

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-50LXXK-MDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_5_M-50L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-50L-xxK-MD-EX-TCY-NL

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

[OTHER] Internal Reflector, Medium Beam

[OTHER] No lens

[OTHER] 20.1 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	4785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
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_5 ~ C1216XT-50LXXK-MDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16127	29642	40953
55	5672	6097	6608
65	4747	5241	5944
75	5707	6150	6566
85	5845	6867	8576

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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	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211
5	15385.057	15267.477	14817.850	14884.895	14943.169	15868.615	15783.773	15836.157	15509.448	15336.290
10	9008.748	8855.488	8838.683	8639.541	8685.849	9421.234	9475.280	8986.526	9042.600	8907.525
15	3857.960	3833.037	4069.587	3929.514	3875.888	4120.854	4266.810	3776.910	3891.130	3809.377
20	2134.552	2158.115	2251.242	2252.984	2239.746	2191.733	2228.247	2172.513	2172.576	2123.548
25	1816.920	1841.452	1880.876	1908.540	1921.556	1839.731	1825.000	1891.428	1867.989	1826.149
30	1714.491	1741.040	1774.962	1804.423	1825.360	1756.788	1729.743	1809.399	1783.985	1742.934
35	1536.219	1596.861	1586.409	1691.187	1672.284	1607.448	1597.486	1690.001	1632.133	1576.407
40	764.683	858.348	950.133	1114.383	1186.287	1093.769	1036.722	1247.154	1139.548	1035.959
45	162.711	165.928	299.063	306.801	413.179	397.296	384.810	423.358	396.313	317.929
50	74.438	65.458	74.973	66.582	84.652	114.843	111.274	87.057	99.842	90.533
55	46.421	48.633	49.900	54.923	54.076	61.437	65.550	57.315	56.046	58.865
60	45.717	42.934	43.072	47.078	46.478	57.568	60.789	57.595	52.327	54.564
65	28.622	33.420	31.605	39.663	35.842	51.374	54.006	46.353	50.402	48.791
70	24.378	23.561	23.713	23.521	28.524	48.401	52.304	43.840	46.776	43.952
75	21.074	20.277	22.710	23.081	24.247	50.072	47.563	45.051	46.206	46.078
80	14.041	18.329	18.444	21.614	20.754	48.141	44.627	47.189	43.539	41.347
85	7.268	7.767	8.540	9.280	10.665	31.430	38.828	37.204	43.219	38.781
90	0.000	0.000	0.000	0.000	3.941	25.445	23.561	25.730	25.990	25.537
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	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211	18138.211
5	14866.372	14815.218	14788.836	15781.001	15704.189	15542.840	15385.057
10	8838.434	8689.943	8630.089	9414.381	9472.326	8938.556	9008.748
15	4017.068	3773.640	3692.909	4118.314	4295.621	3619.521	3857.960
20	2182.635	2071.843	2079.194	2191.280	2230.179	2020.994	2134.552
25	1818.249	1799.353	1790.708	1818.194	1828.677	1797.565	1816.920
30	1717.252	1696.383	1682.633	1700.010	1702.429	1675.860	1714.491
35	1538.409	1458.618	1490.216	1492.882	1469.556	1465.193	1536.219
40	895.834	817.183	702.285	780.504	818.104	723.293	764.683
45	287.241	218.095	165.605	222.016	278.681	163.879	162.711

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50	83.972	89.610	92.115	88.016	87.282	85.747	74.438
55	59.592	54.616	56.561	56.021	55.323	47.269	46.421
60	49.263	51.075	53.976	45.751	43.954	46.829	45.717
65	43.454	46.529	48.425	41.747	33.195	30.501	28.622
70	44.647	39.448	42.790	23.530	30.058	21.436	24.378
75	44.624	40.151	40.666	24.096	23.620	20.754	21.074
80	47.204	43.855	45.507	19.756	20.964	17.642	14.041
85	40.290	36.952	32.598	8.273	9.880	6.321	7.268
90	26.609	23.015	0.000	0.000	0.000	0.000	0.000
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	2539.33	N.A.	53.10
0-30	3413.44	N.A.	71.30
0-40	4320.73	N.A.	90.30
0-60	4680.51	N.A.	97.80
0-80	4757.72	N.A.	99.40
0-90	4782.04	N.A.	99.90
10-90	3512.36	N.A.	73.40
20-40	1781.4	N.A.	37.20
20-50	2085.92	N.A.	43.60
40-70	401.39	N.A.	8.40
60-80	77.21	N.A.	1.60
70-80	35.60	N.A.	0.70
80-90	24.31	N.A.	0.50
90-110	3.08	N.A.	0.10
90-120	3.08	N.A.	0.10
90-130	3.08	N.A.	0.10
90-150	3.08	N.A.	0.10
90-180	3.08	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4785.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1269.67
10-20	1269.66
20-30	874.11
30-40	907.29
40-50	304.52
50-60	55.26
60-70	41.61
70-80	35.60
80-90	24.31
90-100	3.08
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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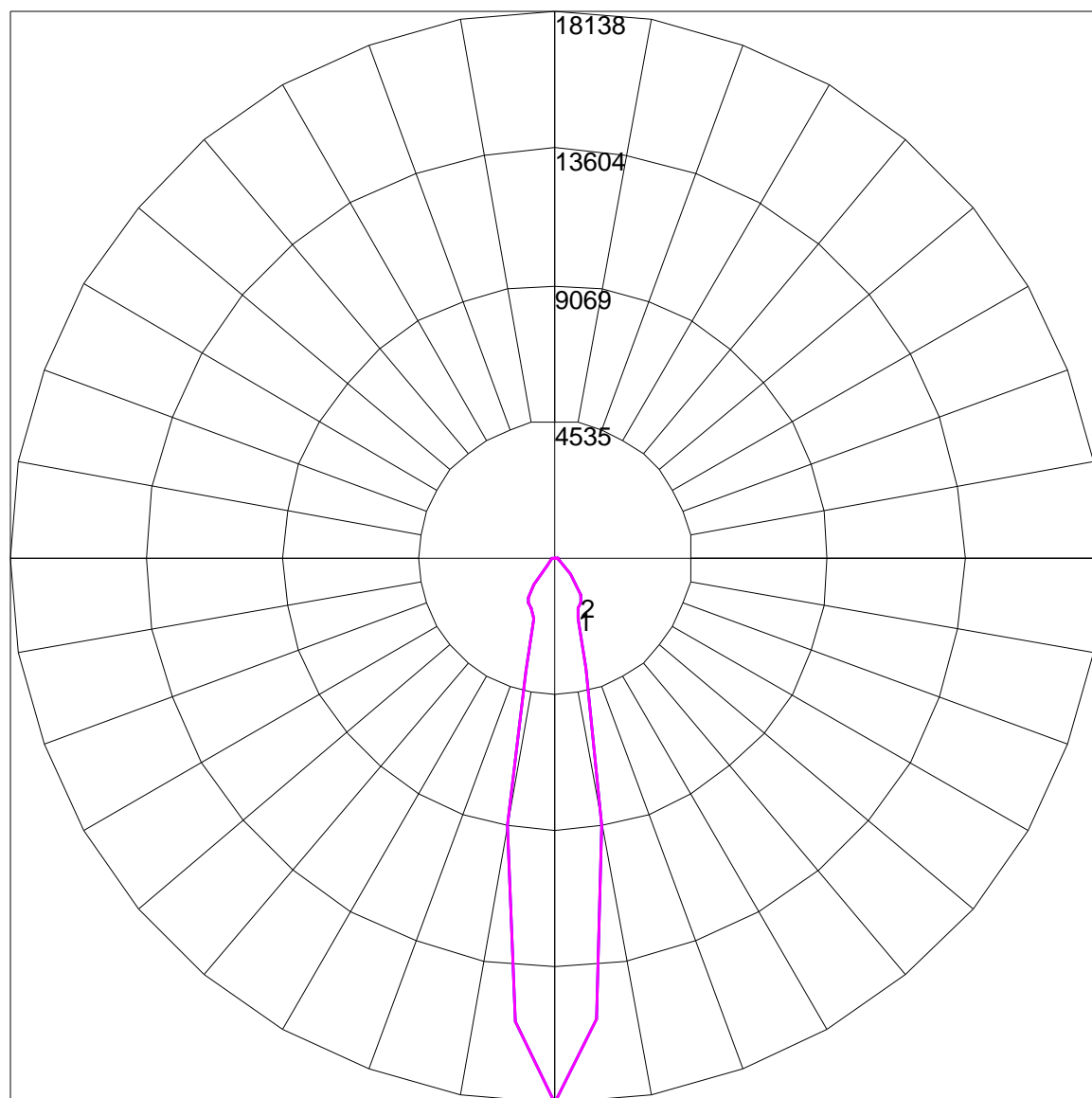
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 18138.211 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)