

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: P621647

Luminaire Tested: VLT-FA-075U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621647
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-075U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

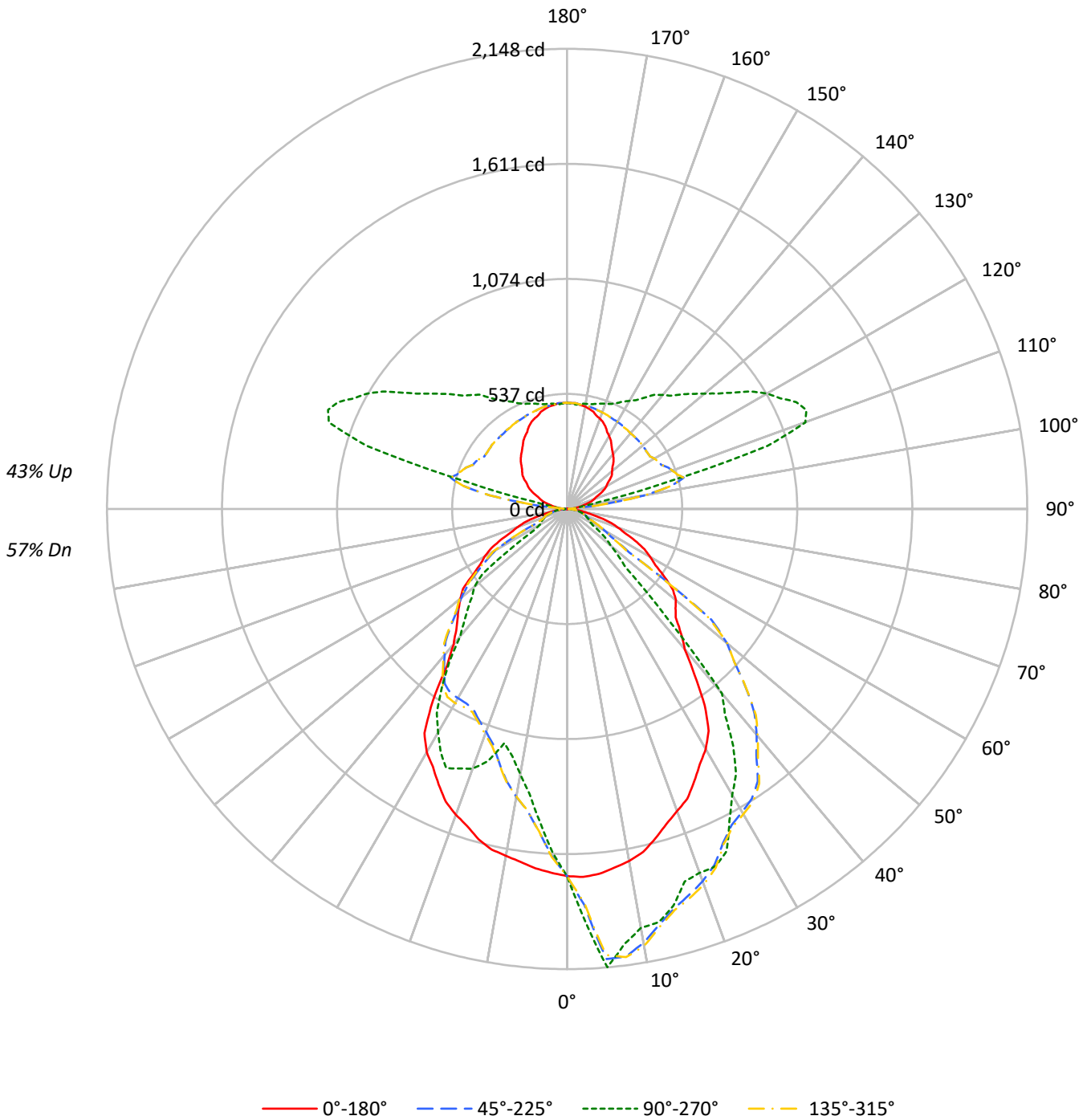
Lumens per Lamp: N/A
Luminaire Lumens: 6193.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.5
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: P621647
CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0														
RCR																																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57																				
1	100	96	93	90	93	90	87	84	78	76	74	67	65	64	57	56	55	50																				
2	92	85	80	75	86	80	75	71	69	66	63	60	57	55	51	49	48	43																				
3	85	76	69	63	79	71	65	60	62	58	54	54	50	48	46	44	42	38																				
4	78	68	60	54	72	64	57	52	56	51	47	49	45	42	42	39	37	33																				
5	72	61	53	47	67	57	50	45	50	45	41	44	40	37	38	35	32	29																				
6	66	55	47	41	62	52	45	40	46	40	36	40	36	32	35	32	29	26																				
7	62	50	42	37	57	47	40	35	42	36	32	37	32	29	32	29	26	24																				
8	57	45	38	33	54	43	36	31	38	33	29	34	29	26	30	26	24	21																				
9	54	42	34	29	50	39	33	28	35	30	26	31	27	24	27	24	21	19																				
10	50	38	31	27	47	36	30	26	33	27	24	29	25	22	25	22	20	18																				

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



TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.7
10°-20°	452.8	7.3
20°-30°	677.5	10.9
30°-40°	770.5	12.4
40°-50°	659.0	10.6
50°-60°	444.4	7.2
60°-70°	229.4	3.7
70°-80°	103.6	1.7
80°-90°	31.9	0.5
90°-100°	60.9	1.0
100°-110°	433.8	7.0
110°-120°	588.9	9.5
120°-130°	479.3	7.7
130°-140°	385.5	6.2
140°-150°	303.9	4.9
150°-160°	222.2	3.6
160°-170°	138.0	2.2
170°-180°	47.1	0.8
0°-30°	1295.6	20.9
0°-40°	2066.1	33.4
0°-60°	3169.5	51.2
0°-90°	3534.3	57.1
90°-120°	1083.5	17.5
90°-150°	2252.2	36.4
90°-180°	2659.0	42.9
0°-180°	6193.8	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	9	0	9	0	2
95°	25	34	25	34	25	28
105°	96	476	96	476	96	102
115°	171	1180	171	1180	171	170
125°	246	947	246	947	246	219
135°	305	757	305	757	305	235
145°	361	635	361	635	361	227
155°	424	545	424	545	424	194
165°	470	508	470	508	470	132
175°	495	489	495	489	495	47
180°	495	495	495	495	495	



TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

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	13.1	12.4	10.2	10.2	10.2	11.0	11.7	7.0	14.4	13.8
90°	0.0	3.0	6.2	9.3	9.3	9.3	6.2	3.0	0.0	3.0	6.2
92.5°	7.5	10.5	13.7	19.4	21.8	19.4	13.7	10.5	7.5	10.5	13.7
95°	24.9	46.2	24.9	28.2	34.3	28.2	24.9	46.2	24.9	46.2	24.9
97.5°	44.2	88.7	183.1	54.0	46.7	54.0	183.1	88.7	44.2	88.7	183.1
100°	59.2	110.9	367.4	108.2	71.6	108.2	367.4	110.9	59.2	110.9	367.4
102.5°	74.1	128.3	497.0	285.4	156.3	285.4	497.0	128.3	74.1	128.3	497.0
105°	96.5	148.3	563.6	720.0	476.4	720.0	563.6	148.3	96.5	148.3	563.6
107.5°	118.9	157.9	538.1	1047.8	981.5	1047.8	538.1	157.9	118.9	157.9	538.1
110°	133.9	170.4	523.1	1101.0	1183.2	1101.0	523.1	170.4	133.9	170.4	523.1



TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-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°	148.8	185.4	508.2	1069.9	1208.1	1069.9	508.2	185.4	148.8	185.4	508.2
115°	171.3	207.8	485.8	1009.6	1180.1	1009.6	485.8	207.8	171.3	207.8	485.8
117.5°	194.3	230.2	480.1	944.3	1119.7	944.3	480.1	230.2	194.3	230.2	480.1
120°	211.7	245.2	470.2	894.7	1077.4	894.7	470.2	245.2	211.7	245.2	470.2
122.5°	224.2	260.1	457.7	852.0	1020.1	852.0	457.7	260.1	224.2	260.1	457.7
125°	246.0	279.5	457.7	800.5	946.6	800.5	457.7	279.5	246.0	279.5	457.7
127.5°	264.0	298.1	458.3	740.6	884.9	740.6	458.3	298.1	264.0	298.1	458.3
130°	274.0	310.5	460.8	700.6	837.6	700.6	460.8	310.5	274.0	310.5	460.8
132.5°	286.5	323.0	460.8	682.6	795.3	682.6	460.8	323.0	286.5	323.0	460.8
135°	305.2	338.6	460.8	659.2	756.7	659.2	460.8	338.6	305.2	338.6	460.8
137.5°	320.7	356.6	460.8	633.4	716.8	633.4	460.8	356.6	320.7	356.6	460.8
140°	333.2	366.7	460.8	618.3	694.4	618.3	460.8	366.7	333.2	366.7	460.8
142.5°	345.6	376.7	463.3	600.7	672.0	600.7	463.3	376.7	345.6	376.7	463.3
145°	361.2	391.6	464.0	574.3	635.2	574.3	464.0	391.6	361.2	391.6	464.0
147.5°	379.9	406.7	467.7	555.3	602.2	555.3	467.7	406.7	379.9	406.7	467.7
150°	392.3	416.7	470.2	542.7	582.3	542.7	470.2	416.7	392.3	416.7	470.2
152.5°	404.8	426.7	470.2	532.6	564.8	532.6	470.2	426.7	404.8	426.7	470.2
155°	423.5	438.7	473.3	520.6	544.9	520.6	473.3	438.7	423.5	438.7	473.3
157.5°	438.4	453.0	477.0	512.9	530.6	512.9	477.0	453.0	438.4	453.0	477.0
160°	448.4	460.6	479.5	507.9	523.1	507.9	479.5	460.6	448.4	460.6	479.5
162.5°	455.9	468.0	482.0	505.3	515.6	505.3	482.0	468.0	455.9	468.0	482.0
165°	470.2	476.3	485.8	498.4	507.5	498.4	485.8	476.3	470.2	476.3	485.8
167.5°	478.3	483.8	488.9	495.2	500.7	495.2	488.9	483.8	478.3	483.8	488.9
170°	485.8	488.8	488.9	495.2	498.2	495.2	488.9	488.8	485.8	488.8	488.9
172.5°	488.2	493.7	491.4	492.7	495.7	492.7	491.4	493.7	488.2	493.7	491.4
175°	495.1	498.1	495.1	491.9	488.9	491.9	495.1	498.1	495.1	498.1	495.1
177.5°	495.1	497.5	495.1	495.0	492.6	495.0	495.1	497.5	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1



TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

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°	13.0	11.6	14.4	16.6	15.8	8.4
90°	9.3	9.3	9.3	6.2	3.0	0.0
92.5°	19.4	21.8	19.4	13.7	10.5	7.5
95°	28.2	34.3	28.2	24.9	46.2	24.9
97.5°	54.0	46.7	54.0	183.1	88.7	44.2
100°	108.2	71.6	108.2	367.4	110.9	59.2
102.5°	285.4	156.3	285.4	497.0	128.3	74.1
105°	720.0	476.4	720.0	563.6	148.3	96.5
107.5°	1047.8	981.5	1047.8	538.1	157.9	118.9
110°	1101.0	1183.2	1101.0	523.1	170.4	133.9



TEST NUMBER: P621647

CATALOG NUMBER: VLT-FA-075U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1069.9	1208.1	1069.9	508.2	185.4	148.8
115°	1009.6	1180.1	1009.6	485.8	207.8	171.3
117.5°	944.3	1119.7	944.3	480.1	230.2	194.3
120°	894.7	1077.4	894.7	470.2	245.2	211.7
122.5°	852.0	1020.1	852.0	457.7	260.1	224.2
125°	800.5	946.6	800.5	457.7	279.5	246.0
127.5°	740.6	884.9	740.6	458.3	298.1	264.0
130°	700.6	837.6	700.6	460.8	310.5	274.0
132.5°	682.6	795.3	682.6	460.8	323.0	286.5
135°	659.2	756.7	659.2	460.8	338.6	305.2
137.5°	633.4	716.8	633.4	460.8	356.6	320.7
140°	618.3	694.4	618.3	460.8	366.7	333.2
142.5°	600.7	672.0	600.7	463.3	376.7	345.6
145°	574.3	635.2	574.3	464.0	391.6	361.2
147.5°	555.3	602.2	555.3	467.7	406.7	379.9
150°	542.7	582.3	542.7	470.2	416.7	392.3
152.5°	532.6	564.8	532.6	470.2	426.7	404.8
155°	520.6	544.9	520.6	473.3	438.7	423.5
157.5°	512.9	530.6	512.9	477.0	453.0	438.4
160°	507.9	523.1	507.9	479.5	460.6	448.4
162.5°	505.3	515.6	505.3	482.0	468.0	455.9
165°	498.4	507.5	498.4	485.8	476.3	470.2
167.5°	495.2	500.7	495.2	488.9	483.8	478.3
170°	495.2	498.2	495.2	488.9	488.8	485.8
172.5°	492.7	495.7	492.7	491.4	493.7	488.2
175°	491.9	488.9	491.9	495.1	498.1	495.1
177.5°	495.0	492.6	495.0	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1

(END OF REPORT)