

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-30LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00629  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C1216XT-30L-xxK-ND-EX-TCY-NL  
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Narrow Beam  
[OTHER] No Lens  
[OTHER] 19.9 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
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 ~ C1216XT-30LXXK-NDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	40983	42829	43095
55	16289	14911	13570
65	2750	3161	2702
75	3040	3482	3209
85	4067	4518	4618

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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>
<b>0</b>	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388
<b>5</b>	7179.375	7370.339	7228.440	7269.529	7008.405	6792.755	6732.352	6379.753	6410.333	6158.052
<b>10</b>	4385.048	4637.204	4462.119	4543.346	4221.850	3966.453	3893.007	3502.154	3552.141	3312.662
<b>15</b>	2152.409	2291.856	2189.038	2257.540	2059.243	1935.527	1895.867	1715.393	1737.474	1635.501
<b>20</b>	1291.938	1330.268	1302.213	1323.484	1256.808	1221.154	1209.945	1170.097	1174.505	1153.720
<b>25</b>	1094.040	1106.363	1101.534	1102.833	1091.634	1076.421	1068.853	1060.364	1058.721	1061.520
<b>30</b>	1034.337	1050.561	1048.027	1047.595	1041.163	1030.801	1020.836	1006.384	1008.828	1011.737
<b>35</b>	959.526	982.519	979.184	986.081	960.546	939.703	922.417	878.833	883.142	854.289
<b>40</b>	705.694	752.354	741.683	766.147	720.466	666.433	639.025	572.873	555.999	520.558
<b>45</b>	413.482	441.086	432.110	453.698	434.796	402.134	383.959	349.656	333.286	326.471
<b>50</b>	275.708	279.925	259.674	280.015	263.395	254.736	254.545	247.634	245.520	249.126
<b>55</b>	133.309	139.155	122.030	125.019	111.057	106.494	111.850	107.503	110.348	109.724
<b>60</b>	34.912	40.528	36.757	35.114	29.920	31.834	32.832	34.314	35.848	34.473
<b>65</b>	16.583	14.686	19.059	16.210	16.293	18.765	21.942	24.768	21.351	22.806
<b>70</b>	11.901	9.233	14.493	13.613	12.122	21.301	22.601	20.896	20.478	21.045
<b>75</b>	11.225	11.692	12.859	11.906	11.852	20.757	23.559	21.544	22.112	25.928
<b>80</b>	11.010	9.942	10.997	9.914	9.349	21.189	21.945	23.876	21.650	20.687
<b>85</b>	5.058	6.104	5.619	6.228	5.743	18.343	16.636	18.291	17.129	16.656
<b>90</b>	1.461	0.837	1.820	0.888	1.450	11.461	3.501	9.837	3.604	11.742
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388	8141.388
<b>5</b>	6324.302	6203.781	6471.732	6810.481	6869.760	7217.419	7179.375
<b>10</b>	3477.854	3372.350	3638.392	3972.514	4047.467	4435.698	4385.048
<b>15</b>	1704.075	1651.285	1777.203	1932.873	1977.319	2184.016	2152.409
<b>20</b>	1166.915	1158.575	1188.729	1227.630	1236.535	1298.122	1291.938
<b>25</b>	1062.636	1066.954	1069.591	1080.214	1078.001	1093.876	1094.040
<b>30</b>	1017.372	1017.528	1022.911	1027.183	1020.710	1030.779	1034.337
<b>35</b>	881.319	864.649	908.802	928.162	929.073	962.080	959.526
<b>40</b>	537.929	530.254	571.211	617.424	638.384	700.338	705.694
<b>45</b>	323.047	315.796	330.324	354.300	371.134	400.026	413.482

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**CANDELA TABULATION - (Cont.)**

50	250.462	241.619	255.759	261.588	258.267	280.288	275.708
55	115.104	112.091	120.267	126.027	115.716	136.919	133.309
60	37.248	31.538	34.299	31.776	30.065	35.802	34.912
65	23.273	21.561	24.263	12.882	14.688	14.340	16.583
70	21.447	18.941	18.681	12.217	13.391	12.267	11.901
75	22.005	20.073	21.911	9.514	11.008	10.912	11.225
80	20.080	21.382	21.563	8.202	8.680	9.646	11.010
85	14.742	15.950	17.590	5.193	5.656	5.974	5.058
90	4.683	11.334	9.494	0.467	2.008	0.899	1.461
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	1174.68	N.A.	43.20
0-30	1683.74	N.A.	61.90
0-40	2232.71	N.A.	82.10
0-60	2668.23	N.A.	98.10
0-80	2707.54	N.A.	99.50
0-90	2719.25	N.A.	100.00
10-90	2156.69	N.A.	79.30
20-40	1058.03	N.A.	38.90
20-50	1375.79	N.A.	50.60
40-70	457.44	N.A.	16.80
60-80	39.31	N.A.	1.40
70-80	17.39	N.A.	0.60
80-90	11.71	N.A.	0.40
90-110	1.29	N.A.	0.00
90-120	1.29	N.A.	0.00
90-130	1.29	N.A.	0.00
90-150	1.29	N.A.	0.00
90-180	1.29	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2720.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	562.56
10-20	612.12
20-30	509.06
30-40	548.96
40-50	317.77
50-60	117.76
60-70	21.92
70-80	17.39
80-90	11.71
90-100	1.29
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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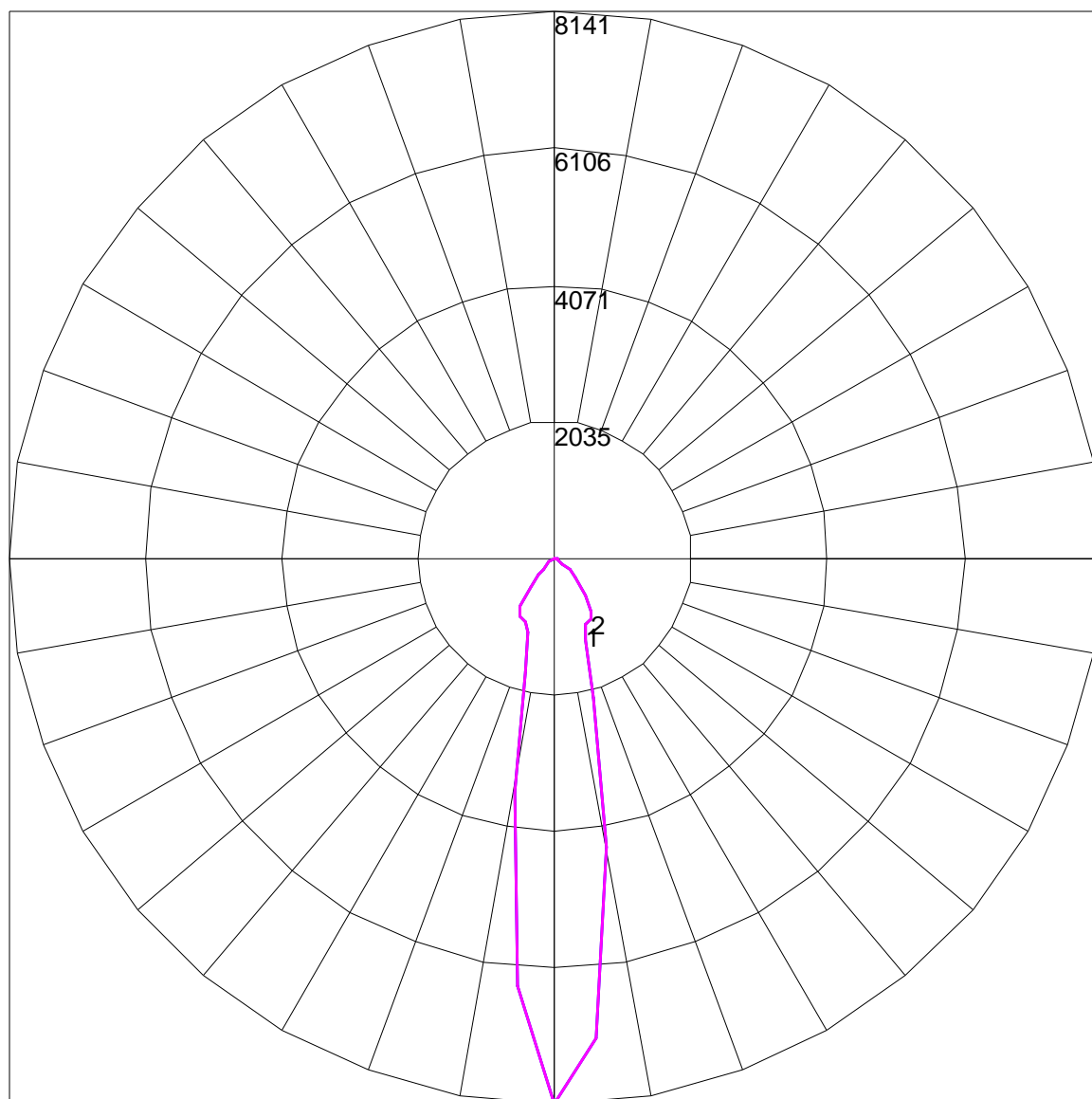
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	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 = 8141.388 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)