

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_4 ~ C1216XT-40LXXK-MDEX-TCY-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_4\_M-40L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/20/2017  
 [UPDATE] 4/5/2018  
 [LUMCAT] C1216XT-40L-xxK-MD-EX-TCY-SO  
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Medium Beam  
 [OTHER] Solite Lens, Flush with Lower Trim  
 [OTHER] 25.2 Degree Beam Angle  
 [OTHER] Aimed at 0 Degrees (Nadir)  
 [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	3529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
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\_4 ~ C1216XT-40LXXK-MDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33465	35460	35229
55	12661	13217	13078
65	8865	8782	8993
75	8764	9033	9844
85	7063	6282	7735

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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	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343
5	8049.143	8147.205	8016.673	8136.696	8078.725	8033.560	8127.877	8024.969	8150.809	8065.905
10	5675.046	5822.543	5656.729	5821.629	5714.763	5643.178	5763.290	5637.639	5812.408	5687.040
15	3453.274	3570.871	3465.776	3614.675	3504.264	3414.479	3500.070	3430.171	3558.558	3418.657
20	2114.354	2173.085	2137.999	2247.459	2160.138	2070.308	2110.848	2104.269	2167.806	2042.491
25	1512.787	1540.571	1537.030	1596.872	1543.874	1481.168	1492.822	1502.375	1520.800	1444.999
30	1218.927	1254.720	1249.529	1293.572	1257.925	1225.464	1235.108	1219.751	1220.220	1174.159
35	940.463	977.013	966.123	1015.266	986.541	965.397	975.982	946.440	948.282	902.608
40	614.338	647.028	635.493	666.675	645.813	636.213	645.910	611.731	620.298	593.552
45	337.637	368.062	357.763	366.294	355.435	359.988	362.423	335.452	347.173	339.252
50	175.911	196.707	191.145	194.614	187.050	194.095	192.836	182.242	189.476	182.207
55	103.619	109.790	108.168	112.511	107.029	112.556	110.819	113.333	117.855	108.730
60	70.344	70.299	71.000	74.760	70.656	76.641	79.801	81.689	85.376	78.354
65	53.457	54.524	52.955	56.805	54.231	63.483	63.815	67.375	68.383	65.668
70	42.738	43.922	40.860	45.997	43.976	56.431	58.745	60.565	58.078	58.974
75	32.366	32.643	33.358	36.830	36.354	47.819	51.353	52.189	52.353	52.482
80	20.116	21.371	20.456	23.045	23.374	39.246	39.869	42.526	44.434	41.822
85	8.783	8.995	7.812	8.570	9.619	26.010	26.686	30.815	28.444	29.201
90	2.386	1.854	2.615	2.221	2.365	15.431	12.534	16.843	13.736	16.048
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	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343	9145.343
5	8207.634	8078.140	8145.327	8158.788	8066.812	8166.350	8049.143
10	5874.908	5696.966	5771.259	5786.304	5652.911	5817.562	5675.046
15	3549.538	3429.109	3479.179	3464.078	3372.795	3538.451	3453.274
20	2099.474	2059.470	2081.390	2047.080	2008.306	2140.342	2114.354
25	1464.634	1460.438	1467.628	1447.398	1434.687	1509.348	1512.787
30	1188.933	1178.140	1186.665	1184.027	1173.837	1217.478	1218.927
35	920.904	903.296	909.367	909.167	900.270	942.511	940.463
40	612.430	585.575	593.889	597.732	590.682	617.707	614.338
45	346.578	323.738	327.819	339.642	335.194	335.416	337.637

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50	184.175	171.993	172.648	175.885	175.294	175.935	175.911
55	109.374	103.518	104.423	96.927	97.779	102.649	103.619
60	77.571	76.849	72.615	65.129	65.550	64.375	70.344
65	63.621	62.954	62.787	49.567	51.346	54.018	53.457
70	56.648	54.240	56.131	40.228	41.637	44.053	42.738
75	48.751	49.481	45.756	29.794	30.956	36.243	32.366
80	42.463	39.437	38.382	19.215	21.490	21.996	20.116
85	28.878	27.279	27.164	7.668	7.865	6.942	8.783
90	13.463	15.587	13.790	2.363	2.094	1.859	2.386
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_4 ~ C1216XT-40LXXK-MDEX-TCY-SOXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1709.78	N.A.	48.50
0-30	2431.71	N.A.	68.90
0-40	3010.99	N.A.	85.30
0-60	3402.15	N.A.	96.40
0-80	3505.7	N.A.	99.30
0-90	3526.4	N.A.	99.90
10-90	2824.99	N.A.	80.10
20-40	1301.21	N.A.	36.90
20-50	1587.13	N.A.	45.00
40-70	451.13	N.A.	12.80
60-80	103.55	N.A.	2.90
70-80	43.58	N.A.	1.20
80-90	20.70	N.A.	0.60
90-110	2.31	N.A.	0.10
90-120	2.31	N.A.	0.10
90-130	2.31	N.A.	0.10
90-150	2.31	N.A.	0.10
90-180	2.31	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3528.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	701.41
10-20	1008.37
20-30	721.93
30-40	579.28
40-50	285.92
50-60	105.24
60-70	59.97
70-80	43.58
80-90	20.70
90-100	2.31
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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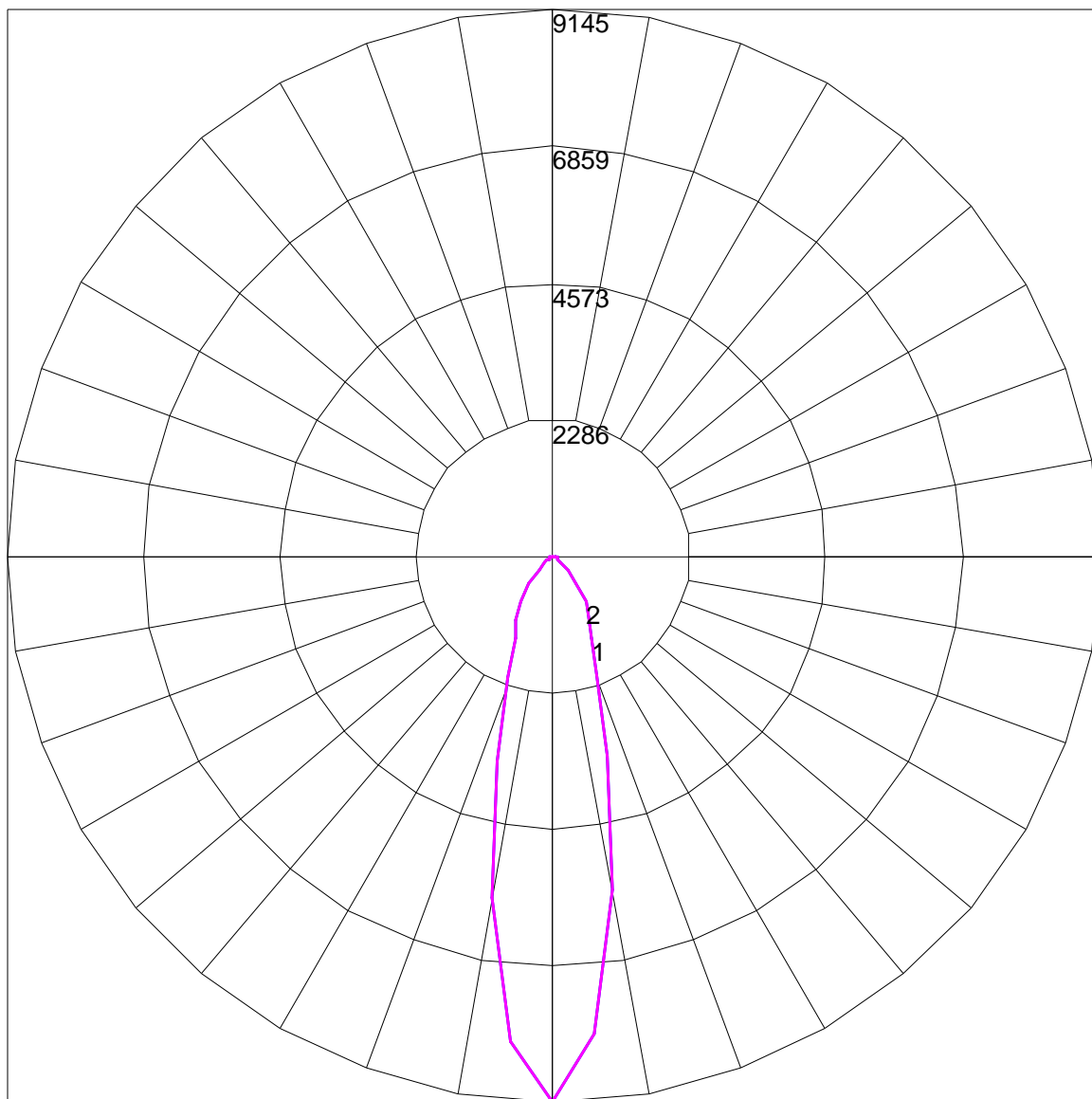
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	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	81	77	82	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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POLAR GRAPH



Maximum Candela = 9145.343 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)