

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_7 ~ C1216XT-40LXXK-WDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_7_M-40L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-40L-xxK-WD-EX-TCY-NL

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

[OTHER] Internal Reflector, Wide Beam

[OTHER] No lens

[OTHER] 38.0 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	3666
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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_7 ~ C1216XT-40LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27536	32529	30614
55	5005	5310	5054
65	5577	5798	6236
75	6830	7332	7455
85	13255	11228	12213

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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	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659
5	5929.681	6008.335	5976.850	5984.243	5882.032	5738.138	5748.676	5607.529	5615.690	5502.124
10	5148.145	5281.272	5215.214	5245.855	5070.723	4851.590	4835.712	4654.988	4647.343	4498.830
15	4115.266	4273.034	4194.294	4236.762	4052.090	3832.739	3813.138	3637.152	3615.087	3484.548
20	3047.933	3206.874	3147.631	3211.332	3063.682	2883.634	2872.946	2712.963	2693.383	2565.670
25	2151.971	2280.971	2245.309	2323.661	2218.757	2082.628	2077.013	1946.498	1932.969	1834.941
30	1579.402	1652.367	1642.608	1691.358	1630.708	1542.586	1528.760	1463.333	1446.955	1400.619
35	1275.507	1305.949	1321.575	1336.257	1305.450	1241.209	1207.562	1168.155	1129.032	1085.784
40	840.044	939.991	936.282	963.937	880.688	760.428	774.405	634.048	639.681	518.029
45	277.813	376.510	328.195	405.869	308.866	234.885	227.790	170.703	157.083	127.743
50	60.419	60.333	73.621	71.273	66.136	54.175	50.541	46.402	49.091	46.927
55	40.958	40.198	43.455	42.902	41.365	45.203	47.289	45.421	46.461	43.349
60	38.532	36.127	38.008	39.274	39.625	44.027	45.626	46.541	45.123	43.635
65	33.630	34.197	34.963	33.592	37.602	43.396	43.445	45.735	45.276	44.018
70	25.941	30.460	31.128	29.414	31.478	44.302	43.042	42.853	42.883	39.226
75	25.222	25.702	27.076	28.948	27.529	42.598	43.759	41.451	43.444	42.410
80	21.448	25.078	22.648	22.759	24.315	40.952	41.559	42.895	47.214	43.686
85	16.484	15.329	13.963	17.646	15.188	35.152	35.982	32.425	34.604	32.518
90	2.748	1.401	3.055	1.513	3.723	21.163	12.876	19.880	12.242	22.515
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	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659	6120.659
5	5558.227	5488.822	5623.969	5780.839	5803.790	5906.452	5929.681
10	4558.079	4485.580	4659.043	4896.129	4927.491	5115.087	5148.145
15	3511.917	3459.661	3610.957	3842.449	3873.562	4078.318	4115.266
20	2604.201	2531.074	2658.839	2844.344	2848.509	3025.505	3047.933
25	1847.774	1804.506	1886.326	2016.034	2014.297	2139.314	2151.971
30	1397.096	1381.823	1420.276	1492.701	1495.668	1568.011	1579.402
35	1080.753	1054.249	1101.907	1178.999	1215.940	1243.827	1275.507
40	564.696	496.593	603.675	718.996	714.677	831.724	840.044
45	110.854	120.693	141.798	203.671	196.273	283.430	277.813

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50	48.640	46.157	47.703	43.532	51.729	47.847	60.419
55	43.336	42.862	44.587	40.391	40.792	37.913	40.958
60	42.553	42.132	41.647	35.565	35.543	38.636	38.532
65	41.798	39.496	38.920	29.669	31.156	35.590	33.630
70	40.151	37.319	39.323	25.747	26.798	28.067	25.941
75	41.225	40.885	40.316	24.305	23.004	27.179	25.222
80	42.452	42.860	41.751	20.673	22.937	19.068	21.448
85	31.008	34.962	33.210	12.180	12.103	14.924	16.484
90	14.286	23.052	26.879	1.302	2.034	1.463	2.748
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	1594.66	N.A.	43.50
0-30	2562.6	N.A.	69.90
0-40	3287.74	N.A.	89.70
0-60	3564.72	N.A.	97.20
0-80	3638.34	N.A.	99.20
0-90	3663.34	N.A.	99.90
10-90	3140.67	N.A.	85.70
20-40	1693.09	N.A.	46.20
20-50	1929.64	N.A.	52.60
40-70	314.72	N.A.	8.60
60-80	73.62	N.A.	2.00
70-80	35.87	N.A.	1.00
80-90	25.00	N.A.	0.70
90-110	2.91	N.A.	0.10
90-120	2.91	N.A.	0.10
90-130	2.91	N.A.	0.10
90-150	2.91	N.A.	0.10
90-180	2.91	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3666.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	522.67
10-20	1071.99
20-30	967.95
30-40	725.14
40-50	236.55
50-60	40.42
60-70	37.75
70-80	35.87
80-90	25.00
90-100	2.91
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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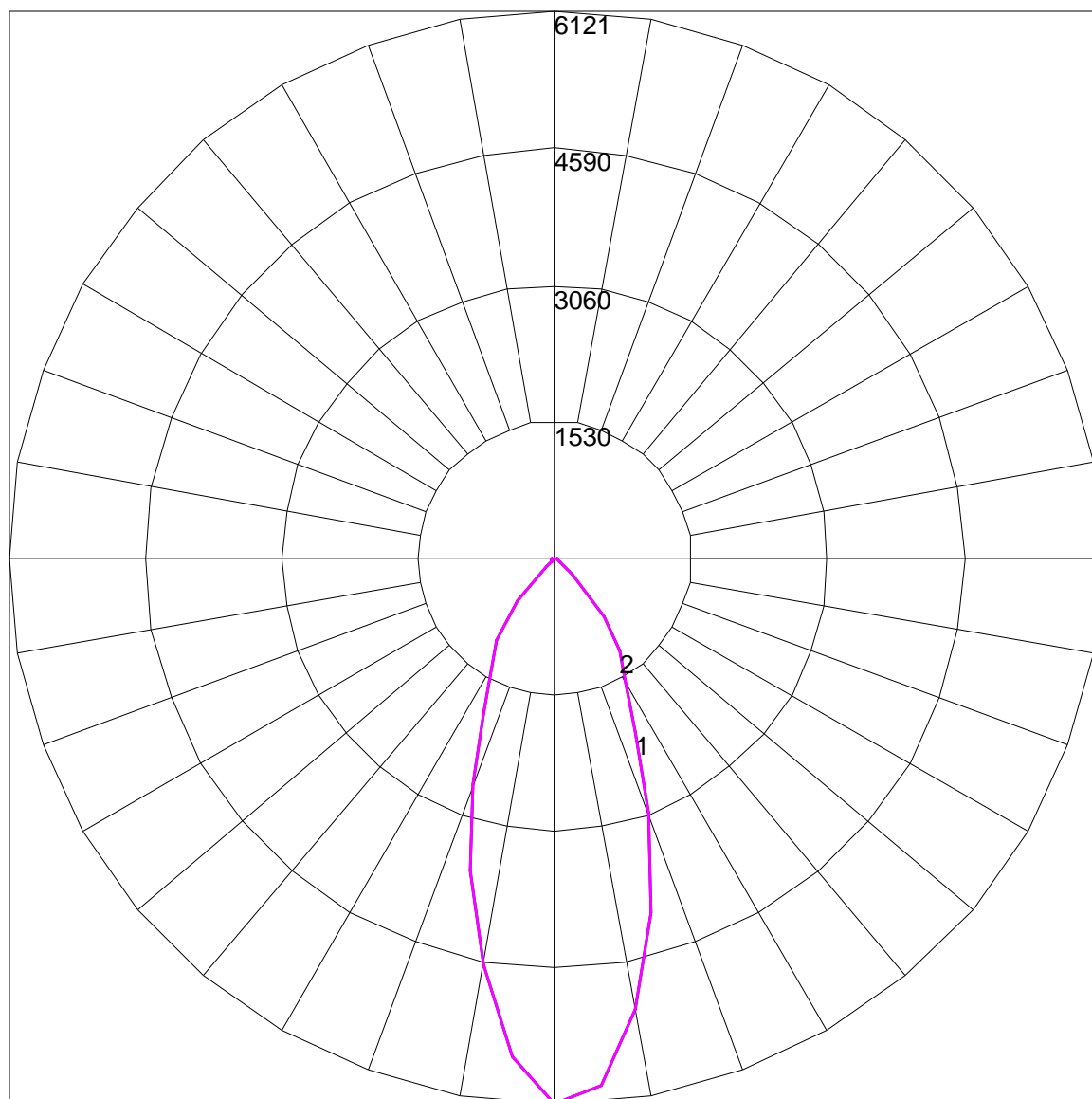
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	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	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 6120.659 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)