

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_6_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 3/9/2018
 [LUMCAT] C1216XT-13L-xxK-WD-EX-TCY-SO
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Wide Beam
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 72.2 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	1160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.74
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_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12917	13985	12792
55	4702	5155	4975
65	3461	3701	3639
75	3872	3870	3866
85	3986	3577	3635

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES

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	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659
5	1578.778	1606.005	1605.235	1609.283	1598.932	1565.803	1562.426	1536.426	1532.306	1508.084
10	1411.511	1453.733	1451.331	1467.511	1441.014	1387.296	1380.596	1337.224	1329.465	1291.988
15	1174.177	1220.639	1217.868	1237.728	1201.506	1140.206	1132.289	1087.313	1077.342	1037.929
20	923.556	964.895	960.544	978.543	939.356	882.728	870.508	831.292	822.446	791.269
25	698.624	724.855	725.450	733.082	703.094	658.477	643.086	618.185	604.751	588.843
30	520.851	541.323	541.379	549.694	523.522	490.451	484.645	461.398	456.358	435.450
35	376.627	397.207	391.369	405.256	382.253	346.739	342.732	319.643	319.411	296.729
40	241.267	258.921	251.198	260.019	242.259	211.305	203.280	189.369	184.101	172.798
45	130.319	142.979	141.095	141.256	129.064	112.743	111.057	100.381	93.931	90.236
50	66.924	72.985	75.157	74.380	67.162	61.426	59.337	54.783	54.323	50.987
55	38.477	41.250	42.189	43.924	40.714	37.693	36.616	34.985	35.852	34.593
60	27.459	28.031	28.337	29.355	27.950	27.184	27.579	26.838	27.677	26.442
65	20.869	22.587	22.316	22.375	21.941	22.968	23.505	23.472	22.626	22.644
70	18.553	17.679	18.828	18.303	18.102	19.882	20.978	20.264	20.362	20.458
75	14.298	14.376	14.291	14.609	14.278	18.985	18.755	17.676	17.823	18.661
80	9.928	10.746	10.019	10.994	10.225	16.431	15.624	16.098	15.429	15.145
85	4.957	4.920	4.448	5.241	4.520	9.908	10.528	10.007	9.523	10.461
90	1.044	0.459	1.006	0.563	1.274	4.896	4.019	6.378	3.679	6.542
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	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659	1625.659
5	1510.999	1494.051	1523.704	1545.933	1548.536	1575.945	1578.778
10	1298.736	1280.841	1318.400	1358.424	1360.530	1399.930	1411.511
15	1046.386	1031.547	1069.583	1117.558	1116.276	1161.799	1174.177
20	797.524	790.350	826.188	869.054	870.035	908.667	923.556
25	592.152	590.212	617.447	650.299	656.189	683.640	698.624
30	440.352	433.060	457.670	486.375	488.520	513.932	520.851
35	297.143	293.697	318.846	342.544	342.874	368.779	376.627
40	175.886	173.525	192.185	212.064	213.851	233.601	241.267
45	95.148	92.233	100.527	112.673	118.676	129.659	130.319

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES****CANDELA TABULATION - (Cont.)**

50	51.814	51.125	55.866	59.570	62.011	68.022	66.924
55	32.826	33.722	36.182	35.947	34.533	38.003	38.477
60	25.848	26.258	27.038	26.225	25.650	26.058	27.459
65	22.620	23.722	23.503	21.637	21.467	21.138	20.869
70	19.914	21.335	20.954	17.468	17.723	18.231	18.553
75	17.519	17.699	19.409	12.671	14.280	14.990	14.298
80	14.513	15.161	15.777	10.400	10.020	9.371	9.928
85	9.548	10.633	10.119	3.854	4.544	4.573	4.957
90	3.985	5.023	7.409	0.417	0.922	0.646	1.044
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_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	456.61	N.A.	39.30
0-30	762.15	N.A.	65.70
0-40	978.58	N.A.	84.30
0-60	1111.56	N.A.	95.80
0-80	1151.29	N.A.	99.20
0-90	1159.62	N.A.	99.90
10-90	1016.79	N.A.	87.60
20-40	521.98	N.A.	45.00
20-50	618.53	N.A.	53.30
40-70	155.61	N.A.	13.40
60-80	39.73	N.A.	3.40
70-80	17.10	N.A.	1.50
80-90	8.34	N.A.	0.70
90-110	0.83	N.A.	0.10
90-120	0.83	N.A.	0.10
90-130	0.83	N.A.	0.10
90-150	0.83	N.A.	0.10
90-180	0.83	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1160.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.84
10-20	313.77
20-30	305.55
30-40	216.43
40-50	96.56
50-60	36.42
60-70	22.63
70-80	17.10
80-90	8.34
90-100	0.83
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES

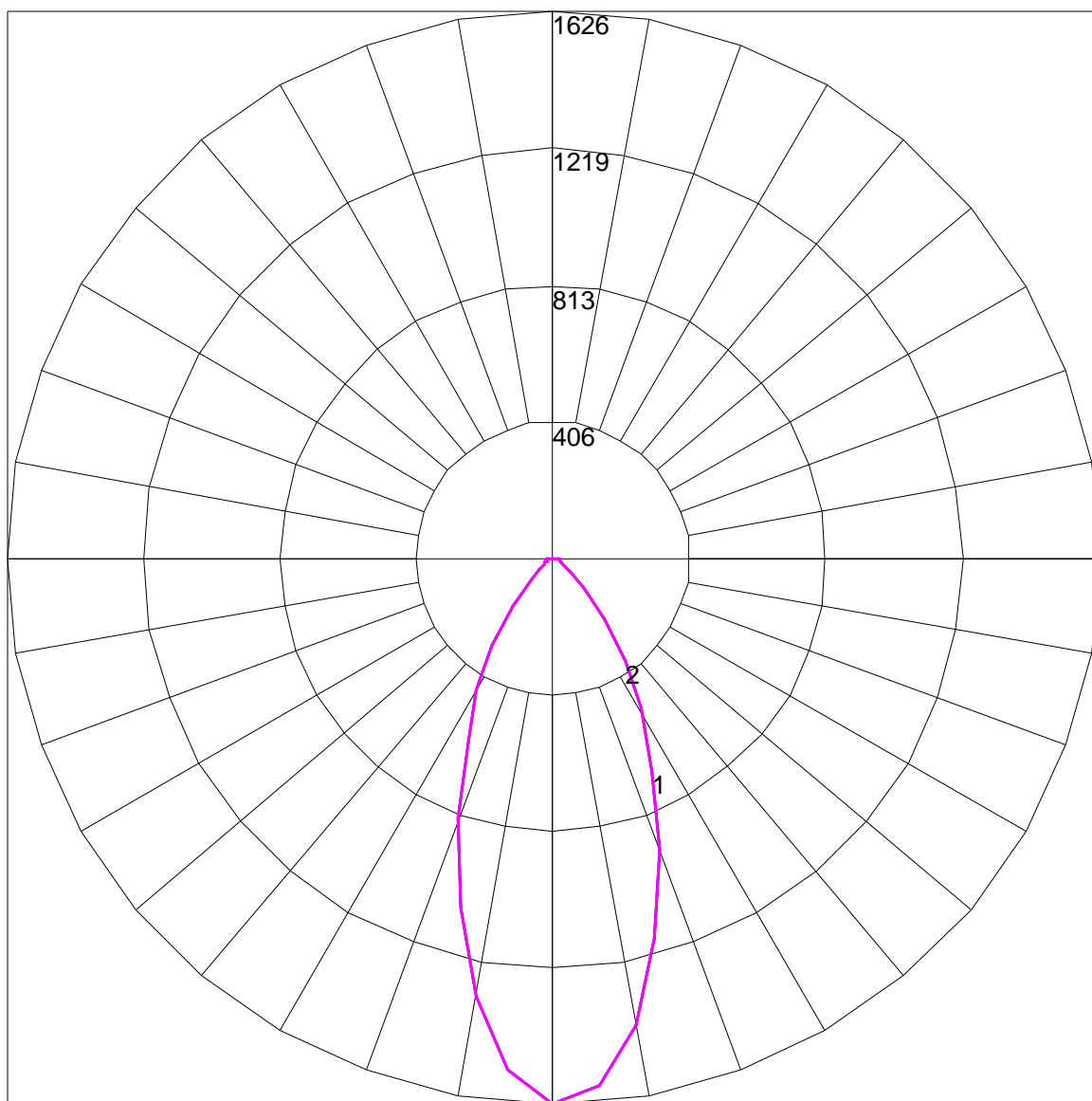
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	89	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-13LXXK-WDEX-TCY-SOXXMW.IES

POLAR GRAPH



Maximum Candela = 1625.659 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)