

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_4 ~ C1216XT-30LXXK-MDEX-TCY-SOXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_4
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 3/9/2018
 [LUMCAT] C1216XT-30L-xxK-MD-EX-TCY-SO
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Medium Beam
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 25.2 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26084	27638	27459
55	9868	10302	10193
65	6910	6845	7010
75	6831	7041	7673
85	5505	4896	6029

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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	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093
5	6273.689	6350.121	6248.381	6341.930	6296.746	6261.543	6335.056	6254.847	6352.930	6286.754
10	4423.263	4538.225	4408.986	4537.513	4454.219	4398.424	4492.042	4394.107	4530.326	4432.611
15	2691.562	2783.220	2701.306	2817.362	2731.305	2661.324	2728.036	2673.555	2773.623	2664.581
20	1647.977	1693.753	1666.406	1751.722	1683.662	1613.646	1645.244	1640.116	1689.638	1591.965
25	1179.101	1200.757	1197.997	1244.639	1203.331	1154.457	1163.540	1170.986	1185.347	1126.266
30	950.060	977.958	973.912	1008.240	980.456	955.155	962.672	950.702	951.068	915.167
35	733.019	761.507	753.019	791.322	768.933	752.453	760.703	737.677	739.113	703.514
40	478.829	504.309	495.318	519.622	503.362	495.879	503.437	476.797	483.475	462.628
45	263.162	286.876	278.849	285.498	277.034	280.583	282.481	261.459	270.595	264.421
50	137.109	153.318	148.983	151.687	145.791	151.282	150.301	142.044	147.682	142.016
55	80.763	85.573	84.309	87.694	83.421	87.729	86.375	88.334	91.859	84.747
60	54.828	54.793	55.339	58.270	55.071	59.736	62.199	63.670	66.544	61.071
65	41.666	42.497	41.274	44.275	42.269	49.480	49.739	52.514	53.299	51.183
70	33.311	34.234	31.847	35.851	34.276	43.984	45.787	47.206	45.267	45.966
75	25.227	25.443	26.000	28.706	28.335	37.271	40.026	40.677	40.805	40.906
80	15.679	16.657	15.944	17.962	18.218	30.589	31.075	33.146	34.633	32.597
85	6.846	7.011	6.089	6.680	7.497	20.273	20.800	24.018	22.170	22.760
90	1.860	1.445	2.038	1.731	1.843	12.027	9.769	13.128	10.706	12.508
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	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093	7128.093
5	6397.221	6296.290	6348.657	6359.149	6287.461	6365.043	6273.689
10	4579.040	4440.348	4498.253	4509.980	4406.010	4534.343	4423.263
15	2766.592	2672.727	2711.753	2699.983	2628.835	2757.951	2691.562
20	1636.379	1605.199	1622.284	1595.542	1565.320	1668.232	1647.977
25	1141.570	1138.299	1143.903	1128.136	1118.228	1176.421	1179.101
30	926.682	918.270	924.914	922.858	914.916	948.931	950.060
35	717.774	704.050	708.782	708.626	701.691	734.615	733.019
40	477.342	456.411	462.891	465.886	460.391	481.455	478.829
45	270.131	252.329	255.510	264.725	261.258	261.431	263.162

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50	143.550	134.055	134.566	137.089	136.628	137.128	137.109
55	85.249	80.684	81.390	75.547	76.211	80.007	80.763
60	60.461	59.898	56.598	50.763	51.091	50.175	54.828
65	49.588	49.068	48.938	38.634	40.020	42.103	41.666
70	44.153	42.276	43.750	31.355	32.453	34.336	33.311
75	37.998	38.567	35.663	23.222	24.128	28.249	25.227
80	33.097	30.738	29.916	14.977	16.750	17.144	15.679
85	22.508	21.262	21.172	5.977	6.130	5.411	6.846
90	10.493	12.149	10.748	1.842	1.632	1.449	1.860
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	1332.64	N.A.	48.50
0-30	1895.33	N.A.	68.90
0-40	2346.83	N.A.	85.30
0-60	2651.72	N.A.	96.40
0-80	2732.42	N.A.	99.30
0-90	2748.56	N.A.	99.90
10-90	2201.86	N.A.	80.10
20-40	1014.19	N.A.	36.90
20-50	1237.05	N.A.	45.00
40-70	351.62	N.A.	12.80
60-80	80.71	N.A.	2.90
70-80	33.97	N.A.	1.20
80-90	16.14	N.A.	0.60
90-110	1.80	N.A.	0.10
90-120	1.80	N.A.	0.10
90-130	1.80	N.A.	0.10
90-150	1.80	N.A.	0.10
90-180	1.80	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2750.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	546.70
10-20	785.94
20-30	562.69
30-40	451.51
40-50	222.85
50-60	82.03
60-70	46.74
70-80	33.97
80-90	16.14
90-100	1.80
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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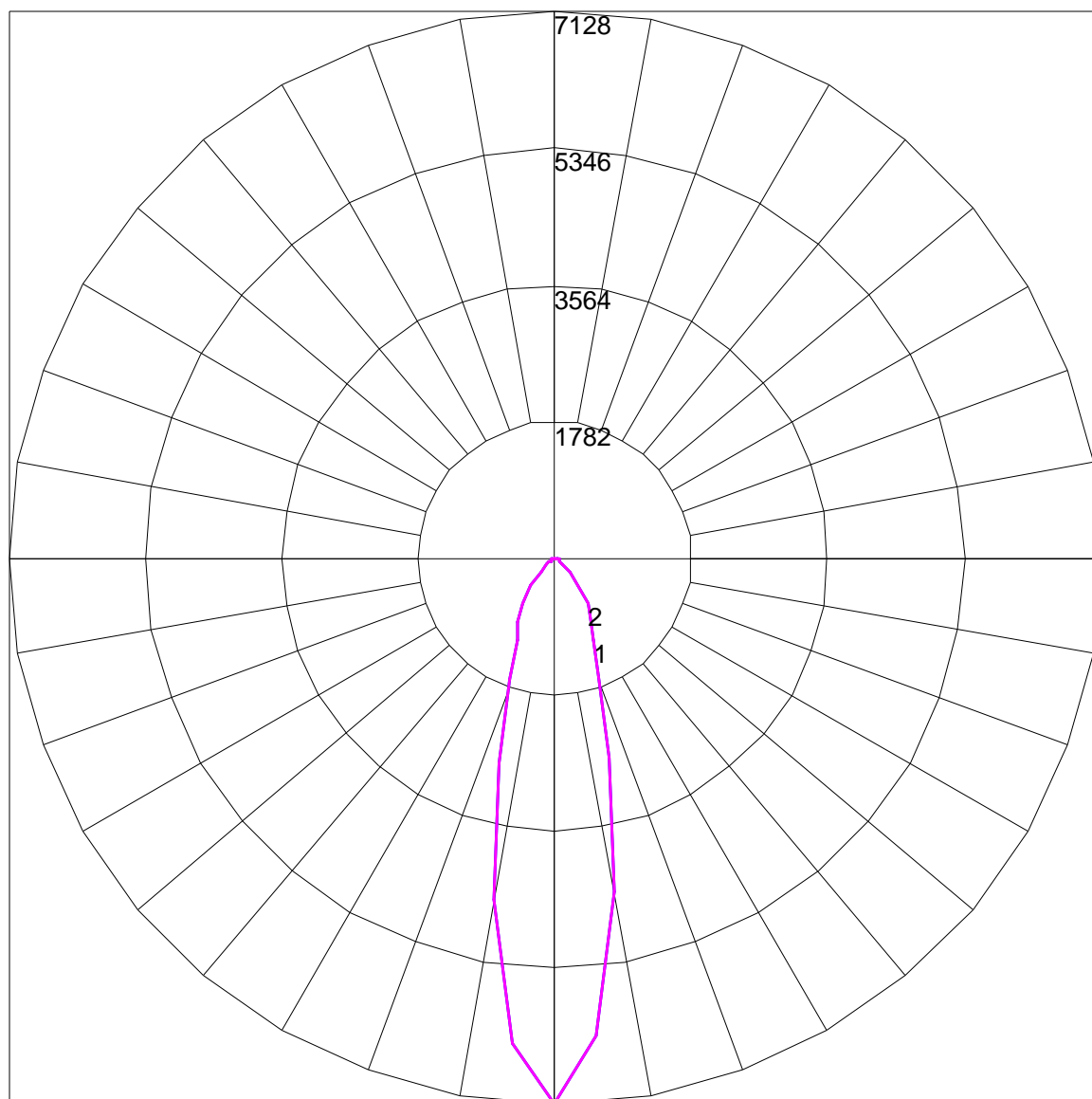
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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POLAR GRAPH



Maximum Candela = 7128.093 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)