

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: P621719

Luminaire Tested: VLT-FA-125U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621719
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

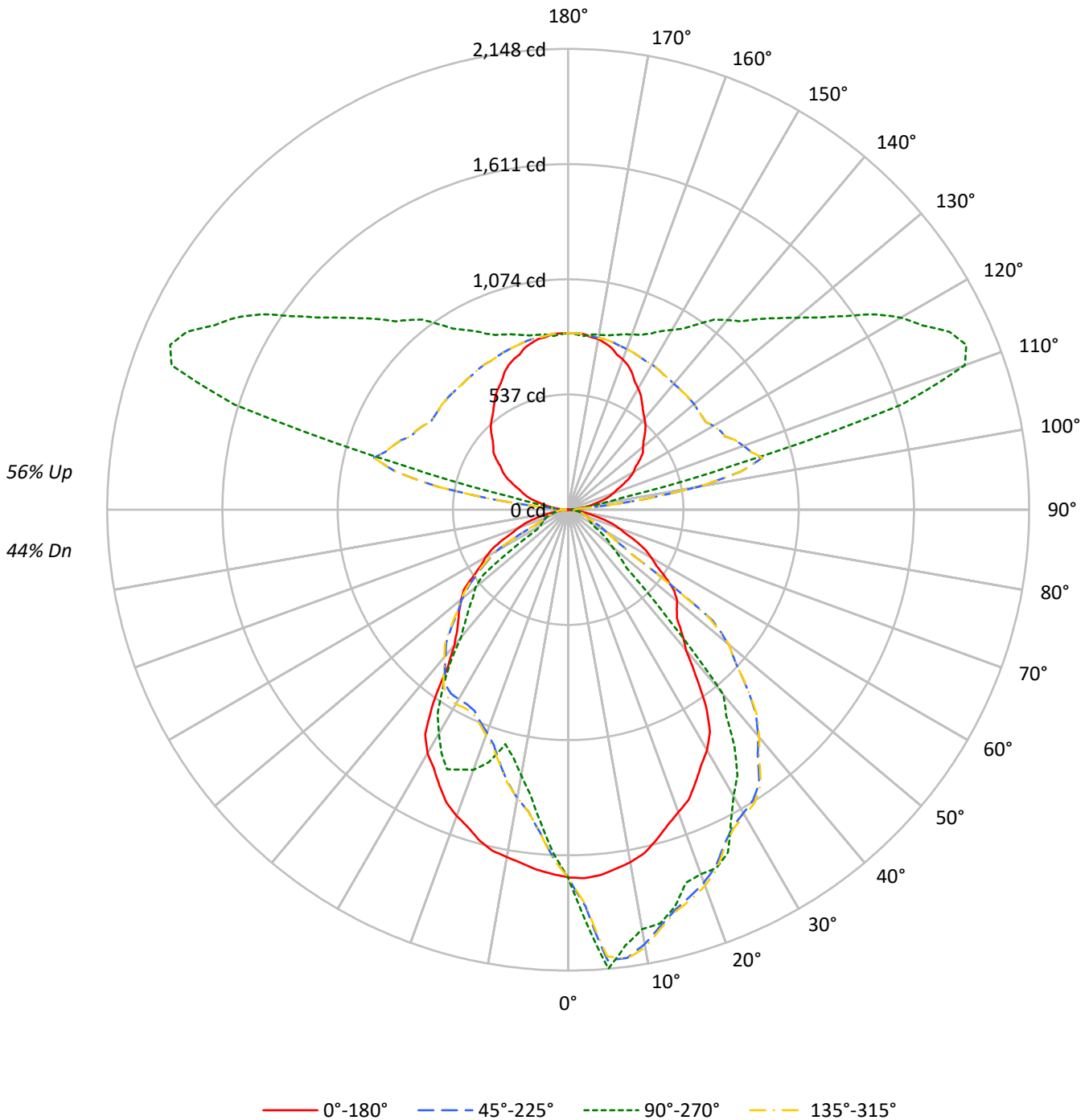
Lumens per Lamp: N/A
Luminaire Lumens: 7954.6 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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



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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	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°	12296	12296	12296	12296
5°	12318	15469	12129	10547
10°	12155	14467	11977	9158
15°	11823	14245	11862	8405
20°	11461	13804	11594	9850
25°	11110	13953	11235	10572
30°	10717	12768	10861	9981
35°	9818	11834	9574	8948
40°	8001	10532	7724	7282
45°	7270	3909	7341	6634
50°	7395	2977	7259	6305
55°	6979	2312	6738	3773
60°	6430	1777	6379	2101
65°	5919	1836	5800	2219
70°	5266	1939	5119	2304
75°	4494	2030	4300	2368
80°	3384	2087	3170	2451
85°	2297	1869	2009	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.1
10°-20°	452.8	5.7
20°-30°	677.5	8.5
30°-40°	770.5	9.7
40°-50°	659.0	8.3
50°-60°	444.4	5.6
60°-70°	229.4	2.9
70°-80°	103.6	1.3
80°-90°	32.7	0.4
90°-100°	101.2	1.3
100°-110°	720.8	9.1
110°-120°	978.6	12.3
120°-130°	796.5	10.0
130°-140°	640.6	8.1
140°-150°	505.0	6.3
150°-160°	369.3	4.6
160°-170°	229.4	2.9
170°-180°	78.2	1.0
0°-30°	1295.6	16.3
0°-40°	2066.1	26.0
0°-60°	3169.5	39.8
0°-90°	3535.1	44.4
90°-120°	1800.6	22.6
90°-150°	3742.6	47.1
90°-180°	4419.0	55.6
0°-180°	7954.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1714	1714	1714	1714	1714	
5°	1710	2148	1684	1464	1710	162
15°	1591	1917	1597	1131	1591	448
25°	1403	1762	1419	1335	1403	646
35°	1121	1351	1093	1021	1121	685
45°	716	385	723	654	716	568
55°	558	185	539	302	558	497
65°	349	108	342	131	349	345
75°	162	73	155	85	162	173
85°	28	23	24	28	28	36
90°	0	16	0	16	0	3
95°	41	57	41	57	41	46
105°	160	792	160	792	160	169
115°	285	1961	285	1961	285	283
125°	409	1573	409	1573	409	363
135°	507	1257	507	1257	507	390
145°	600	1056	600	1056	600	377
155°	704	906	704	906	704	323
165°	781	843	781	843	781	219
175°	823	812	823	812	823	78
180°	823	823	823	823	823	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1719.0	1777.7	1851.5	1902.2	1924.0	1902.2	1839.0	1777.2	1699.5	1676.3	1621.4
5°	1710.0	1890.6	2109.1	2135.5	2147.5	2135.5	2090.0	1879.8	1683.8	1600.3	1509.5
7.5°	1689.0	2005.0	2106.7	2047.8	2048.1	2059.0	2109.8	1995.2	1661.9	1530.6	1419.2
10°	1668.1	2068.7	2055.1	1970.0	1985.4	1978.6	2070.8	2056.2	1643.7	1492.0	1364.8
12.5°	1640.2	2088.5	1986.8	1958.9	1975.6	1966.1	1996.9	2077.7	1628.4	1464.4	1302.1
15°	1591.4	2060.1	1929.6	1917.4	1917.4	1925.9	1938.3	2068.8	1596.7	1414.3	1225.4
17.5°	1541.2	2003.5	1889.9	1829.4	1822.9	1834.2	1904.1	2018.0	1551.7	1358.8	1151.1
20°	1500.8	1964.4	1849.4	1778.6	1807.6	1782.0	1865.1	1975.0	1518.2	1323.9	1105.1
22.5°	1464.5	1915.9	1797.8	1767.7	1806.2	1768.3	1812.1	1926.4	1479.2	1284.9	1070.3
25°	1403.2	1834.4	1720.4	1748.6	1762.3	1748.6	1727.4	1841.5	1418.9	1234.8	1033.6
27.5°	1342.2	1748.5	1662.6	1681.5	1639.9	1671.9	1672.0	1748.8	1356.8	1176.5	1022.5
30°	1293.4	1688.8	1633.3	1605.7	1540.9	1592.0	1645.5	1689.2	1310.8	1138.7	1019.7
32.5°	1229.2	1634.2	1604.0	1508.6	1467.0	1501.7	1617.6	1633.0	1239.7	1104.4	1016.9
35°	1120.8	1557.1	1551.3	1393.5	1350.9	1383.3	1563.5	1553.1	1092.9	1050.3	995.3
37.5°	975.4	1488.4	1450.6	1277.2	1209.4	1268.7	1462.1	1481.1	919.3	1000.8	944.8
40°	854.1	1442.1	1375.3	1190.8	1124.3	1182.2	1384.0	1438.0	824.5	965.9	889.0
42.5°	785.8	1401.1	1295.8	1099.3	687.8	1085.3	1304.5	1395.8	765.9	921.0	840.2
45°	716.4	1326.6	1180.1	608.5	385.2	579.5	1181.8	1308.0	723.4	852.9	765.2
47.5°	686.1	1234.9	1059.1	366.5	325.3	355.9	1058.1	1214.8	686.4	784.6	693.7
50°	662.4	1177.1	972.6	322.9	266.7	311.0	974.4	1158.1	650.2	738.8	644.9
52.5°	623.3	1108.0	848.5	267.6	230.4	261.1	828.0	1086.3	612.5	688.9	583.6
55°	557.8	975.4	353.8	210.3	184.8	201.8	336.4	942.5	538.6	610.2	512.5
57.5°	488.4	830.3	248.2	163.7	143.3	162.0	246.5	797.0	479.3	516.8	446.9
60°	448.0	732.6	202.2	137.4	123.8	135.7	200.5	703.5	444.5	454.7	387.0
62.5°	407.5	633.5	167.3	120.9	116.8	119.2	167.0	601.7	401.3	401.9	272.6
65°	348.6	479.9	123.8	109.8	108.1	108.1	120.3	462.7	341.6	331.4	156.9
67.5°	288.7	344.6	99.4	101.1	99.4	99.4	97.6	334.9	281.7	264.3	118.5
70°	251.0	264.6	92.4	94.1	92.4	92.4	90.6	257.7	244.0	204.8	111.6
72.5°	214.7	180.7	85.4	85.8	85.4	85.4	83.7	169.6	207.8	144.0	101.8
75°	162.1	90.5	73.2	73.2	73.2	73.2	71.5	87.0	155.1	93.8	87.2
77.5°	112.6	59.8	60.7	60.3	60.3	58.9	58.9	59.3	106.0	64.7	70.4
80°	81.9	49.5	52.3	50.5	50.5	50.5	50.5	47.7	76.7	54.5	59.3
82.5°	58.2	39.5	42.5	40.8	40.8	40.8	40.8	39.0	53.0	44.5	48.1
85°	27.9	26.2	27.9	24.4	22.7	24.4	26.1	26.1	24.4	29.5	31.4
87.5°	8.4	13.5	13.2	11.5	11.5	11.5	11.8	12.1	7.0	14.8	14.6
90°	0.0	5.1	10.3	15.5	15.5	15.5	10.3	5.1	0.0	5.1	10.3
92.5°	12.4	17.5	22.8	32.2	36.2	32.2	22.8	17.5	12.4	17.5	22.8
95°	41.4	76.8	41.4	46.8	56.9	46.8	41.4	76.8	41.4	76.8	41.4
97.5°	73.5	147.3	304.3	89.8	77.6	89.8	304.3	147.3	73.5	147.3	304.3
100°	98.3	184.3	610.6	179.7	119.0	179.7	610.6	184.3	98.3	184.3	610.6
102.5°	123.2	213.2	825.8	474.3	259.8	474.3	825.8	213.2	123.2	213.2	825.8
105°	160.4	246.4	936.6	1196.4	791.7	1196.4	936.6	246.4	160.4	246.4	936.6
107.5°	197.7	262.4	894.1	1741.3	1631.0	1741.3	894.1	262.4	197.7	262.4	894.1
110°	222.5	283.2	869.3	1829.7	1966.3	1829.7	869.3	283.2	222.5	283.2	869.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	247.3	308.0	844.5	1778.0	2007.7	1778.0	844.5	308.0	247.3	308.0	844.5
115°	284.6	345.3	807.2	1677.8	1961.1	1677.8	807.2	345.3	284.6	345.3	807.2
117.5°	322.9	382.6	797.9	1569.3	1860.7	1569.3	797.9	382.6	322.9	382.6	797.9
120°	351.9	407.5	781.3	1486.8	1790.3	1486.8	781.3	407.5	351.9	407.5	781.3
122.5°	372.6	432.3	760.6	1415.9	1695.1	1415.9	760.6	432.3	372.6	432.3	760.6
125°	408.8	464.4	760.6	1330.2	1573.0	1330.2	760.6	464.4	408.8	464.4	760.6
127.5°	438.8	495.5	761.7	1230.8	1470.6	1230.8	761.7	495.5	438.8	495.5	761.7
130°	455.3	516.1	765.8	1164.2	1391.9	1164.2	765.8	516.1	455.3	516.1	765.8
132.5°	476.0	536.8	765.8	1134.3	1321.5	1134.3	765.8	536.8	476.0	536.8	765.8
135°	507.1	562.7	765.8	1095.5	1257.4	1095.5	765.8	562.7	507.1	562.7	765.8
137.5°	533.0	592.7	765.8	1052.5	1191.1	1052.5	765.8	592.7	533.0	592.7	765.8
140°	553.7	609.3	765.8	1027.4	1153.9	1027.4	765.8	609.3	553.7	609.3	765.8
142.5°	574.4	626.0	770.0	998.2	1116.6	998.2	770.0	626.0	574.4	626.0	770.0
145°	600.2	650.8	771.0	954.4	1055.6	954.4	771.0	650.8	600.2	650.8	771.0
147.5°	631.3	675.8	777.2	922.8	1000.7	922.8	777.2	675.8	631.3	675.8	777.2
150°	652.0	692.5	781.3	901.8	967.6	901.8	781.3	692.5	652.0	692.5	781.3
152.5°	672.7	709.1	781.3	885.0	938.6	885.0	781.3	709.1	672.7	709.1	781.3
155°	703.7	729.0	786.5	865.0	905.5	865.0	786.5	729.0	703.7	729.0	786.5
157.5°	728.6	752.8	792.7	852.4	881.7	852.4	792.7	752.8	728.6	752.8	792.7
160°	745.1	765.4	796.9	844.0	869.3	844.0	796.9	765.4	745.1	765.4	796.9
162.5°	757.5	777.8	801.0	839.7	856.9	839.7	801.0	777.8	757.5	777.8	801.0
165°	781.3	791.5	807.2	828.3	843.4	828.3	807.2	791.5	781.3	791.5	807.2
167.5°	794.8	803.9	812.4	822.9	832.0	822.9	812.4	803.9	794.8	803.9	812.4
170°	807.2	812.3	812.4	822.8	827.9	822.8	812.4	812.3	807.2	812.3	812.4
172.5°	811.3	820.5	816.5	818.7	823.8	818.7	816.5	820.5	811.3	820.5	816.5
175°	822.7	827.8	822.7	817.4	812.4	817.4	822.7	827.8	822.7	827.8	822.7
177.5°	822.7	826.8	822.7	822.6	818.6	822.6	822.7	826.8	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1601.9	1600.5	1603.2	1627.0	1675.4	1719.0
5°	1459.1	1464.2	1469.3	1509.5	1594.1	1710.0
7.5°	1349.3	1341.8	1353.4	1418.9	1522.7	1689.0
10°	1273.8	1256.8	1273.8	1363.1	1484.1	1668.1
12.5°	1202.6	1181.5	1208.1	1305.9	1452.1	1640.2
15°	1110.8	1131.3	1119.3	1228.9	1404.0	1591.4
17.5°	1132.6	1235.5	1154.4	1161.9	1356.1	1541.2
20°	1184.2	1289.9	1218.3	1117.3	1325.2	1500.8
22.5°	1231.0	1310.8	1246.0	1079.7	1294.4	1464.5
25°	1267.0	1335.2	1263.6	1045.9	1249.8	1403.2
27.5°	1268.8	1278.4	1269.5	1043.1	1194.6	1342.2
30°	1245.4	1204.5	1242.0	1045.9	1155.3	1293.4
32.5°	1178.3	1132.0	1164.0	1040.3	1115.7	1229.2
35°	1082.8	1021.4	1065.8	1011.0	1054.3	1120.8
37.5°	982.0	904.3	965.7	953.1	1002.0	975.4
40°	913.8	777.4	900.1	895.9	973.4	854.1
42.5°	826.4	710.5	814.1	849.9	941.9	785.8
45°	667.3	653.7	660.5	772.2	874.9	716.4
47.5°	610.2	601.0	606.8	701.4	799.2	686.1
50°	576.7	564.8	573.3	655.4	751.0	662.4
52.5°	530.2	497.8	526.8	592.6	701.0	623.3
55°	398.7	301.6	397.0	521.2	626.0	557.8
57.5°	234.0	174.3	228.8	453.6	530.3	488.4
60°	158.3	146.4	160.1	399.2	466.7	448.0
62.5°	144.6	140.8	144.9	277.8	409.9	407.5
65°	132.4	130.7	132.4	160.4	338.4	348.6
67.5°	119.9	118.2	121.2	123.1	267.2	288.7
70°	111.5	109.8	111.5	113.3	205.0	251.0
72.5°	101.8	100.1	101.8	103.5	144.2	214.7
75°	87.1	85.4	87.1	88.9	95.6	162.1
77.5°	70.4	70.4	72.1	72.2	66.9	112.6
80°	59.3	59.3	61.0	61.0	58.1	81.9
82.5°	48.1	46.7	49.8	51.2	48.0	58.2
85°	29.6	27.9	31.3	33.1	31.3	27.9
87.5°	14.2	12.9	15.6	17.4	16.2	8.4
90°	15.5	15.5	15.5	10.3	5.1	0.0
92.5°	32.2	36.2	32.2	22.8	17.5	12.4
95°	46.8	56.9	46.8	41.4	76.8	41.4
97.5°	89.8	77.6	89.8	304.3	147.3	73.5
100°	179.7	119.0	179.7	610.6	184.3	98.3
102.5°	474.3	259.8	474.3	825.8	213.2	123.2
105°	1196.4	791.7	1196.4	936.6	246.4	160.4
107.5°	1741.3	1631.0	1741.3	894.1	262.4	197.7
110°	1829.7	1966.3	1829.7	869.3	283.2	222.5



TEST NUMBER: P621719

CATALOG NUMBER: VLT-FA-125U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1778.0	2007.7	1778.0	844.5	308.0	247.3
115°	1677.8	1961.1	1677.8	807.2	345.3	284.6
117.5°	1569.3	1860.7	1569.3	797.9	382.6	322.9
120°	1486.8	1790.3	1486.8	781.3	407.5	351.9
122.5°	1415.9	1695.1	1415.9	760.6	432.3	372.6
125°	1330.2	1573.0	1330.2	760.6	464.4	408.8
127.5°	1230.8	1470.6	1230.8	761.7	495.5	438.8
130°	1164.2	1391.9	1164.2	765.8	516.1	455.3
132.5°	1134.3	1321.5	1134.3	765.8	536.8	476.0
135°	1095.5	1257.4	1095.5	765.8	562.7	507.1
137.5°	1052.5	1191.1	1052.5	765.8	592.7	533.0
140°	1027.4	1153.9	1027.4	765.8	609.3	553.7
142.5°	998.2	1116.6	998.2	770.0	626.0	574.4
145°	954.4	1055.6	954.4	771.0	650.8	600.2
147.5°	922.8	1000.7	922.8	777.2	675.8	631.3
150°	901.8	967.6	901.8	781.3	692.5	652.0
152.5°	885.0	938.6	885.0	781.3	709.1	672.7
155°	865.0	905.5	865.0	786.5	729.0	703.7
157.5°	852.4	881.7	852.4	792.7	752.8	728.6
160°	844.0	869.3	844.0	796.9	765.4	745.1
162.5°	839.7	856.9	839.7	801.0	777.8	757.5
165°	828.3	843.4	828.3	807.2	791.5	781.3
167.5°	822.9	832.0	822.9	812.4	803.9	794.8
170°	822.8	827.9	822.8	812.4	812.3	807.2
172.5°	818.7	823.8	818.7	816.5	820.5	811.3
175°	817.4	812.4	817.4	822.7	827.8	822.7
177.5°	822.6	818.6	822.6	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7

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