

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_8 ~ C1216XT-40LXXK-WDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_8\_M-40L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 4/9/2018

[LUMCAT] C1216XT-40L-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	3563
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	37.9
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-40LXXK-WDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33094	38910	34624
55	8033	7720	7768
65	8013	8303	8453
75	10556	11687	11867
85	10175	13678	11521

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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>
<b>0</b>	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026
<b>5</b>	5385.019	5446.617	5440.186	5425.783	5336.782	5190.749	5144.263	5018.419	4987.447	4895.836
<b>10</b>	4761.562	4880.975	4855.460	4865.101	4712.890	4509.391	4453.893	4275.320	4226.104	4096.557
<b>15</b>	3875.548	4007.924	3967.118	4005.899	3856.484	3653.857	3621.409	3443.440	3396.882	3264.130
<b>20</b>	2942.691	3062.901	3013.975	3056.041	2922.148	2746.788	2739.202	2594.117	2563.206	2453.985
<b>25</b>	2104.795	2195.680	2143.651	2177.011	2094.063	1970.623	1970.709	1873.768	1855.570	1777.495
<b>30</b>	1516.994	1568.473	1539.642	1562.734	1524.975	1454.436	1458.064	1404.849	1397.668	1353.007
<b>35</b>	1203.804	1239.137	1216.702	1239.713	1203.484	1157.514	1169.447	1111.358	1110.750	1053.888
<b>40</b>	839.723	916.020	900.730	953.509	858.123	745.318	739.820	651.094	638.205	569.584
<b>45</b>	333.890	385.846	392.571	372.899	349.325	267.443	241.892	209.224	198.223	173.549
<b>50</b>	93.293	110.486	90.916	97.177	84.699	82.239	82.928	76.192	71.033	70.569
<b>55</b>	65.742	63.580	63.184	63.004	63.573	67.523	64.848	68.615	64.727	65.361
<b>60</b>	56.211	55.310	55.522	52.738	54.975	59.831	60.603	62.101	61.030	60.641
<b>65</b>	48.320	50.726	50.069	51.070	50.971	56.256	59.438	57.854	54.302	56.134
<b>70</b>	43.435	45.445	45.336	43.546	46.379	57.909	56.143	58.822	54.987	58.705
<b>75</b>	38.984	45.575	43.160	40.970	43.825	56.732	56.065	58.007	55.753	56.233
<b>80</b>	29.950	34.011	33.839	31.807	33.595	50.226	49.519	46.824	50.743	48.890
<b>85</b>	12.653	17.041	17.009	17.834	14.327	33.118	33.259	31.853	31.762	30.691
<b>90</b>	2.780	2.122	2.507	1.563	2.964	19.419	13.767	17.309	17.915	17.771
<b>95</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	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	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>
<b>0</b>	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026	5469.026
<b>5</b>	4930.643	4920.331	5047.001	5197.473	5239.368	5348.472	5385.019
<b>10</b>	4130.515	4104.294	4265.999	4468.600	4524.059	4711.502	4761.562
<b>15</b>	3302.339	3261.874	3410.486	3597.836	3640.937	3829.370	3875.548
<b>20</b>	2483.696	2461.491	2575.266	2737.105	2760.049	2916.553	2942.691
<b>25</b>	1782.285	1768.571	1845.126	1968.237	1976.773	2090.994	2104.795
<b>30</b>	1350.581	1336.046	1373.386	1443.964	1446.345	1507.018	1516.994
<b>35</b>	1096.746	1034.952	1120.830	1164.414	1157.012	1207.764	1203.804
<b>40</b>	582.491	571.597	639.985	742.511	754.561	837.052	839.723
<b>45</b>	142.253	158.430	159.837	247.850	270.154	318.178	333.890

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50	75.762	74.967	76.069	85.795	77.338	93.814	93.293
55	63.447	65.792	67.683	62.349	62.497	65.076	65.742
60	58.495	60.368	60.179	56.274	53.174	57.544	56.211
65	57.894	57.748	56.668	50.512	50.332	50.882	48.320
70	57.476	56.543	55.381	44.043	44.102	43.957	43.435
75	55.467	53.638	55.496	40.425	38.289	40.159	38.984
80	48.373	47.157	50.668	30.157	32.474	30.705	29.950
85	30.285	31.553	31.852	11.551	12.885	13.441	12.653
90	13.912	19.827	12.035	2.176	2.064	2.601	2.780
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\_8 ~ C1216XT-40LXXK-WDEX-TCY-GLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1481.58	N.A.	41.60
0-30	2411.01	N.A.	67.70
0-40	3112.33	N.A.	87.40
0-60	3430.33	N.A.	96.30
0-80	3533.76	N.A.	99.20
0-90	3560.01	N.A.	99.90
10-90	3086.55	N.A.	86.60
20-40	1630.74	N.A.	45.80
20-50	1888.05	N.A.	53.00
40-70	371.56	N.A.	10.40
60-80	103.43	N.A.	2.90
70-80	49.87	N.A.	1.40
80-90	26.25	N.A.	0.70
90-110	2.58	N.A.	0.10
90-120	2.58	N.A.	0.10
90-130	2.58	N.A.	0.10
90-150	2.58	N.A.	0.10
90-180	2.58	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3562.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	473.46
10-20	1008.13
20-30	929.43
30-40	701.32
40-50	257.31
50-60	60.69
60-70	53.56
70-80	49.87
80-90	26.25
90-100	2.58
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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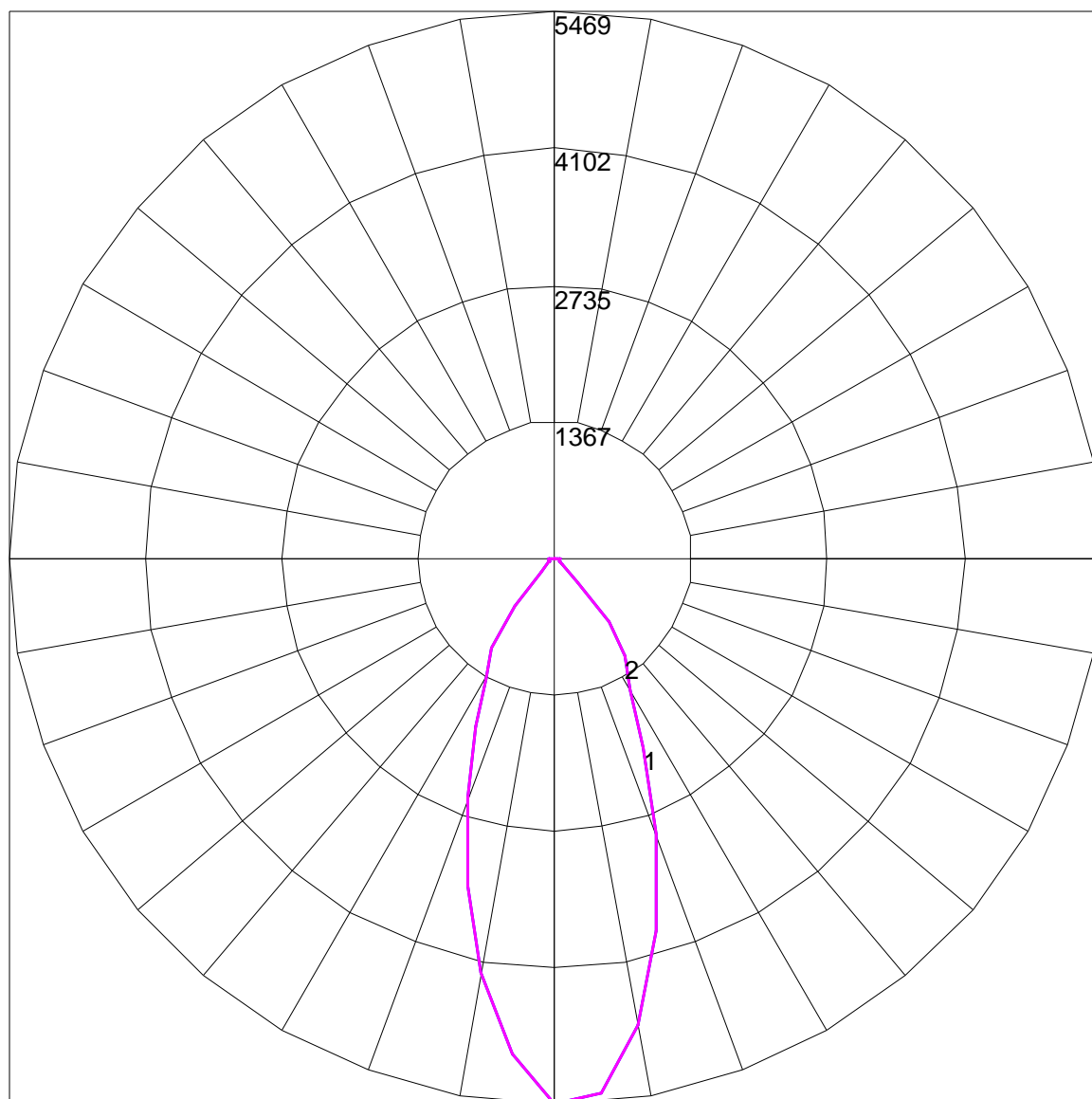
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	85	99	93	88	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	65	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 = 5469.026 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)