

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00629\_6 ~ C1216XT-50LXXK-WDEX-TCY-SOXXMW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_6\_M-50L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/20/2017  
 [UPDATE] 4/5/2018  
 [LUMCAT] C1216XT-50L-xxK-WD-EX-TCY-SO  
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Wide Beam  
 [OTHER] Solite Lens, Flush with Lower Trim  
 [OTHER] 72.2 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	4465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.74
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\_6 ~ C1216XT-50LXXK-WDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	49694	53802	49215
55	18088	19833	19139
65	13314	14238	13999
75	14895	14888	14874
85	15334	13761	13984

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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	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266
5	6073.906	6178.652	6175.690	6191.263	6151.440	6023.986	6010.995	5910.967	5895.119	5801.929
10	5430.391	5592.830	5583.587	5645.837	5543.895	5337.231	5311.457	5144.592	5114.743	4970.561
15	4517.317	4696.066	4685.407	4761.811	4622.456	4386.624	4356.165	4183.130	4144.771	3993.140
20	3553.122	3712.162	3695.422	3764.671	3613.908	3396.048	3349.035	3198.163	3164.129	3044.187
25	2687.759	2788.676	2790.967	2820.327	2704.956	2533.307	2474.093	2378.292	2326.609	2265.410
30	2003.827	2082.588	2082.805	2114.795	2014.104	1886.872	1864.536	1775.098	1755.709	1675.272
35	1448.968	1528.141	1505.683	1559.107	1470.611	1333.982	1318.565	1229.736	1228.846	1141.580
40	928.209	996.124	966.413	1000.348	932.023	812.936	782.063	728.544	708.278	664.791
45	501.367	550.073	542.822	543.442	496.536	433.748	427.259	386.187	361.374	347.156
50	257.473	280.789	289.146	286.157	258.388	236.319	228.282	210.762	208.992	196.159
55	148.028	158.698	162.309	168.985	156.635	145.012	140.872	134.594	137.929	133.087
60	105.639	107.840	109.017	112.936	107.530	104.581	106.101	103.251	106.478	101.727
65	80.286	86.899	85.854	86.081	84.412	88.363	90.428	90.303	87.049	87.117
70	71.379	68.015	72.434	70.417	69.641	76.492	80.706	77.961	78.336	78.707
75	55.006	55.309	54.979	56.203	54.929	73.040	72.154	68.002	68.569	71.793
80	38.196	41.342	38.544	42.295	39.336	63.214	60.110	61.934	59.360	58.265
85	19.069	18.927	17.113	20.164	17.390	38.118	40.503	38.501	36.637	40.246
90	4.017	1.767	3.869	2.165	4.901	18.837	15.461	24.538	14.153	25.167
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	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266	6254.266
5	5813.144	5747.941	5862.024	5947.544	5957.558	6063.006	6073.906
10	4996.521	4927.676	5072.174	5226.155	5234.257	5385.839	5430.391
15	4025.677	3968.587	4114.921	4299.492	4294.559	4469.697	4517.317
20	3068.250	3040.651	3178.527	3343.442	3347.214	3495.841	3553.122
25	2278.137	2270.674	2375.455	2501.844	2524.503	2630.113	2687.759
30	1694.132	1666.075	1760.755	1871.191	1879.444	1977.209	2003.827
35	1143.174	1129.918	1226.672	1317.844	1319.112	1418.772	1448.968
40	676.672	667.590	739.380	815.856	822.731	898.715	928.209
45	366.055	354.841	386.751	433.477	456.573	498.828	501.367

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<b>50</b>	199.342	196.689	214.928	229.178	238.571	261.697	257.473
<b>55</b>	126.290	129.738	139.201	138.296	132.857	146.204	148.028
<b>60</b>	99.443	101.022	104.021	100.895	98.680	100.252	105.639
<b>65</b>	87.024	91.265	90.421	83.242	82.590	81.321	80.286
<b>70</b>	76.614	82.081	80.614	67.202	68.184	70.139	71.379
<b>75</b>	67.400	68.092	74.672	48.750	54.939	57.668	55.006
<b>80</b>	55.836	58.327	60.697	40.013	38.548	36.051	38.196
<b>85</b>	36.732	40.908	38.931	14.826	17.483	17.592	19.069
<b>90</b>	15.333	19.324	28.506	1.605	3.547	2.487	4.017
<b>95</b>	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
<b>105</b>	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
<b>115</b>	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
<b>125</b>	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
<b>135</b>	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
<b>145</b>	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
<b>155</b>	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
<b>165</b>	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
<b>175</b>	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

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Zone	Lumens	%Lamp	%Fixt
0-20	1756.66	N.A.	39.30
0-30	2932.17	N.A.	65.70
0-40	3764.82	N.A.	84.30
0-60	4276.4	N.A.	95.80
0-80	4429.25	N.A.	99.20
0-90	4461.33	N.A.	99.90
10-90	3911.81	N.A.	87.60
20-40	2008.16	N.A.	45.00
20-50	2379.63	N.A.	53.30
40-70	598.65	N.A.	13.40
60-80	152.85	N.A.	3.40
70-80	65.78	N.A.	1.50
80-90	32.08	N.A.	0.70
90-110	3.18	N.A.	0.10
90-120	3.18	N.A.	0.10
90-130	3.18	N.A.	0.10
90-150	3.18	N.A.	0.10
90-180	3.18	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4464.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	549.52
10-20	1207.14
20-30	1175.51
30-40	832.65
40-50	371.47
50-60	140.11
60-70	87.07
70-80	65.78
80-90	32.08
90-100	3.18
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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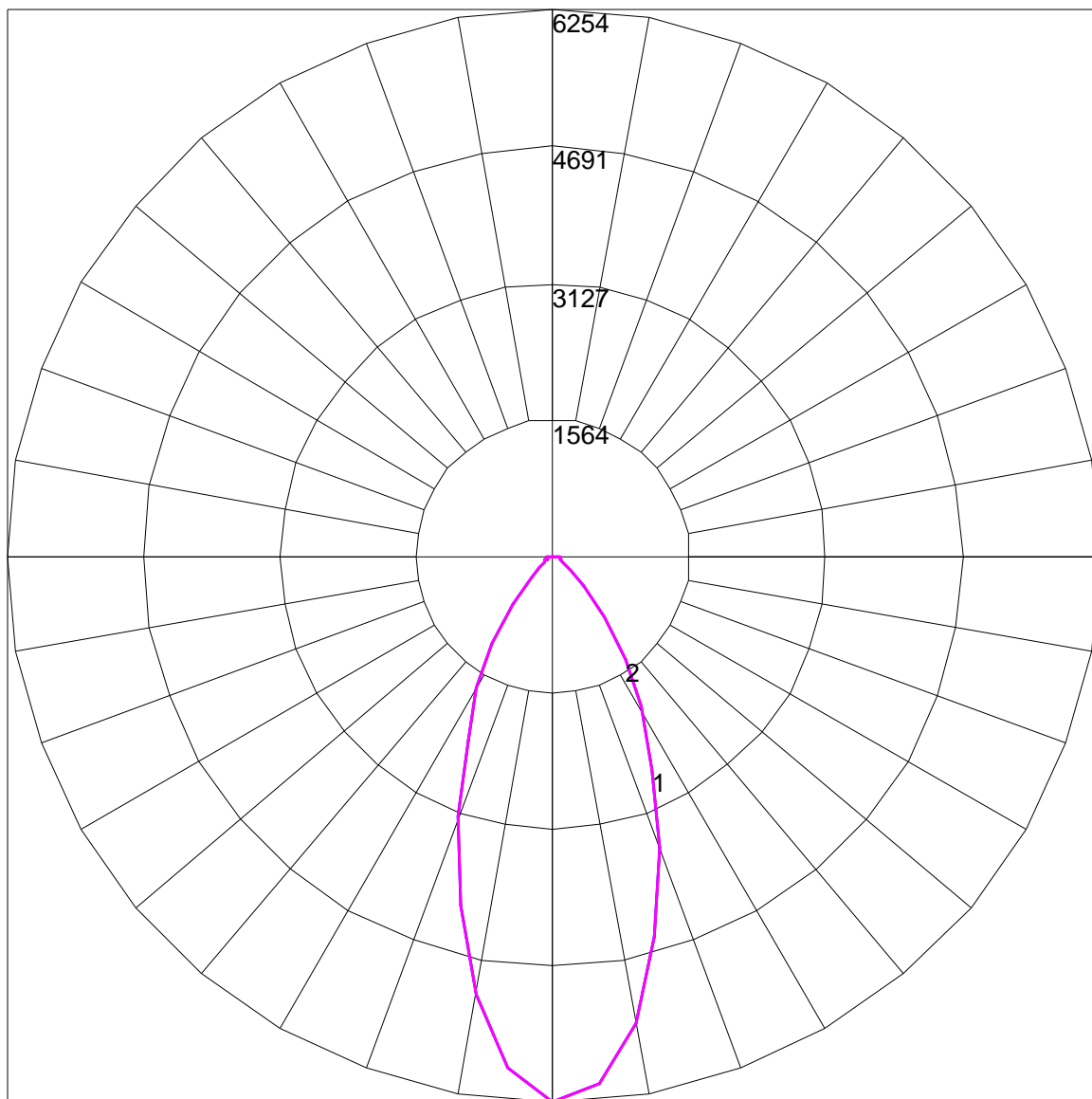
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	75	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	63	58	54	63	57	54	62	57	53	61	56	53	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 6254.266 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)