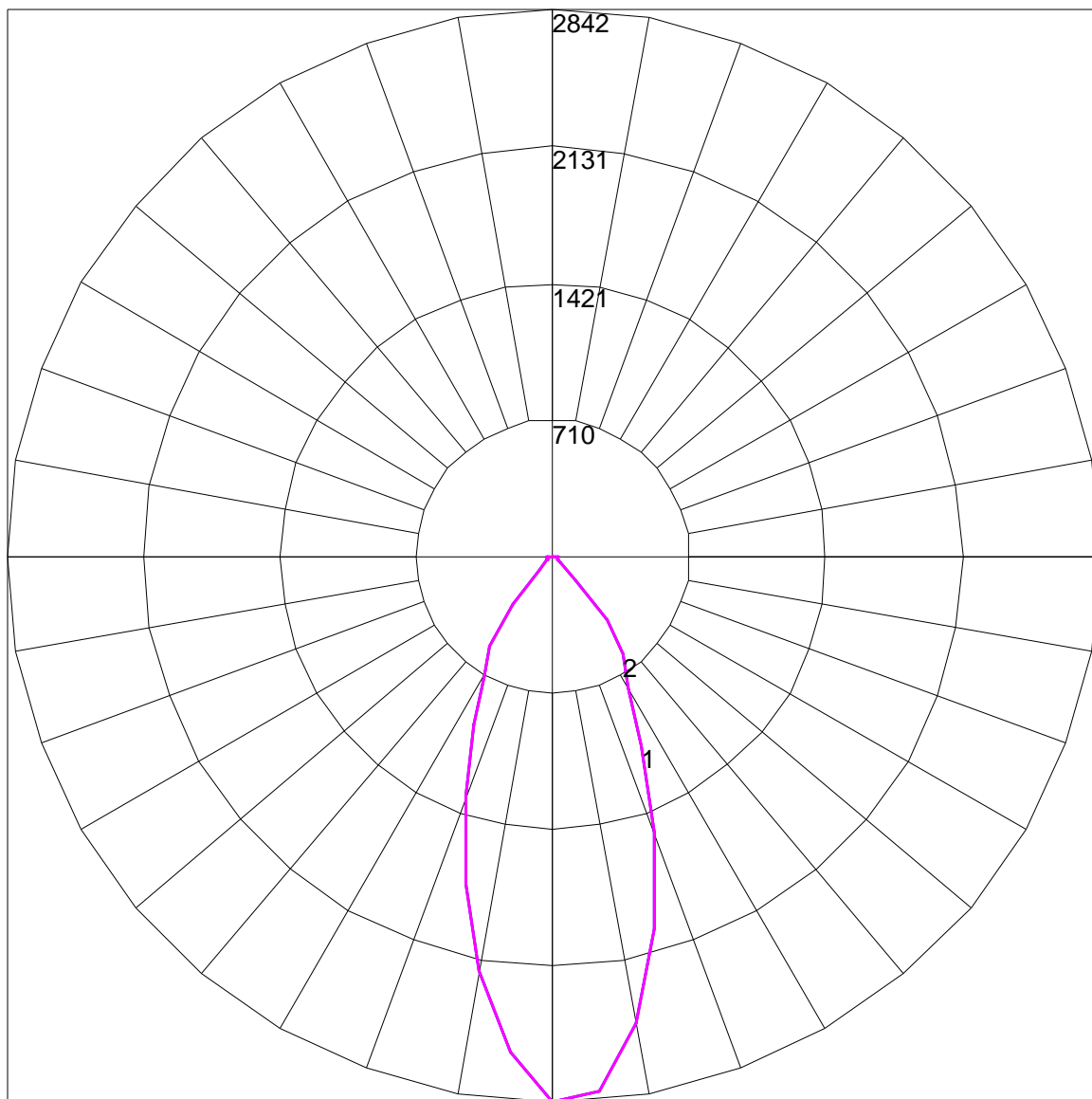
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	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	67	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 = 2841.933 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)