

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-50LXXK-MDEX-TCY-GLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_3
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/20/2017
 [UPDATE] 3/9/2018
 [LUMCAT] C1216XT-50L-xxK-MD-EX-TCY-GL
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Medium Beam
 [OTHER] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 21.1 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 50L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.38
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_3 ~ C1216XT-50LXXK-MDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	43772	47650	43938
55	8080	8043	7213
65	5912	5204	5143
75	7880	8877	8021
85	7052	8107	7832

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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	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249
5	15081.463	15444.734	15199.415	15298.995	14842.642	14429.386	14399.218	13756.518	13847.378	13344.009
10	9710.932	10243.950	9863.663	10032.800	9366.730	8832.785	8805.118	8058.073	8172.548	7673.578
15	4706.108	5090.295	4834.230	4957.308	4506.361	4201.815	4174.437	3758.417	3849.018	3585.669
20	2328.916	2486.954	2393.349	2457.953	2279.908	2191.507	2182.080	2058.457	2092.622	2017.670
25	1752.459	1783.127	1760.059	1768.524	1729.381	1701.494	1703.251	1681.943	1679.971	1671.258
30	1606.533	1618.557	1601.330	1598.166	1584.719	1571.181	1570.457	1559.400	1560.787	1555.258
35	1478.649	1507.612	1489.418	1498.040	1464.091	1446.934	1434.569	1383.983	1400.018	1344.089
40	1053.732	1131.171	1101.714	1128.671	1054.341	981.163	965.123	863.166	857.985	776.099
45	441.628	490.942	480.748	483.043	443.297	386.052	380.478	326.182	321.499	282.612
50	133.917	153.487	143.737	151.030	124.530	123.373	124.428	106.871	117.060	105.008
55	66.123	65.927	65.820	66.247	59.030	66.898	65.693	58.680	65.706	56.610
60	40.013	45.838	40.371	43.247	43.769	52.155	50.792	49.553	51.254	51.785
65	35.649	33.803	31.383	33.178	31.013	45.729	47.488	48.193	45.122	45.471
70	32.797	28.139	29.838	30.234	31.700	45.161	52.075	51.984	46.343	50.135
75	29.101	27.977	32.783	32.095	29.619	47.376	52.094	51.757	51.577	54.899
80	22.376	27.077	25.428	26.260	26.700	46.906	47.001	48.073	54.374	49.790
85	8.770	10.722	10.082	9.925	9.740	29.628	33.838	28.717	30.026	31.893
90	2.777	0.982	3.267	0.850	3.789	16.485	6.881	21.316	7.363	18.842
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. 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	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249	16910.249
5	13619.604	13332.016	13782.790	14357.608	14441.800	15092.770	15081.463
10	7998.525	7706.233	8204.217	8826.202	8892.588	9746.106	9710.932
15	3772.193	3601.452	3852.507	4184.455	4208.323	4723.188	4706.108
20	2075.985	2014.435	2099.925	2183.067	2178.787	2341.057	2328.916
25	1681.235	1667.860	1693.832	1721.623	1721.376	1753.331	1752.459
30	1559.770	1553.776	1574.877	1592.899	1598.190	1612.056	1606.533
35	1372.466	1349.458	1427.909	1449.335	1449.382	1499.542	1478.649
40	814.230	793.387	864.556	943.270	958.538	1067.345	1053.732
45	301.832	285.285	295.659	359.135	369.951	434.685	441.628

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50	108.623	104.498	105.416	112.462	117.547	141.013	133.917
55	60.249	59.394	62.217	62.959	62.222	65.051	66.123
60	44.327	46.261	51.137	40.715	41.442	45.327	40.013
65	50.068	42.745	46.606	32.923	34.997	37.654	35.649
70	45.951	48.625	45.602	29.534	31.020	29.453	32.797
75	48.605	46.169	50.583	29.949	30.159	33.532	29.101
80	41.898	42.967	47.471	21.724	28.761	26.182	22.376
85	33.402	24.323	28.509	9.834	8.665	11.092	8.770
90	6.903	21.964	13.934	0.834	3.164	1.725	2.777
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	2518.46	N.A.	53.40
0-30	3348.00	N.A.	71.00
0-40	4192.56	N.A.	88.90
0-60	4608.14	N.A.	97.70
0-80	4690.67	N.A.	99.50
0-90	4713.69	N.A.	100.00
10-90	3506.85	N.A.	74.40
20-40	1674.09	N.A.	35.50
20-50	2023.92	N.A.	42.90
40-70	456.66	N.A.	9.70
60-80	82.53	N.A.	1.80
70-80	41.45	N.A.	0.90
80-90	23.03	N.A.	0.50
90-110	2.24	N.A.	0.00
90-120	2.24	N.A.	0.00
90-130	2.24	N.A.	0.00
90-150	2.24	N.A.	0.00
90-180	2.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4715.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1206.84
10-20	1311.63
20-30	829.54
30-40	844.56
40-50	349.82
50-60	65.76
60-70	41.08
70-80	41.45
80-90	23.03
90-100	2.24
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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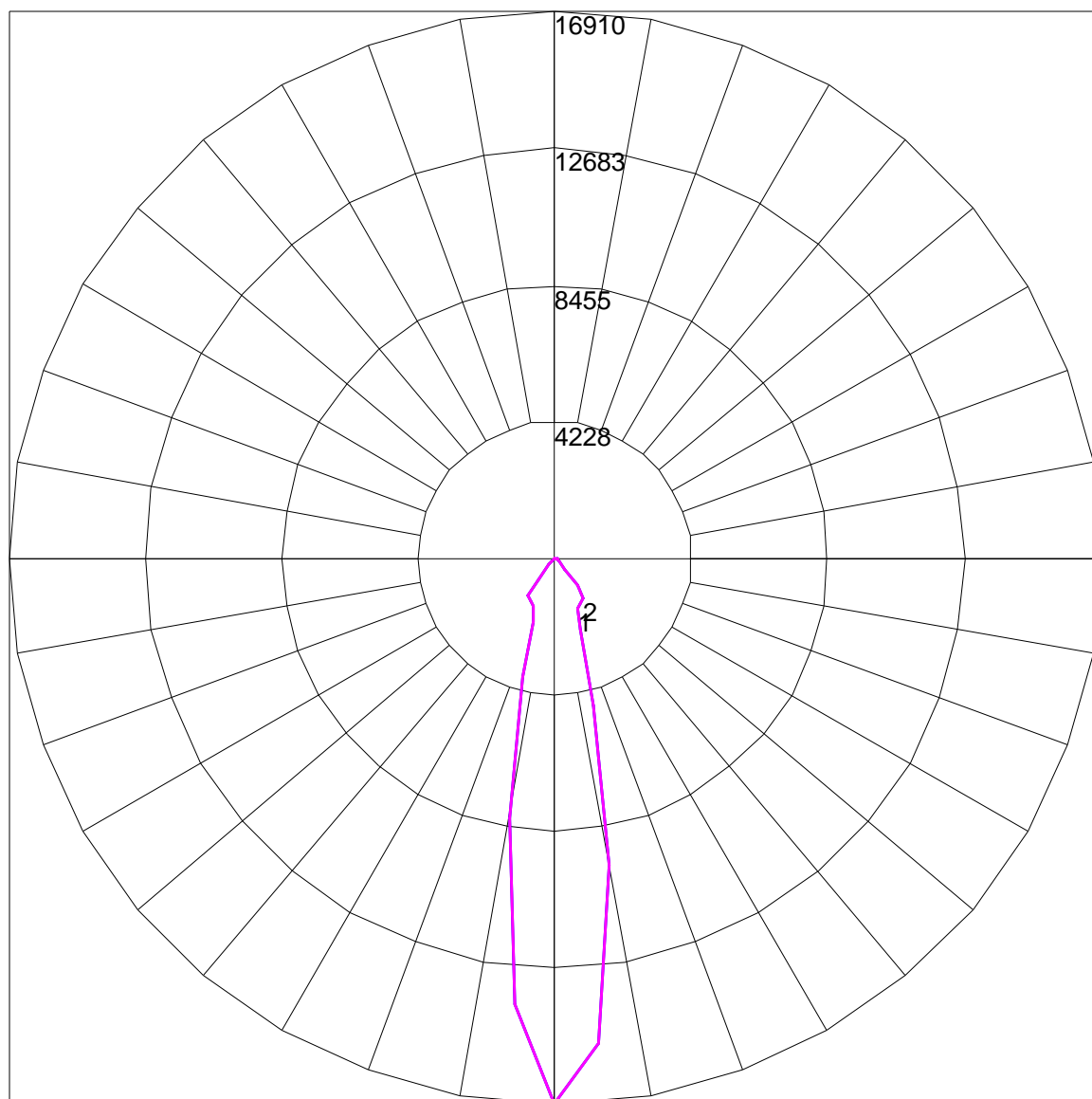
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 16910.249 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)