

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_8 ~ C1216XT-50LXXK-WDEX-TCY-GLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_8_M-50L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 4/9/2018
 [LUMCAT] C1216XT-50L-xxK-WD-EX-TCY-GL
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Wide Beam
 [OTHER] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 40.2 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	4629
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.70
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_8 ~ C1216XT-50LXXK-WDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	42999	50556	44986
55	10437	10031	10093
65	10412	10789	10983
75	13716	15185	15419
85	13220	17771	14969

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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	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898
5	6996.748	7076.782	7068.425	7049.712	6934.073	6744.332	6683.933	6520.424	6480.183	6361.152
10	6186.691	6341.843	6308.692	6321.219	6123.451	5859.045	5786.937	5554.918	5490.971	5322.651
15	5035.494	5207.490	5154.471	5204.859	5010.724	4747.451	4705.291	4474.056	4413.564	4241.080
20	3823.435	3979.623	3916.053	3970.709	3796.743	3568.897	3559.042	3370.532	3330.369	3188.459
25	2734.757	2852.844	2785.242	2828.587	2720.812	2560.427	2560.539	2434.584	2410.939	2309.497
30	1971.028	2037.914	2000.455	2030.458	1981.398	1889.746	1894.461	1825.318	1815.988	1757.960
35	1564.101	1610.009	1580.859	1610.757	1563.684	1503.956	1519.461	1443.985	1443.195	1369.316
40	1091.052	1190.183	1170.317	1238.893	1114.958	968.390	961.247	845.966	829.219	740.060
45	433.823	501.329	510.067	484.507	453.877	347.488	314.290	271.844	257.552	225.492
50	121.216	143.554	118.127	126.262	110.049	106.853	107.748	98.996	92.293	91.690
55	85.419	82.610	82.095	81.861	82.600	87.733	84.257	89.151	84.100	84.924
60	73.035	71.864	72.139	68.522	71.429	77.739	78.741	80.688	79.296	78.791
65	62.783	65.908	65.055	66.355	66.227	73.093	77.227	75.170	70.554	72.935
70	56.435	59.047	58.905	56.580	60.260	75.242	72.946	76.427	71.444	76.275
75	50.652	59.215	56.078	53.232	56.941	73.711	72.845	75.368	72.439	73.063
80	38.914	44.191	43.967	41.327	43.650	65.258	64.340	60.839	65.930	63.523
85	16.440	22.141	22.099	23.171	18.615	43.030	43.214	41.387	41.268	39.876
90	3.612	2.757	3.257	2.030	3.851	25.232	17.887	22.489	23.276	23.090
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	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898	7105.898
5	6406.378	6392.979	6557.561	6753.069	6807.503	6949.261	6996.748
10	5366.772	5332.703	5542.807	5806.046	5878.104	6121.648	6186.691
15	4290.725	4238.148	4431.240	4674.663	4730.664	4975.495	5035.494
20	3227.062	3198.211	3346.039	3556.316	3586.127	3789.473	3823.435
25	2315.720	2297.901	2397.369	2557.328	2568.419	2716.825	2734.757
30	1754.808	1735.922	1784.439	1876.140	1879.234	1958.067	1971.028
35	1425.000	1344.712	1456.293	1512.921	1503.304	1569.246	1564.101
40	756.830	742.675	831.531	964.743	980.399	1087.581	1091.052
45	184.829	205.848	207.677	322.031	351.010	413.408	433.823

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50	98.438	97.404	98.836	111.474	100.485	121.893	121.216
55	82.436	85.484	87.941	81.010	81.203	84.554	85.419
60	76.002	78.436	78.191	73.116	69.089	74.767	73.035
65	75.222	75.032	73.628	65.630	65.396	66.112	62.783
70	74.678	73.466	71.956	57.225	57.301	57.113	56.435
75	72.068	69.692	72.106	52.524	49.748	52.179	50.652
80	62.851	61.271	65.833	39.183	42.193	39.895	38.914
85	39.350	40.997	41.385	15.008	16.742	17.463	16.440
90	18.075	25.762	15.636	2.827	2.682	3.379	3.612
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	1925.02	N.A.	41.60
0-30	3132.62	N.A.	67.70
0-40	4043.84	N.A.	87.40
0-60	4457.02	N.A.	96.30
0-80	4591.4	N.A.	99.20
0-90	4625.52	N.A.	99.90
10-90	4010.35	N.A.	86.60
20-40	2118.82	N.A.	45.80
20-50	2453.15	N.A.	53.00
40-70	482.77	N.A.	10.40
60-80	134.38	N.A.	2.90
70-80	64.79	N.A.	1.40
80-90	34.11	N.A.	0.70
90-110	3.35	N.A.	0.10
90-120	3.35	N.A.	0.10
90-130	3.35	N.A.	0.10
90-150	3.35	N.A.	0.10
90-180	3.35	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4628.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	615.16
10-20	1309.86
20-30	1207.6
30-40	911.22
40-50	334.32
50-60	78.86
60-70	69.59
70-80	64.79
80-90	34.11
90-100	3.35
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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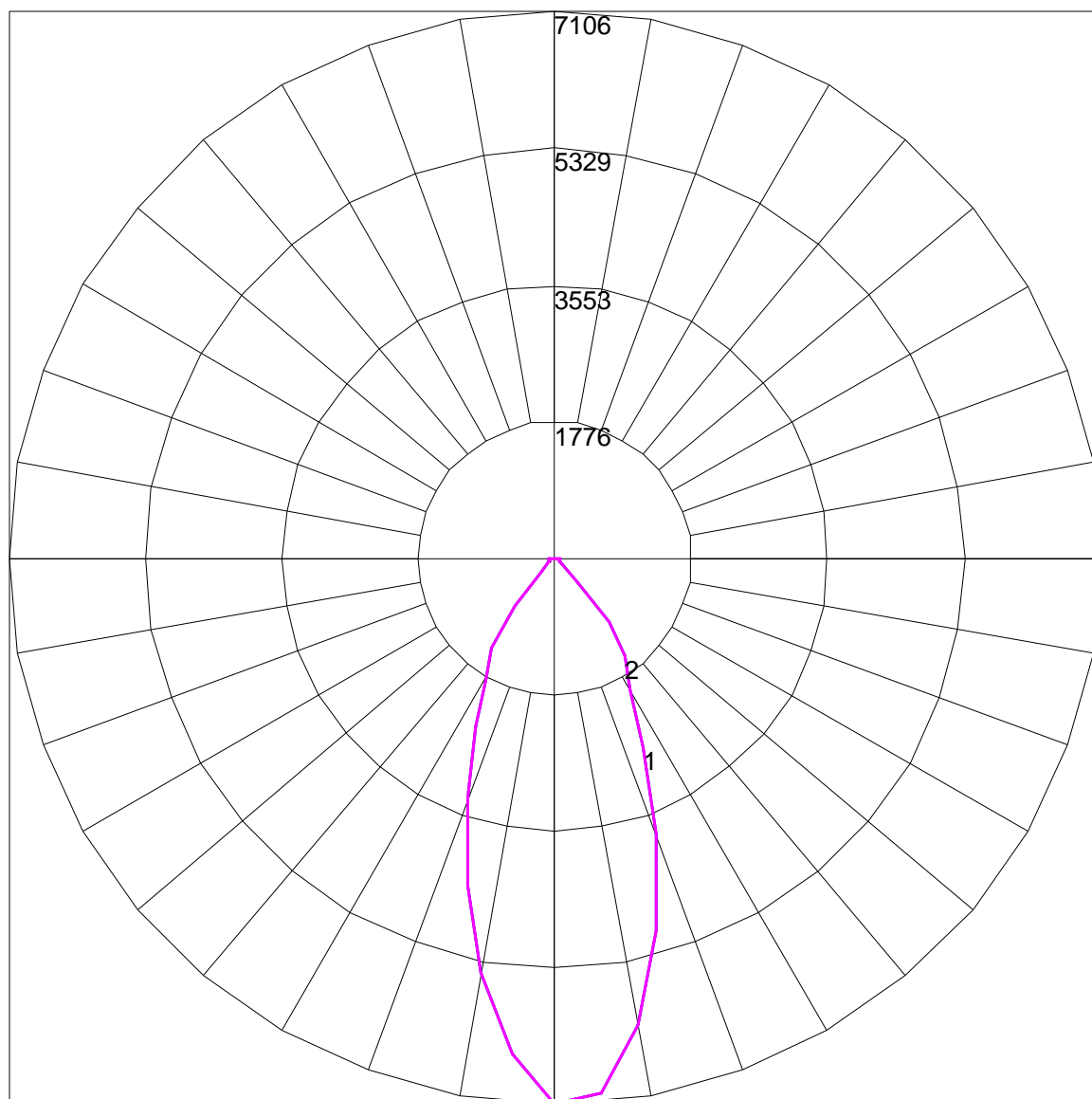
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	66	61	58	57
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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POLAR GRAPH



Maximum Candela = 7105.898 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)