

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P621720

Luminaire Tested: VLT-FA-125U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621720  
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-940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

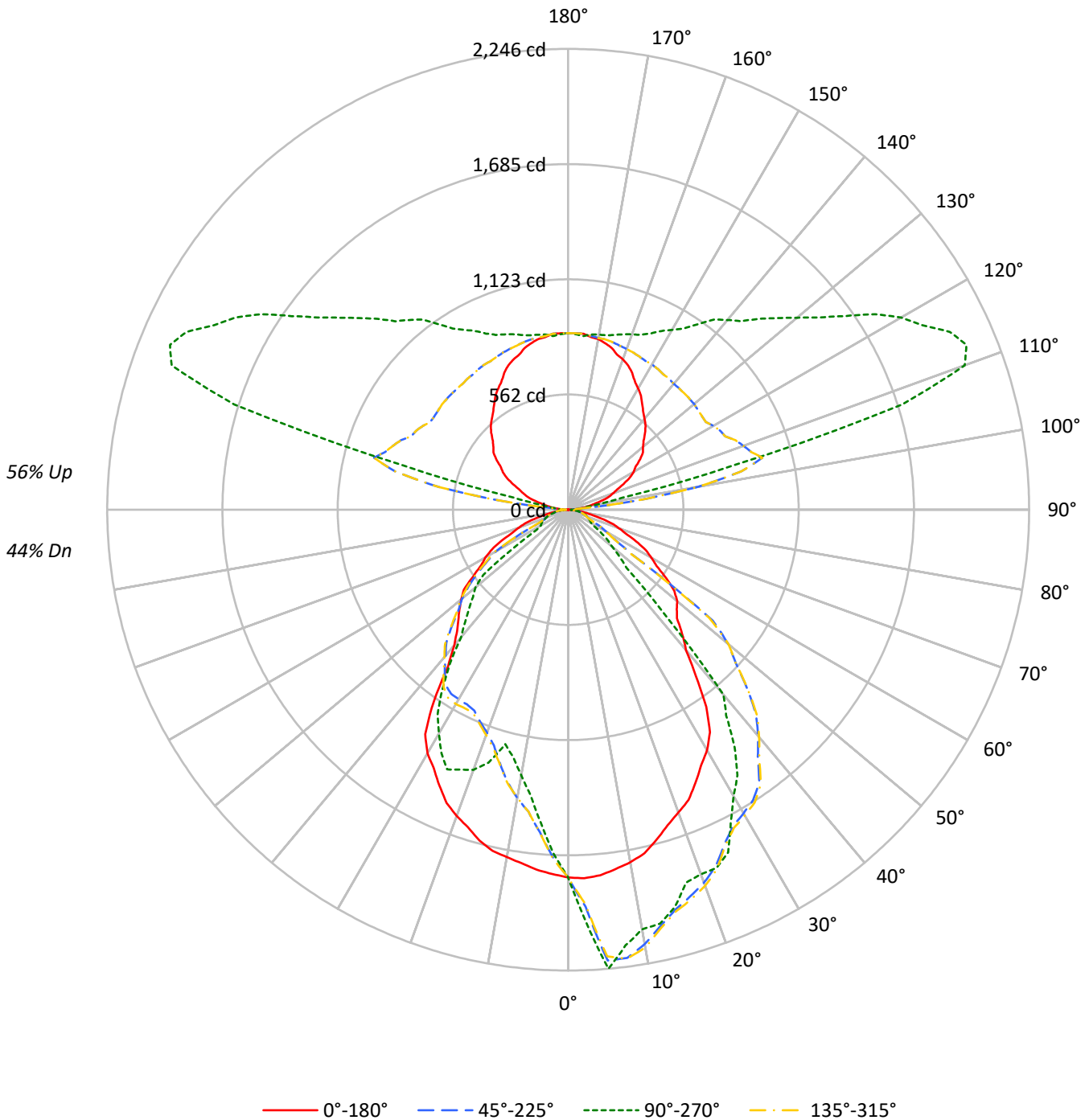
Lumens per Lamp: N/A  
Luminaire Lumens: 8319.3 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 76.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P621720  
CATALOG NUMBER: VLT-FA-125U-125D-940-UNV-STD-W-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	12859	12859	12859	12859
5°	12882	16178	12685	11030
10°	12712	15130	12526	9578
15°	12365	14898	12406	8789
20°	11986	14437	12125	10302
25°	11619	14593	11749	11056
30°	11209	13353	11359	10438
35°	10269	12376	10013	9359
40°	8368	11014	8078	7617
45°	7604	4089	7677	6937
50°	7733	3114	7591	6594
55°	7299	2417	7047	3946
60°	6724	1857	6672	2197
65°	6191	1919	6067	2321
70°	5508	2027	5354	2409
75°	4700	2124	4497	2476
80°	3542	2186	3314	2562
85°	2404	1951	2100	2404

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14080 cd/sqm



TEST NUMBER: P621720

CATALOG NUMBER: VLT-FA-125U-125D-940-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	2.1
10°-20°	473.5	5.7
20°-30°	708.6	8.5
30°-40°	805.8	9.7
40°-50°	689.2	8.3
50°-60°	464.8	5.6
60°-70°	239.9	2.9
70°-80°	108.3	1.3
80°-90°	34.2	0.4
90°-100°	105.8	1.3
100°-110°	753.9	9.1
110°-120°	1023.4	12.3
120°-130°	833.0	10.0
130°-140°	670.0	8.1
140°-150°	528.2	6.3
150°-160°	386.2	4.6
160°-170°	239.9	2.9
170°-180°	81.8	1.0
0°-30°	1355.0	16.3
0°-40°	2160.8	26.0
0°-60°	3314.8	39.8
0°-90°	3697.1	44.4
90°-120°	1883.1	22.6
90°-150°	3914.2	47.1
90°-180°	4622.0	55.6
0°-180°	8319.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1792	1792	1792	1792	1792	
5°	1788	2246	1761	1531	1788	169
15°	1664	2005	1670	1183	1664	468
25°	1468	1843	1484	1396	1468	675
35°	1172	1413	1143	1068	1172	717
45°	749	403	756	684	749	594
55°	583	193	563	315	583	520
65°	365	113	357	137	365	360
75°	170	77	162	89	170	181
85°	29	24	26	29	29	37
90°	0	16	0	16	0	3
95°	43	60	43	60	43	48
105°	168	828	168	828	168	177
115°	298	2051	298	2051	298	295
125°	428	1645	428	1645	428	380
135°	530	1315	530	1315	530	408
145°	628	1104	628	1104	628	394
155°	736	947	736	947	736	338
165°	817	882	817	882	817	229
175°	860	850	860	850	860	81
180°	860	860	860	860	860	



TEST NUMBER: P621720

CATALOG NUMBER: VLT-FA-125U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1797.8	1859.2	1936.4	1989.4	2012.2	1989.4	1923.3	1858.7	1777.4	1753.2	1695.8
5°	1788.4	1977.3	2205.8	2233.5	2245.9	2233.5	2185.8	1966.0	1761.0	1673.7	1578.7
7.5°	1766.5	2097.0	2203.3	2141.7	2142.0	2153.4	2206.6	2086.7	1738.1	1600.8	1484.3
10°	1744.6	2163.5	2149.3	2060.4	2076.4	2069.3	2165.7	2150.5	1719.1	1560.4	1427.4
12.5°	1715.4	2184.2	2077.9	2048.7	2066.2	2056.2	2088.4	2172.9	1703.0	1531.6	1361.8
15°	1664.4	2154.6	2018.1	2005.3	2005.3	2014.2	2027.2	2163.6	1669.9	1479.1	1281.6
17.5°	1611.9	2095.3	1976.5	1913.3	1906.5	1918.3	1991.4	2110.5	1622.8	1421.1	1203.9
20°	1569.6	2054.4	1934.2	1860.2	1890.5	1863.7	1950.6	2065.5	1587.8	1384.6	1155.8
22.5°	1531.7	2003.7	1880.2	1848.7	1889.0	1849.4	1895.2	2014.7	1547.0	1343.8	1119.3
25°	1467.5	1918.5	1799.3	1828.8	1843.1	1828.8	1806.6	1926.0	1483.9	1291.4	1081.0
27.5°	1403.7	1828.7	1738.8	1758.6	1715.1	1748.6	1748.6	1829.0	1419.0	1230.4	1069.4
30°	1352.7	1766.2	1708.2	1679.3	1611.5	1665.0	1720.9	1766.6	1370.9	1190.9	1066.5
32.5°	1285.6	1709.1	1677.5	1577.7	1534.2	1570.6	1691.7	1707.9	1296.5	1155.0	1063.5
35°	1172.2	1628.5	1622.5	1457.4	1412.8	1446.7	1635.2	1624.3	1143.0	1098.5	1040.9
37.5°	1020.2	1556.7	1517.1	1335.7	1264.8	1326.8	1529.1	1549.0	961.5	1046.7	988.1
40°	893.3	1508.2	1438.3	1245.4	1175.8	1236.4	1447.5	1504.0	862.3	1010.2	929.7
42.5°	821.8	1465.3	1355.2	1149.7	719.4	1135.0	1364.3	1459.8	801.0	963.2	878.7
45°	749.3	1387.4	1234.2	636.4	402.9	606.1	1236.0	1367.9	756.5	892.0	800.3
47.5°	717.5	1291.5	1107.7	383.3	340.2	372.3	1106.6	1270.5	717.9	820.6	725.6
50°	692.7	1231.1	1017.2	337.7	278.9	325.3	1019.1	1211.2	680.0	772.7	674.5
52.5°	651.9	1158.8	887.4	279.9	241.0	273.1	865.9	1136.1	640.6	720.5	610.3
55°	583.4	1020.1	370.1	220.0	193.2	211.1	351.8	985.8	563.3	638.2	536.0
57.5°	510.8	868.4	259.6	171.2	149.9	169.5	257.8	833.6	501.3	540.5	467.4
60°	468.5	766.2	211.5	143.7	129.4	141.9	209.6	735.8	464.9	475.6	404.7
62.5°	426.2	662.6	175.0	126.4	122.1	124.6	174.6	629.3	419.7	420.4	285.1
65°	364.6	501.9	129.4	114.8	113.0	113.0	125.8	483.9	357.3	346.6	164.1
67.5°	301.9	360.4	103.9	105.7	103.9	103.9	102.1	350.2	294.6	276.4	124.0
70°	262.5	276.8	96.6	98.4	96.6	96.6	94.8	269.5	255.2	214.2	116.7
72.5°	224.6	188.9	89.3	89.7	89.3	89.3	87.5	177.4	217.3	150.6	106.5
75°	169.5	94.7	76.6	76.6	76.6	76.6	74.7	90.9	162.2	98.1	91.2
77.5°	117.8	62.5	63.4	63.1	63.1	61.6	61.6	62.0	110.8	67.7	73.6
80°	85.7	51.8	54.7	52.9	52.9	52.9	52.9	49.9	80.2	57.0	62.0
82.5°	60.9	41.3	44.5	42.7	42.7	42.7	42.7	40.8	55.4	46.5	50.3
85°	29.2	27.4	29.2	25.5	23.7	25.5	27.3	27.3	25.5	30.9	32.8
87.5°	8.8	14.1	13.8	12.0	12.0	12.0	12.4	12.6	7.3	15.5	15.3
90°	0.0	5.3	10.8	16.2	16.2	16.2	10.8	5.3	0.0	5.3	10.8
92.5°	13.0	18.3	23.8	33.6	37.9	33.6	23.8	18.3	13.0	18.3	23.8
95°	43.3	80.3	43.3	48.9	59.5	48.9	43.3	80.3	43.3	80.3	43.3
97.5°	76.8	154.1	318.2	93.9	81.2	93.9	318.2	154.1	76.8	154.1	318.2
100°	102.8	192.8	638.6	188.0	124.5	188.0	638.6	192.8	102.8	192.8	638.6
102.5°	128.8	223.0	863.7	496.0	271.7	496.0	863.7	223.0	128.8	223.0	863.7
105°	167.8	257.7	979.5	1251.3	828.0	1251.3	979.5	257.7	167.8	257.7	979.5
107.5°	206.7	274.5	935.1	1821.1	1705.8	1821.1	935.1	274.5	206.7	274.5	935.1
110°	232.7	296.2	909.2	1913.6	2056.4	1913.6	909.2	296.2	232.7	296.2	909.2



TEST NUMBER: P621720

CATALOG NUMBER: VLT-FA-125U-125D-940-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°	258.7	322.2	883.2	1859.5	2099.7	1859.5	883.2	322.2	258.7	322.2	883.2
115°	297.6	361.1	844.2	1754.7	2051.0	1754.7	844.2	361.1	297.6	361.1	844.2
117.5°	337.7	400.1	834.5	1641.2	1946.0	1641.2	834.5	400.1	337.7	400.1	834.5
120°	368.0	426.2	817.2	1554.9	1872.4	1554.9	817.2	426.2	368.0	426.2	817.2
122.5°	389.6	452.1	795.5	1480.8	1772.9	1480.8	795.5	452.1	389.6	452.1	795.5
125°	427.5	485.7	795.5	1391.2	1645.1	1391.2	795.5	485.7	427.5	485.7	795.5
127.5°	458.9	518.2	796.6	1287.2	1538.0	1287.2	796.6	518.2	458.9	518.2	796.6
130°	476.2	539.7	800.9	1217.6	1455.7	1217.6	800.9	539.7	476.2	539.7	800.9
132.5°	497.9	561.4	800.9	1186.4	1382.1	1186.4	800.9	561.4	497.9	561.4	800.9
135°	530.3	588.5	800.9	1145.7	1315.0	1145.7	800.9	588.5	530.3	588.5	800.9
137.5°	557.4	619.8	800.9	1100.8	1245.8	1100.8	800.9	619.8	557.4	619.8	800.9
140°	579.0	637.3	800.9	1074.5	1206.8	1074.5	800.9	637.3	579.0	637.3	800.9
142.5°	600.7	654.7	805.3	1044.0	1167.8	1044.0	805.3	654.7	600.7	654.7	805.3
145°	627.8	680.7	806.3	998.1	1104.0	998.1	806.3	680.7	627.8	680.7	806.3
147.5°	660.2	706.8	812.8	965.1	1046.6	965.1	812.8	706.8	660.2	706.8	812.8
150°	681.9	724.2	817.2	943.2	1012.0	943.2	817.2	724.2	681.9	724.2	817.2
152.5°	703.5	741.6	817.2	925.6	981.7	925.6	817.2	741.6	703.5	741.6	817.2
155°	736.0	762.4	822.6	904.7	947.0	904.7	822.6	762.4	736.0	762.4	822.6
157.5°	762.0	787.4	829.1	891.5	922.1	891.5	829.1	787.4	762.0	787.4	829.1
160°	779.3	800.4	833.4	882.7	909.2	882.7	833.4	800.4	779.3	800.4	833.4
162.5°	792.3	813.4	837.7	878.2	896.2	878.2	837.7	813.4	792.3	813.4	837.7
165°	817.2	827.7	844.2	866.2	882.1	866.2	844.2	827.7	817.2	827.7	844.2
167.5°	831.2	840.8	849.6	860.7	870.2	860.7	849.6	840.8	831.2	840.8	849.6
170°	844.2	849.5	849.6	860.6	865.9	860.6	849.6	849.5	844.2	849.5	849.6
172.5°	848.5	858.1	854.0	856.2	861.5	856.2	854.0	858.1	848.5	858.1	854.0
175°	860.5	865.7	860.5	854.9	849.6	854.9	860.5	865.7	860.5	865.7	860.5
177.5°	860.5	864.7	860.5	860.4	856.1	860.4	860.5	864.7	860.5	864.7	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



TEST NUMBER: P621720

CATALOG NUMBER: VLT-FA-125U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1675.3	1673.9	1676.7	1701.6	1752.2	1797.8
5°	1526.0	1531.3	1536.7	1578.7	1667.2	1788.4
7.5°	1411.2	1403.3	1415.5	1483.9	1592.5	1766.5
10°	1332.2	1314.4	1332.2	1425.6	1552.1	1744.6
12.5°	1257.7	1235.6	1263.4	1365.8	1518.7	1715.4
15°	1161.7	1183.1	1170.7	1285.2	1468.3	1664.4
17.5°	1184.5	1292.1	1207.3	1215.2	1418.3	1611.9
20°	1238.5	1349.0	1274.2	1168.5	1386.0	1569.6
22.5°	1287.5	1370.9	1303.2	1129.2	1353.8	1531.7
25°	1325.1	1396.4	1321.6	1093.8	1307.1	1467.5
27.5°	1327.0	1337.0	1327.7	1090.9	1249.3	1403.7
30°	1302.5	1259.7	1298.9	1093.8	1208.3	1352.7
32.5°	1232.3	1183.9	1217.4	1088.0	1166.9	1285.6
35°	1132.4	1068.3	1114.6	1057.3	1102.7	1172.2
37.5°	1027.1	945.8	1009.9	996.8	1048.0	1020.2
40°	955.7	813.1	941.4	937.0	1018.0	893.3
42.5°	864.3	743.1	851.4	888.9	985.1	821.8
45°	697.9	683.6	690.8	807.6	915.0	749.3
47.5°	638.2	628.6	634.6	733.6	835.9	717.5
50°	603.1	590.7	599.6	685.4	785.4	692.7
52.5°	554.5	520.6	551.0	619.8	733.2	651.9
55°	417.0	315.4	415.2	545.1	654.7	583.4
57.5°	244.7	182.3	239.3	474.3	554.7	510.8
60°	165.6	153.1	167.4	417.5	488.1	468.5
62.5°	151.2	147.3	151.6	290.6	428.7	426.2
65°	138.5	136.7	138.5	167.7	353.9	364.6
67.5°	125.4	123.6	126.8	128.7	279.4	301.9
70°	116.6	114.8	116.6	118.5	214.4	262.5
72.5°	106.4	104.6	106.4	108.3	150.8	224.6
75°	91.1	89.3	91.1	93.0	100.0	169.5
77.5°	73.6	73.6	75.4	75.5	70.0	117.8
80°	62.0	62.0	63.8	63.8	60.7	85.7
82.5°	50.3	48.9	52.1	53.6	50.2	60.9
85°	31.0	29.2	32.7	34.6	32.7	29.2
87.5°	14.9	13.5	16.3	18.2	16.9	8.8
90°	16.2	16.2	16.2	10.8	5.3	0.0
92.5°	33.6	37.9	33.6	23.8	18.3	13.0
95°	48.9	59.5	48.9	43.3	80.3	43.3
97.5°	93.9	81.2	93.9	318.2	154.1	76.8
100°	188.0	124.5	188.0	638.6	192.8	102.8
102.5°	496.0	271.7	496.0	863.7	223.0	128.8
105°	1251.3	828.0	1251.3	979.5	257.7	167.8
107.5°	1821.1	1705.8	1821.1	935.1	274.5	206.7
110°	1913.6	2056.4	1913.6	909.2	296.2	232.7





TEST NUMBER: P621720

CATALOG NUMBER: VLT-FA-125U-125D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1859.5	2099.7	1859.5	883.2	322.2	258.7
115°	1754.7	2051.0	1754.7	844.2	361.1	297.6
117.5°	1641.2	1946.0	1641.2	834.5	400.1	337.7
120°	1554.9	1872.4	1554.9	817.2	426.2	368.0
122.5°	1480.8	1772.9	1480.8	795.5	452.1	389.6
125°	1391.2	1645.1	1391.2	795.5	485.7	427.5
127.5°	1287.2	1538.0	1287.2	796.6	518.2	458.9
130°	1217.6	1455.7	1217.6	800.9	539.7	476.2
132.5°	1186.4	1382.1	1186.4	800.9	561.4	497.9
135°	1145.7	1315.0	1145.7	800.9	588.5	530.3
137.5°	1100.8	1245.8	1100.8	800.9	619.8	557.4
140°	1074.5	1206.8	1074.5	800.9	637.3	579.0
142.5°	1044.0	1167.8	1044.0	805.3	654.7	600.7
145°	998.1	1104.0	998.1	806.3	680.7	627.8
147.5°	965.1	1046.6	965.1	812.8	706.8	660.2
150°	943.2	1012.0	943.2	817.2	724.2	681.9
152.5°	925.6	981.7	925.6	817.2	741.6	703.5
155°	904.7	947.0	904.7	822.6	762.4	736.0
157.5°	891.5	922.1	891.5	829.1	787.4	762.0
160°	882.7	909.2	882.7	833.4	800.4	779.3
162.5°	878.2	896.2	878.2	837.7	813.4	792.3
165°	866.2	882.1	866.2	844.2	827.7	817.2
167.5°	860.7	870.2	860.7	849.6	840.8	831.2
170°	860.6	865.9	860.6	849.6	849.5	844.2
172.5°	856.2	861.5	856.2	854.0	858.1	848.5
175°	854.9	849.6	854.9	860.5	865.7	860.5
177.5°	860.4	856.1	860.4	860.5	864.7	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5

(END OF REPORT)