

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621718

Luminaire Tested: VLT-FA-125U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621718
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-125U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

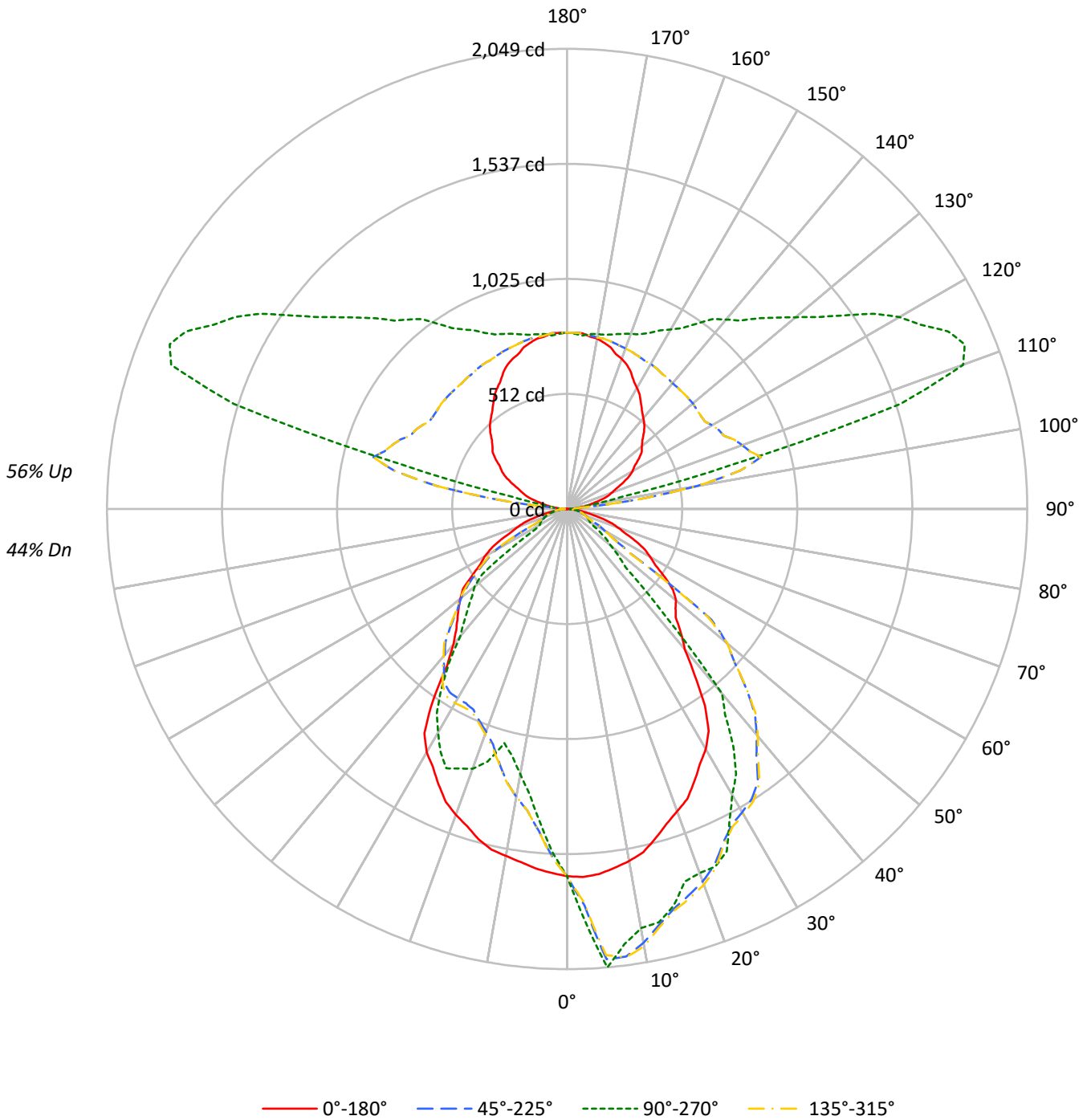
Lumens per Lamp: N/A
Luminaire Lumens: 7590.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P621718
CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	45	39
2	89	82	77	72	82	76	71	67	63	60	57	52	50	48	42	40	39	34
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	38	35	34	29
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30	26
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23
6	64	52	45	39	59	49	42	37	41	36	32	35	31	28	28	25	23	20
7	59	47	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17	15
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11733	11733	11733	11733
5°	11754	14760	11574	10064
10°	11598	13805	11429	8738
15°	11282	13592	11319	8020
20°	10936	13171	11063	9399
25°	10601	13315	10720	10088
30°	10226	12183	10364	9523
35°	9369	11292	9136	8539
40°	7635	10049	7369	6949
45°	6937	3731	7005	6330
50°	7056	2841	6926	6016
55°	6658	2206	6429	3599
60°	6135	1695	6087	2005
65°	5649	1751	5535	2117
70°	5025	1851	4886	2199
75°	4289	1938	4103	2260
80°	3232	1992	3025	2339
85°	2190	1778	1918	2190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12846 cd/sqm



TEST NUMBER: P621718

CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.1
10°-20°	432.1	5.7
20°-30°	646.5	8.5
30°-40°	735.2	9.7
40°-50°	628.8	8.3
50°-60°	424.0	5.6
60°-70°	218.9	2.9
70°-80°	98.8	1.3
80°-90°	31.2	0.4
90°-100°	96.5	1.3
100°-110°	687.8	9.1
110°-120°	933.8	12.3
120°-130°	760.0	10.0
130°-140°	611.2	8.1
140°-150°	481.9	6.3
150°-160°	352.4	4.6
160°-170°	218.9	2.9
170°-180°	74.6	1.0
0°-30°	1236.3	16.3
0°-40°	1971.5	26.0
0°-60°	3024.3	39.8
0°-90°	3373.2	44.4
90°-120°	1718.1	22.6
90°-150°	3571.3	47.1
90°-180°	4217.0	55.6
0°-180°	7590.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1635	1635	1635	1635	1635	
5°	1632	2049	1607	1397	1632	154
15°	1519	1830	1524	1080	1519	427
25°	1339	1682	1354	1274	1339	616
35°	1070	1289	1043	975	1070	654
45°	684	368	690	624	684	542
55°	532	176	514	288	532	474
65°	333	103	326	125	333	329
75°	155	70	148	82	155	165
85°	27	22	23	27	27	34
90°	0	15	0	15	0	3
95°	40	54	40	54	40	44
105°	153	755	153	755	153	161
115°	272	1871	272	1871	272	270
125°	390	1501	390	1501	390	347
135°	484	1200	484	1200	484	372
145°	573	1007	573	1007	573	360
155°	672	864	672	864	672	308
165°	746	805	746	805	746	209
175°	785	775	785	775	785	74
180°	785	785	785	785	785	



TEST NUMBER: P621718

CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1640.3	1696.3	1766.7	1815.1	1835.9	1815.1	1754.7	1695.8	1621.7	1599.6	1547.2
5°	1631.7	1804.1	2012.6	2037.8	2049.1	2037.8	1994.3	1793.7	1606.7	1527.0	1440.4
7.5°	1611.7	1913.2	2010.2	1954.0	1954.3	1964.7	2013.2	1903.9	1585.8	1460.5	1354.2
10°	1591.7	1973.9	1961.0	1879.8	1894.5	1888.0	1976.0	1962.0	1568.5	1423.7	1302.3
12.5°	1565.1	1992.9	1895.8	1869.2	1885.1	1876.0	1905.4	1982.5	1553.8	1397.4	1242.5
15°	1518.6	1965.8	1841.2	1829.6	1829.6	1837.7	1849.6	1974.0	1523.6	1349.5	1169.3
17.5°	1470.7	1911.7	1803.3	1745.6	1739.4	1750.2	1817.0	1925.6	1480.6	1296.5	1098.4
20°	1432.1	1874.4	1764.7	1697.2	1724.8	1700.4	1779.7	1884.6	1448.7	1263.3	1054.5
22.5°	1397.5	1828.1	1715.5	1686.7	1723.5	1687.4	1729.1	1838.2	1411.4	1226.0	1021.2
25°	1338.9	1750.4	1641.6	1668.6	1681.6	1668.6	1648.3	1757.2	1353.9	1178.3	986.3
27.5°	1280.7	1668.4	1586.4	1604.5	1564.8	1595.4	1595.4	1668.7	1294.7	1122.6	975.7
30°	1234.1	1611.4	1558.5	1532.1	1470.3	1519.1	1570.1	1611.8	1250.8	1086.5	973.0
32.5°	1172.9	1559.3	1530.5	1439.5	1399.8	1433.0	1543.5	1558.3	1182.9	1053.8	970.3
35°	1069.5	1485.8	1480.3	1329.7	1289.0	1319.9	1491.9	1482.0	1042.9	1002.2	949.7
37.5°	930.8	1420.3	1384.2	1218.7	1154.0	1210.6	1395.1	1413.2	877.2	954.9	901.5
40°	815.0	1376.1	1312.3	1136.2	1072.8	1128.1	1320.6	1372.2	786.7	921.7	848.3
42.5°	749.8	1336.9	1236.5	1048.9	656.3	1035.6	1244.8	1331.9	730.8	878.8	801.7
45°	683.6	1265.8	1126.0	580.6	367.6	553.0	1127.7	1248.1	690.3	813.9	730.2
47.5°	654.7	1178.3	1010.6	349.7	310.4	339.6	1009.6	1159.1	655.0	748.7	662.0
50°	632.0	1123.2	928.1	308.1	254.5	296.8	929.8	1105.0	620.4	705.0	615.4
52.5°	594.8	1057.3	809.7	255.3	219.9	249.2	790.1	1036.6	584.5	657.3	556.9
55°	532.2	930.7	337.6	200.7	176.3	192.6	321.0	899.4	513.9	582.3	489.0
57.5°	466.0	792.3	236.8	156.2	136.7	154.6	235.2	760.5	457.4	493.2	426.5
60°	427.5	699.1	192.9	131.1	118.1	129.5	191.3	671.3	424.1	433.9	369.2
62.5°	388.9	604.5	159.7	115.3	111.4	113.7	159.3	574.1	382.9	383.5	260.1
65°	332.7	457.9	118.1	104.7	103.1	103.1	114.8	441.5	326.0	316.2	149.7
67.5°	275.4	328.8	94.8	96.4	94.8	94.8	93.1	319.5	268.8	252.2	113.1
70°	239.5	252.5	88.2	89.8	88.2	88.2	86.5	245.9	232.9	195.5	106.4
72.5°	204.9	172.4	81.5	81.8	81.5	81.5	79.8	161.8	198.3	137.4	97.1
75°	154.7	86.4	69.9	69.9	69.9	69.9	68.2	83.0	148.0	89.5	83.2
77.5°	107.4	57.0	57.9	57.5	57.5	56.2	56.2	56.6	101.1	61.8	67.2
80°	78.2	47.3	49.9	48.2	48.2	48.2	48.2	45.5	73.2	52.0	56.6
82.5°	55.6	37.7	40.6	38.9	38.9	38.9	38.9	37.2	50.6	42.4	45.9
85°	26.6	25.0	26.6	23.2	21.6	23.2	24.9	24.9	23.3	28.2	29.9
87.5°	8.0	12.9	12.6	10.9	10.9	10.9	11.3	11.5	6.7	14.1	14.0
90°	0.0	4.8	9.9	14.8	14.8	14.8	9.9	4.8	0.0	4.8	9.9
92.5°	11.8	16.7	21.7	30.7	34.6	30.7	21.7	16.7	11.8	16.7	21.7
95°	39.5	73.3	39.5	44.7	54.3	44.7	39.5	73.3	39.5	73.3	39.5
97.5°	70.1	140.6	290.3	85.6	74.1	85.6	290.3	140.6	70.1	140.6	290.3
100°	93.8	175.9	582.6	171.5	113.6	171.5	582.6	175.9	93.8	175.9	582.6
102.5°	117.5	203.4	788.0	452.6	247.9	452.6	788.0	203.4	117.5	203.4	788.0
105°	153.1	235.1	893.7	1141.7	755.4	1141.7	893.7	235.1	153.1	235.1	893.7
107.5°	188.6	250.4	853.2	1661.5	1556.3	1661.5	853.2	250.4	188.6	250.4	853.2
110°	212.3	270.2	829.5	1745.9	1876.2	1745.9	829.5	270.2	212.3	270.2	829.5



TEST NUMBER: P621718

CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	236.0	293.9	805.8	1696.6	1915.7	1696.6	805.8	293.9	236.0	293.9	805.8
115°	271.6	329.5	770.2	1600.9	1871.3	1600.9	770.2	329.5	271.6	329.5	770.2
117.5°	308.1	365.1	761.4	1497.4	1775.5	1497.4	761.4	365.1	308.1	365.1	761.4
120°	335.7	388.9	745.6	1418.7	1708.4	1418.7	745.6	388.9	335.7	388.9	745.6
122.5°	355.5	412.5	725.8	1351.0	1617.5	1351.0	725.8	412.5	355.5	412.5	725.8
125°	390.1	443.2	725.8	1269.3	1501.0	1269.3	725.8	443.2	390.1	443.2	725.8
127.5°	418.7	472.8	726.8	1174.4	1403.2	1174.4	726.8	472.8	418.7	472.8	726.8
130°	434.5	492.4	730.7	1110.9	1328.2	1110.9	730.7	492.4	434.5	492.4	730.7
132.5°	454.2	512.2	730.7	1082.4	1261.0	1082.4	730.7	512.2	454.2	512.2	730.7
135°	483.9	537.0	730.7	1045.3	1199.8	1045.3	730.7	537.0	483.9	537.0	730.7
137.5°	508.6	565.5	730.7	1004.3	1136.6	1004.3	730.7	565.5	508.6	565.5	730.7
140°	528.3	581.4	730.7	980.4	1101.1	980.4	730.7	581.4	528.3	581.4	730.7
142.5°	548.1	597.3	734.7	952.5	1065.5	952.5	734.7	597.3	548.1	597.3	734.7
145°	572.7	621.0	735.7	910.7	1007.2	910.7	735.7	621.0	572.7	621.0	735.7
147.5°	602.4	644.9	741.6	880.6	954.9	880.6	741.6	644.9	602.4	644.9	741.6
150°	622.1	660.7	745.6	860.5	923.3	860.5	745.6	660.7	622.1	660.7	745.6
152.5°	641.9	676.6	745.6	844.5	895.7	844.5	745.6	676.6	641.9	676.6	745.6
155°	671.5	695.6	750.5	825.4	864.1	825.4	750.5	695.6	671.5	695.6	750.5
157.5°	695.2	718.4	756.4	813.3	841.3	813.3	756.4	718.4	695.2	718.4	756.4
160°	711.0	730.3	760.4	805.4	829.5	805.4	760.4	730.3	711.0	730.3	760.4
162.5°	722.8	742.2	764.3	801.2	817.6	801.2	764.3	742.2	722.8	742.2	764.3
165°	745.6	755.2	770.2	790.3	804.8	790.3	770.2	755.2	745.6	755.2	770.2
167.5°	758.4	767.1	775.2	785.3	793.9	785.3	775.2	767.1	758.4	767.1	775.2
170°	770.2	775.1	775.2	785.2	790.0	785.2	775.2	775.1	770.2	775.1	775.2
172.5°	774.2	782.9	779.1	781.2	786.0	781.2	779.1	782.9	774.2	782.9	779.1
175°	785.1	789.9	785.1	780.0	775.2	780.0	785.1	789.9	785.1	789.9	785.1
177.5°	785.1	788.9	785.1	785.0	781.1	785.0	785.1	788.9	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1



TEST NUMBER: P621718

CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1528.5	1527.2	1529.8	1552.5	1598.7	1640.3
5°	1392.3	1397.1	1402.0	1440.4	1521.1	1631.7
7.5°	1287.5	1280.4	1291.4	1353.9	1453.0	1611.7
10°	1215.5	1199.2	1215.5	1300.7	1416.1	1591.7
12.5°	1147.5	1127.4	1152.7	1246.1	1385.6	1565.1
15°	1059.9	1079.5	1068.1	1172.6	1339.7	1518.6
17.5°	1080.7	1178.9	1101.5	1108.7	1294.0	1470.7
20°	1130.0	1230.8	1162.5	1066.2	1264.6	1432.1
22.5°	1174.7	1250.8	1189.0	1030.2	1235.2	1397.5
25°	1209.0	1274.1	1205.8	998.0	1192.6	1338.9
27.5°	1210.7	1219.8	1211.4	995.3	1139.9	1280.7
30°	1188.3	1149.3	1185.1	998.0	1102.4	1234.1
32.5°	1124.4	1080.1	1110.7	992.6	1064.6	1172.9
35°	1033.2	974.7	1017.0	964.7	1006.1	1069.5
37.5°	937.1	862.9	921.4	909.5	956.1	930.8
40°	871.9	741.8	858.9	854.9	928.8	815.0
42.5°	788.5	677.9	776.8	811.0	898.8	749.8
45°	636.7	623.7	630.2	736.8	834.8	683.6
47.5°	582.3	573.5	579.0	669.3	762.6	654.7
50°	550.3	538.9	547.0	625.4	716.6	632.0
52.5°	505.9	475.0	502.7	565.5	668.9	594.8
55°	380.4	287.7	378.8	497.3	597.3	532.2
57.5°	223.2	166.3	218.4	432.8	506.1	466.0
60°	151.1	139.7	152.7	380.9	445.3	427.5
62.5°	138.0	134.4	138.3	265.1	391.1	388.9
65°	126.4	124.7	126.4	153.0	322.9	332.7
67.5°	114.4	112.8	115.7	117.4	254.9	275.4
70°	106.4	104.8	106.4	108.1	195.6	239.5
72.5°	97.1	95.5	97.1	98.8	137.6	204.9
75°	83.1	81.5	83.1	84.8	91.3	154.7
77.5°	67.2	67.2	68.8	68.9	63.9	107.4
80°	56.6	56.6	58.2	58.2	55.4	78.2
82.5°	45.9	44.6	47.5	48.9	45.8	55.6
85°	28.2	26.6	29.9	31.6	29.9	26.6
87.5°	13.6	12.3	14.9	16.6	15.5	8.0
90°	14.8	14.8	14.8	9.9	4.8	0.0
92.5°	30.7	34.6	30.7	21.7	16.7	11.8
95°	44.7	54.3	44.7	39.5	73.3	39.5
97.5°	85.6	74.1	85.6	290.3	140.6	70.1
100°	171.5	113.6	171.5	582.6	175.9	93.8
102.5°	452.6	247.9	452.6	788.0	203.4	117.5
105°	1141.7	755.4	1141.7	893.7	235.1	153.1
107.5°	1661.5	1556.3	1661.5	853.2	250.4	188.6
110°	1745.9	1876.2	1745.9	829.5	270.2	212.3



TEST NUMBER: P621718

CATALOG NUMBER: VLT-FA-125U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1696.6	1915.7	1696.6	805.8	293.9	236.0
115°	1600.9	1871.3	1600.9	770.2	329.5	271.6
117.5°	1497.4	1775.5	1497.4	761.4	365.1	308.1
120°	1418.7	1708.4	1418.7	745.6	388.9	335.7
122.5°	1351.0	1617.5	1351.0	725.8	412.5	355.5
125°	1269.3	1501.0	1269.3	725.8	443.2	390.1
127.5°	1174.4	1403.2	1174.4	726.8	472.8	418.7
130°	1110.9	1328.2	1110.9	730.7	492.4	434.5
132.5°	1082.4	1261.0	1082.4	730.7	512.2	454.2
135°	1045.3	1199.8	1045.3	730.7	537.0	483.9
137.5°	1004.3	1136.6	1004.3	730.7	565.5	508.6
140°	980.4	1101.1	980.4	730.7	581.4	528.3
142.5°	952.5	1065.5	952.5	734.7	597.3	548.1
145°	910.7	1007.2	910.7	735.7	621.0	572.7
147.5°	880.6	954.9	880.6	741.6	644.9	602.4
150°	860.5	923.3	860.5	745.6	660.7	622.1
152.5°	844.5	895.7	844.5	745.6	676.6	641.9
155°	825.4	864.1	825.4	750.5	695.6	671.5
157.5°	813.3	841.3	813.3	756.4	718.4	695.2
160°	805.4	829.5	805.4	760.4	730.3	711.0
162.5°	801.2	817.6	801.2	764.3	742.2	722.8
165°	790.3	804.8	790.3	770.2	755.2	745.6
167.5°	785.3	793.9	785.3	775.2	767.1	758.4
170°	785.2	790.0	785.2	775.2	775.1	770.2
172.5°	781.2	786.0	781.2	779.1	782.9	774.2
175°	780.0	775.2	780.0	785.1	789.9	785.1
177.5°	785.0	781.1	785.0	785.1	788.9	785.1
180°	785.1	785.1	785.1	785.1	785.1	785.1

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