

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: P621714

Luminaire Tested: VLT-FA-125U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621714
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-100D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

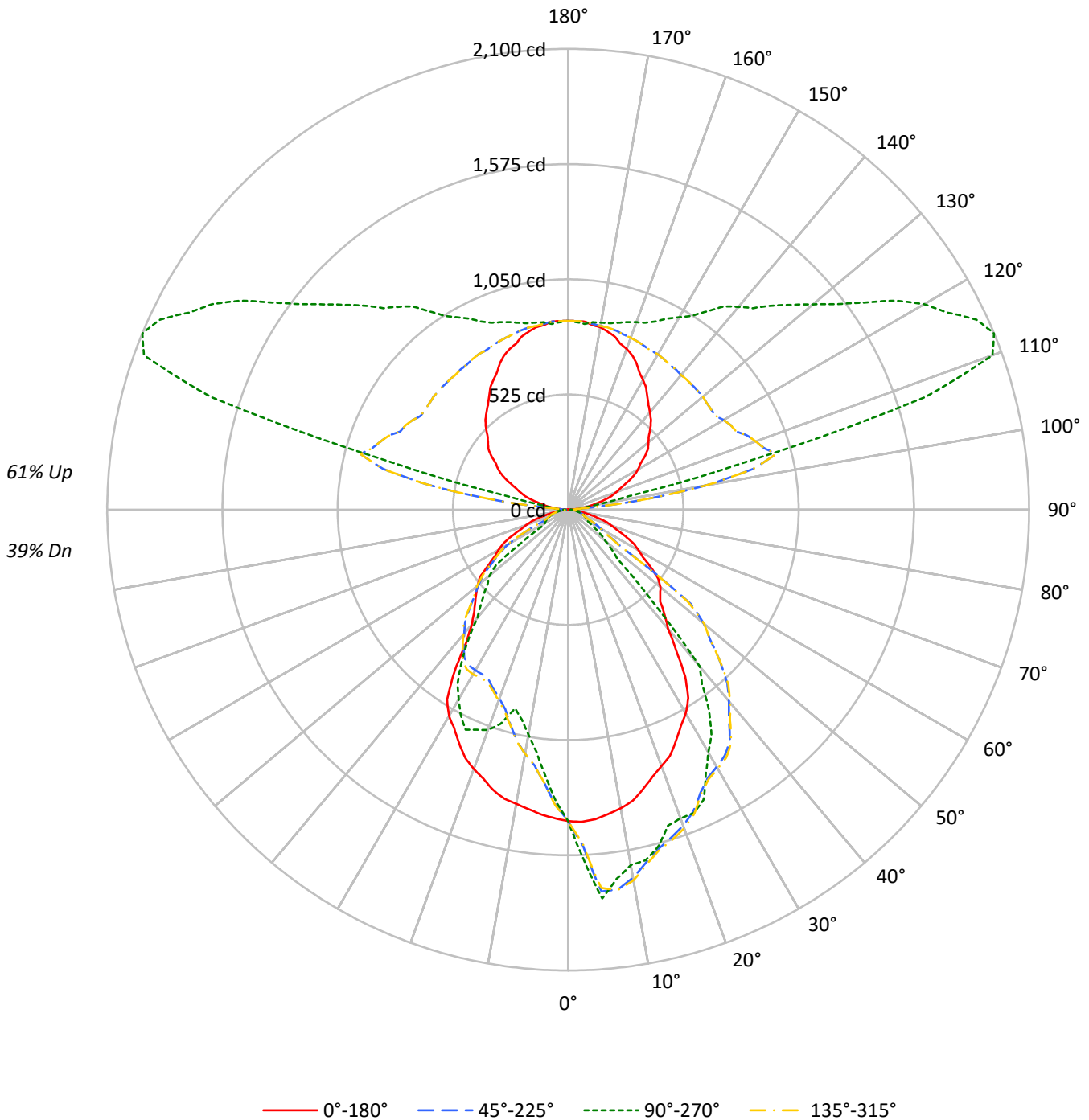
Lumens per Lamp: N/A
Luminaire Lumens: 7550.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 67.4
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: P621714
CATALOG NUMBER: VLT-FA-125U-100D-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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	65	54	53	52	41	41	40	34
2	88	81	75	71	80	74	69	65	61	57	54	49	46	44	37	36	35	30
3	81	72	65	59	73	66	60	55	54	50	46	43	41	38	34	32	30	26
4	74	64	56	51	67	58	52	47	48	44	40	39	36	33	30	28	26	23
5	68	57	49	44	62	52	46	41	44	39	35	35	32	29	28	25	23	20
6	63	51	44	38	57	47	40	36	39	34	31	32	28	26	25	23	21	18
7	58	46	39	34	53	43	36	31	36	31	27	29	26	23	23	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	20	21	19	17	14
9	50	39	31	27	46	36	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	27	22	28	23	20	23	19	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10182	10182	10182	10182
5°	10201	12810	10044	8734
10°	10066	11980	9919	7583
15°	9791	11796	9823	6960
20°	9491	11431	9601	8157
25°	9200	11555	9303	8755
30°	8875	10573	8995	8265
35°	8131	9800	7929	7410
40°	6626	8721	6396	6031
45°	6021	3237	6079	5493
50°	6123	2466	6011	5221
55°	5779	1914	5580	3124
60°	5325	1471	5283	1741
65°	4902	1520	4804	1839
70°	4362	1605	4240	1907
75°	3721	1680	3563	1960
80°	2802	1732	2624	2029
85°	1902	1548	1663	1902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11149 cd/sqm



TEST NUMBER: P621714

CATALOG NUMBER: VLT-FA-125U-100D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.8
10°-20°	375.0	5.0
20°-30°	561.1	7.4
30°-40°	638.1	8.5
40°-50°	545.7	7.2
50°-60°	368.0	4.9
60°-70°	189.9	2.5
70°-80°	85.8	1.1
80°-90°	27.5	0.4
90°-100°	105.8	1.4
100°-110°	753.9	10.0
110°-120°	1023.4	13.6
120°-130°	833.0	11.0
130°-140°	670.0	8.9
140°-150°	528.2	7.0
150°-160°	386.2	5.1
160°-170°	239.9	3.2
170°-180°	81.8	1.1
0°-30°	1072.9	14.2
0°-40°	1711.0	22.7
0°-60°	2624.7	34.8
0°-90°	2927.9	38.8
90°-120°	1883.1	24.9
90°-150°	3914.2	51.8
90°-180°	4622.0	61.2
0°-180°	7550.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1419	1419	1419	1419	1419	
5°	1416	1778	1394	1212	1416	134
15°	1318	1588	1322	937	1318	371
25°	1162	1459	1175	1106	1162	535
35°	928	1119	905	846	928	567
45°	593	319	599	541	593	471
55°	462	153	446	250	462	412
65°	289	90	283	108	289	285
75°	134	61	128	71	134	143
85°	23	19	20	23	23	30
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: P621714

CATALOG NUMBER: VLT-FA-125U-100D-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°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1423.6	1472.1	1533.3	1575.2	1593.3	1575.2	1522.9	1471.8	1407.4	1388.2	1342.7
5°	1416.1	1565.7	1746.6	1768.5	1778.4	1768.5	1730.7	1556.7	1394.4	1325.2	1250.1
7.5°	1398.7	1660.4	1744.6	1695.8	1696.1	1705.1	1747.2	1652.3	1376.2	1267.5	1175.3
10°	1381.4	1713.1	1701.9	1631.4	1644.1	1638.5	1714.9	1702.8	1361.2	1235.6	1130.2
12.5°	1358.3	1729.5	1645.3	1622.2	1636.0	1628.1	1653.7	1720.5	1348.5	1212.7	1078.3
15°	1317.9	1706.0	1597.9	1587.8	1587.8	1594.9	1605.2	1713.2	1322.2	1171.2	1014.8
17.5°	1276.3	1659.1	1565.0	1515.0	1509.6	1518.9	1576.9	1671.1	1285.0	1125.2	953.3
20°	1242.8	1626.7	1531.5	1472.9	1496.9	1475.7	1544.5	1635.5	1257.3	1096.4	915.2
22.5°	1212.8	1586.6	1488.8	1463.8	1495.7	1464.4	1500.6	1595.3	1224.9	1064.0	886.3
25°	1162.0	1519.1	1424.7	1448.1	1459.4	1448.1	1430.5	1525.0	1175.0	1022.6	856.0
27.5°	1111.5	1448.0	1376.8	1392.5	1358.0	1384.6	1384.6	1448.2	1123.6	974.3	846.7
30°	1071.1	1398.5	1352.5	1329.7	1276.0	1318.4	1362.6	1398.8	1085.5	942.9	844.4
32.5°	1017.9	1353.3	1328.3	1249.3	1214.8	1243.6	1339.6	1352.4	1026.6	914.5	842.1
35°	928.2	1289.5	1284.7	1154.0	1118.7	1145.5	1294.8	1286.1	905.1	869.8	824.2
37.5°	807.8	1232.6	1201.3	1057.7	1001.5	1050.6	1210.8	1226.5	761.3	828.8	782.4
40°	707.3	1194.2	1138.9	986.1	931.0	979.0	1146.1	1190.9	682.8	799.9	736.2
42.5°	650.7	1160.2	1073.1	910.3	569.6	898.7	1080.3	1155.9	634.3	762.7	695.8
45°	593.3	1098.6	977.2	503.9	319.0	479.9	978.7	1083.2	599.0	706.3	633.7
47.5°	568.2	1022.6	877.1	303.5	269.4	294.8	876.2	1006.0	568.4	649.7	574.5
50°	548.5	974.8	805.5	267.4	220.9	257.5	806.9	959.0	538.4	611.8	534.1
52.5°	516.2	917.6	702.7	221.6	190.8	216.2	685.7	899.6	507.2	570.5	483.3
55°	461.9	807.7	293.0	174.2	153.0	167.1	278.6	780.5	446.0	505.3	424.4
57.5°	404.5	687.6	205.6	135.6	118.7	134.2	204.1	660.0	397.0	428.0	370.1
60°	371.0	606.7	167.4	113.8	102.5	112.4	166.0	582.6	368.1	376.6	320.5
62.5°	337.5	524.6	138.6	100.1	96.7	98.7	138.3	498.3	332.3	332.9	225.8
65°	288.7	397.4	102.5	90.9	89.5	89.5	99.6	383.1	282.9	274.5	129.9
67.5°	239.0	285.3	82.3	83.7	82.3	82.3	80.8	277.3	233.3	218.9	98.2
70°	207.9	219.2	76.5	77.9	76.5	76.5	75.1	213.4	202.1	169.6	92.4
72.5°	177.8	149.6	70.7	71.0	70.7	70.7	69.3	140.4	172.1	119.3	84.3
75°	134.2	75.0	60.6	60.6	60.6	60.6	59.2	72.0	128.5	77.7	72.2
77.5°	93.2	49.5	50.2	49.9	49.9	48.8	48.8	49.1	87.8	53.6	58.3
80°	67.8	41.0	43.3	41.9	41.9	41.9	41.9	39.5	63.5	45.2	49.1
82.5°	48.2	32.7	35.2	33.8	33.8	33.8	33.8	32.3	43.9	36.8	39.8
85°	23.1	21.7	23.1	20.2	18.8	20.2	21.7	21.6	20.2	24.4	26.0
87.5°	6.9	11.4	11.4	10.2	10.2	10.2	10.2	10.2	5.8	12.5	12.6
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: P621714

CATALOG NUMBER: VLT-FA-125U-100D-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: P621714

CATALOG NUMBER: VLT-FA-125U-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1326.5	1325.4	1327.7	1347.3	1387.4	1423.6
5°	1208.3	1212.5	1216.8	1250.1	1320.1	1416.1
7.5°	1117.4	1111.2	1120.8	1175.0	1261.0	1398.7
10°	1054.9	1040.7	1054.9	1128.8	1229.0	1381.4
12.5°	995.9	978.4	1000.4	1081.5	1202.5	1358.3
15°	919.9	936.8	926.9	1017.7	1162.6	1317.9
17.5°	937.9	1023.1	956.0	962.2	1123.0	1276.3
20°	980.7	1068.2	1008.9	925.3	1097.5	1242.8
22.5°	1019.4	1085.5	1031.9	894.1	1072.0	1212.8
25°	1049.3	1105.7	1046.4	866.1	1035.0	1162.0
27.5°	1050.7	1058.6	1051.3	863.8	989.3	1111.5
30°	1031.3	997.4	1028.5	866.1	956.7	1071.1
32.5°	975.8	937.4	963.9	861.5	923.9	1017.9
35°	896.7	845.9	882.6	837.2	873.1	928.2
37.5°	813.2	748.9	799.7	789.3	829.8	807.8
40°	756.7	643.8	745.4	741.9	806.1	707.3
42.5°	684.3	588.4	674.2	703.8	780.0	650.7
45°	552.6	541.3	547.0	639.5	724.5	593.3
47.5°	505.3	497.7	502.5	580.9	661.9	568.2
50°	477.6	467.7	474.7	542.7	621.9	548.5
52.5°	439.1	412.3	436.3	490.8	580.5	516.2
55°	330.2	249.7	328.8	431.6	518.4	461.9
57.5°	193.7	144.3	189.5	375.6	439.2	404.5
60°	131.1	121.3	132.5	330.6	386.5	371.0
62.5°	119.7	116.6	120.0	230.1	339.5	337.5
65°	109.7	108.3	109.7	132.8	280.2	288.7
67.5°	99.3	97.9	100.4	101.9	221.3	239.0
70°	92.4	90.9	92.4	93.8	169.8	207.9
72.5°	84.3	82.9	84.3	85.7	119.4	177.8
75°	72.1	70.7	72.1	73.6	79.2	134.2
77.5°	58.3	58.3	59.7	59.8	55.4	93.2
80°	49.1	49.1	50.5	50.5	48.1	67.8
82.5°	39.8	38.7	41.2	42.4	39.7	48.2
85°	24.5	23.1	25.9	27.4	25.9	23.1
87.5°	12.5	11.3	13.6	14.9	13.6	6.9
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: P621714

CATALOG NUMBER: VLT-FA-125U-100D-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

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