

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-40LXXK-MDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_5_M-40L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-40L-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	3683
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)	0.34
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-40LXXK-MDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12412	22814	31519
55	4366	4693	5085
65	3653	4034	4575
75	4392	4733	5053
85	4498	5286	6601

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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	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002
5	11841.048	11750.553	11404.500	11456.101	11500.950	12213.217	12147.919	12188.236	11936.786	11803.515
10	6933.548	6815.591	6802.657	6649.389	6685.029	7251.016	7292.612	6916.444	6959.601	6855.641
15	2969.264	2950.081	3132.142	3024.335	2983.062	3171.599	3283.933	2906.884	2994.793	2931.872
20	1642.849	1660.985	1732.659	1734.000	1723.812	1686.859	1714.962	1672.066	1672.115	1634.380
25	1398.385	1417.266	1447.609	1468.900	1478.918	1415.942	1404.604	1455.730	1437.690	1405.488
30	1319.551	1339.984	1366.092	1388.767	1404.881	1352.105	1331.290	1392.596	1373.037	1341.442
35	1182.345	1229.018	1220.973	1301.615	1287.067	1237.166	1229.499	1300.703	1256.165	1213.275
40	588.535	660.624	731.266	857.680	913.021	841.815	797.909	959.867	877.049	797.322
45	125.230	127.706	230.173	236.128	318.002	305.777	296.168	325.836	305.020	244.692
50	57.291	50.380	57.703	51.244	65.152	88.388	85.642	67.003	76.843	69.678
55	35.728	37.430	38.405	42.271	41.619	47.285	50.450	44.112	43.136	45.305
60	35.186	33.044	33.150	36.233	35.771	44.307	46.786	44.328	40.273	41.995
65	22.029	25.722	24.324	30.526	27.586	39.539	41.565	35.675	38.792	37.552
70	18.763	18.134	18.251	18.103	21.953	37.252	40.255	33.742	36.001	33.828
75	16.220	15.606	17.478	17.764	18.661	38.537	36.607	34.673	35.562	35.463
80	10.807	14.107	14.195	16.635	15.973	37.052	34.347	36.319	33.509	31.822
85	5.594	5.977	6.573	7.142	8.209	24.190	29.884	28.634	33.263	29.848
90	0.000	0.000	0.000	0.000	3.033	19.584	18.134	19.803	20.003	19.654
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	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002	13960.002
5	11441.844	11402.474	11382.169	12145.785	12086.667	11962.485	11841.048
10	6802.466	6688.180	6642.114	7245.741	7290.338	6879.524	6933.548
15	3091.721	2904.367	2842.232	3169.644	3306.108	2785.750	2969.264
20	1679.856	1594.586	1600.244	1686.510	1716.449	1555.450	1642.849
25	1399.408	1384.865	1378.211	1399.366	1407.434	1383.488	1398.385
30	1321.676	1305.614	1295.032	1308.406	1310.268	1289.819	1319.551
35	1184.031	1122.620	1146.939	1148.991	1131.038	1127.680	1182.345
40	689.475	628.942	540.511	600.712	629.650	556.680	588.535
45	221.074	167.856	127.457	170.874	214.486	126.129	125.230

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50	64.629	68.968	70.896	67.741	67.177	65.995	57.291
55	45.865	42.035	43.532	43.116	42.579	36.381	35.728
60	37.915	39.310	41.542	35.212	33.829	36.042	35.186
65	33.444	35.811	37.270	32.130	25.548	23.475	22.029
70	34.363	30.361	32.933	18.110	23.134	16.498	18.763
75	34.345	30.902	31.299	18.546	18.179	15.973	16.220
80	36.331	33.753	35.025	15.205	16.135	13.578	10.807
85	31.009	28.440	25.089	6.368	7.604	4.865	5.594
90	20.479	17.713	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	1954.39	N.A.	53.10
0-30	2627.14	N.A.	71.30
0-40	3325.43	N.A.	90.30
0-60	3602.34	N.A.	97.80
0-80	3661.76	N.A.	99.40
0-90	3680.47	N.A.	99.90
10-90	2703.28	N.A.	73.40
20-40	1371.05	N.A.	37.20
20-50	1605.42	N.A.	43.60
40-70	308.93	N.A.	8.40
60-80	59.43	N.A.	1.60
70-80	27.40	N.A.	0.70
80-90	18.71	N.A.	0.50
90-110	2.37	N.A.	0.10
90-120	2.37	N.A.	0.10
90-130	2.37	N.A.	0.10
90-150	2.37	N.A.	0.10
90-180	2.37	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3682.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	977.20
10-20	977.19
20-30	672.76
30-40	698.29
40-50	234.37
50-60	42.53
60-70	32.03
70-80	27.40
80-90	18.71
90-100	2.37
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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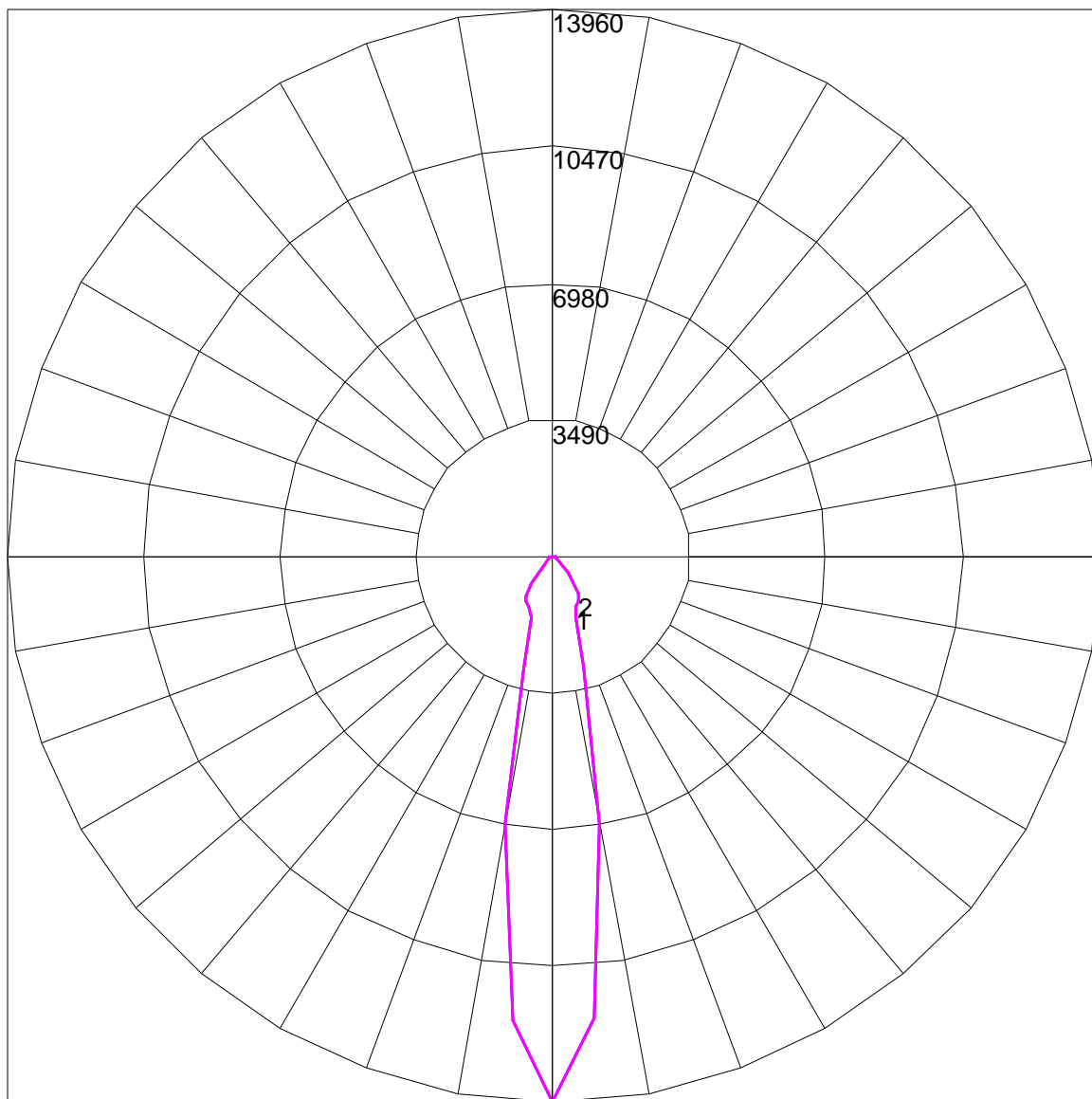
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	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 = 13960.002 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)