

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: P621717

Luminaire Tested: VLT-FA-125U-125D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621717
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-840-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

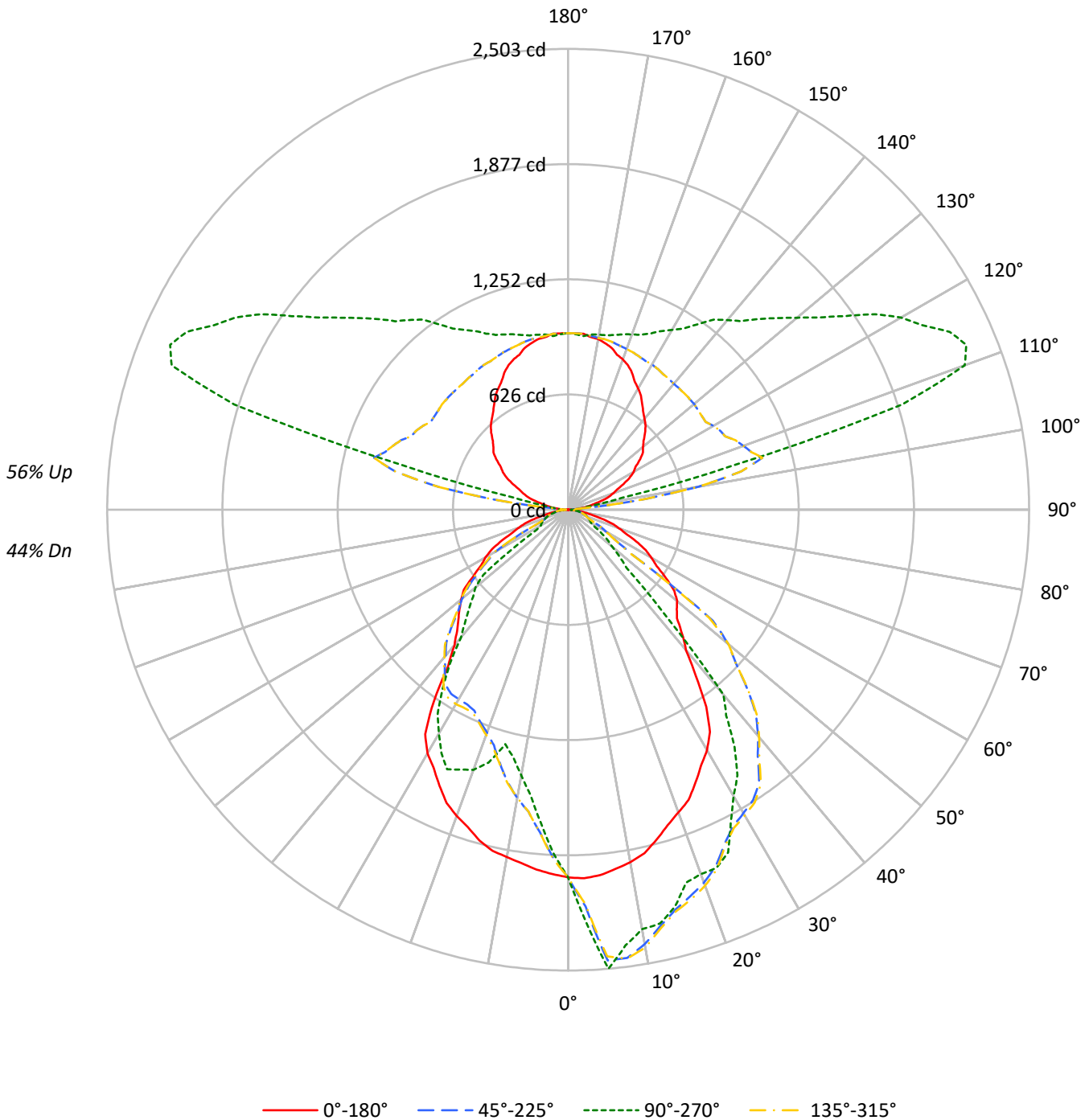
Lumens per Lamp: N/A
Luminaire Lumens: 9270.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	14330	14330	14330	14330
5°	14355	18028	14135	12292
10°	14165	16860	13958	10672
15°	13779	16600	13824	9795
20°	13356	16087	13511	11479
25°	12948	16261	13093	12320
30°	12490	14880	12658	11631
35°	11443	13791	11158	10428
40°	9324	12273	9000	8487
45°	8473	4556	8555	7731
50°	8617	3470	8459	7348
55°	8132	2694	7853	4396
60°	7493	2070	7434	2448
65°	6899	2138	6761	2588
70°	6137	2260	5967	2686
75°	5237	2365	5013	2759
80°	3947	2434	3694	2856
85°	2676	2174	2338	2676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15689 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	2.1
10°-20°	527.7	5.7
20°-30°	789.6	8.5
30°-40°	898.0	9.7
40°-50°	768.0	8.3
50°-60°	517.9	5.6
60°-70°	267.3	2.9
70°-80°	120.7	1.3
80°-90°	38.1	0.4
90°-100°	117.9	1.3
100°-110°	840.0	9.1
110°-120°	1140.5	12.3
120°-130°	928.2	10.0
130°-140°	746.5	8.1
140°-150°	588.6	6.3
150°-160°	430.4	4.6
160°-170°	267.3	2.9
170°-180°	91.2	1.0
0°-30°	1509.9	16.3
0°-40°	2407.9	26.0
0°-60°	3693.7	39.8
0°-90°	4119.8	44.4
90°-120°	2098.4	22.6
90°-150°	4361.7	47.1
90°-180°	5150.0	55.6
0°-180°	9270.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1997	1997	1997	1997	1997	
5°	1993	2503	1962	1706	1993	188
15°	1855	2234	1861	1318	1855	522
25°	1635	2054	1654	1556	1635	753
35°	1306	1574	1274	1190	1306	799
45°	835	449	843	762	835	662
55°	650	215	628	351	650	579
65°	406	126	398	152	406	402
75°	189	85	181	100	189	201
85°	32	26	28	32	32	42
90°	0	18	0	18	0	3
95°	48	66	48	66	48	54
105°	187	923	187	923	187	197
115°	332	2286	332	2286	332	329
125°	476	1833	476	1833	476	423
135°	591	1465	591	1465	591	455
145°	700	1230	700	1230	700	439
155°	820	1055	820	1055	820	376
165°	911	983	911	983	911	256
175°	959	947	959	947	959	91
180°	959	959	959	959	959	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9
2.5°	2003.4	2071.7	2157.7	2216.8	2242.3	2216.8	2143.1	2071.2	1980.6	1953.6	1889.6
5°	1992.8	2203.3	2458.0	2488.8	2502.7	2488.8	2435.6	2190.7	1962.3	1865.0	1759.2
7.5°	1968.4	2336.7	2455.1	2386.5	2386.9	2399.6	2458.8	2325.2	1936.7	1783.8	1654.0
10°	1944.0	2410.8	2395.0	2295.9	2313.8	2305.8	2413.3	2396.3	1915.6	1738.8	1590.6
12.5°	1911.5	2433.9	2315.4	2282.9	2302.4	2291.3	2327.2	2421.3	1897.7	1706.6	1517.4
15°	1854.7	2400.9	2248.8	2234.5	2234.5	2244.5	2258.9	2410.9	1860.8	1648.2	1428.1
17.5°	1796.2	2334.8	2202.4	2132.0	2124.4	2137.5	2219.1	2351.8	1808.3	1583.5	1341.5
20°	1749.0	2289.3	2155.3	2072.8	2106.6	2076.8	2173.6	2301.7	1769.3	1542.9	1287.9
22.5°	1706.8	2232.7	2095.2	2060.0	2104.9	2060.8	2111.8	2245.0	1723.8	1497.4	1247.3
25°	1635.3	2137.8	2005.0	2037.8	2053.7	2037.8	2013.1	2146.1	1653.6	1439.0	1204.6
27.5°	1564.2	2037.7	1937.5	1959.6	1911.1	1948.5	1948.5	2038.1	1581.2	1371.1	1191.6
30°	1507.3	1968.1	1903.4	1871.2	1795.8	1855.3	1917.6	1968.6	1527.6	1327.0	1188.4
32.5°	1432.5	1904.5	1869.3	1758.1	1709.6	1750.1	1885.1	1903.2	1444.7	1287.0	1185.1
35°	1306.2	1814.7	1807.9	1624.0	1574.3	1612.1	1822.2	1810.0	1273.7	1224.0	1159.9
37.5°	1136.8	1734.6	1690.5	1488.4	1409.4	1478.5	1703.9	1726.0	1071.4	1166.3	1101.0
40°	995.4	1680.6	1602.8	1387.7	1310.2	1377.8	1612.9	1675.9	960.8	1125.7	1036.0
42.5°	915.8	1632.8	1510.1	1281.1	801.6	1264.8	1520.3	1626.7	892.6	1073.3	979.1
45°	834.9	1546.0	1375.3	709.1	448.9	675.4	1377.3	1524.3	843.0	994.0	891.8
47.5°	799.6	1439.1	1234.3	427.1	379.1	414.8	1233.1	1415.7	800.0	914.4	808.5
50°	771.9	1371.8	1133.5	376.3	310.8	362.4	1135.5	1349.6	757.7	861.0	751.6
52.5°	726.4	1291.3	988.9	311.9	268.6	304.3	964.9	1266.0	713.8	802.8	680.1
55°	650.0	1136.7	412.4	245.1	215.3	235.2	392.1	1098.4	627.7	711.1	597.2
57.5°	569.2	967.6	289.3	190.8	167.0	188.8	287.2	928.9	558.6	602.3	520.8
60°	522.1	853.8	235.6	160.1	144.2	158.1	233.6	819.9	518.0	529.9	451.0
62.5°	474.9	738.3	195.0	140.9	136.1	138.9	194.6	701.2	467.6	468.4	317.7
65°	406.3	559.2	144.2	127.9	125.9	125.9	140.2	539.2	398.2	386.2	182.8
67.5°	336.4	401.5	115.8	117.8	115.8	115.8	113.8	390.2	328.3	308.0	138.1
70°	292.5	308.4	107.7	109.7	107.7	107.7	105.6	300.3	284.4	238.7	130.0
72.5°	250.3	210.5	99.5	99.9	99.5	99.5	97.5	197.6	242.1	167.9	118.6
75°	188.9	105.5	85.3	85.3	85.3	85.3	83.3	101.3	180.8	109.3	101.6
77.5°	131.2	69.7	70.7	70.3	70.3	68.7	68.7	69.1	123.5	75.4	82.1
80°	95.5	57.7	60.9	58.9	58.9	58.9	58.9	55.6	89.4	63.6	69.1
82.5°	67.8	46.0	49.6	47.5	47.5	47.5	47.5	45.5	61.8	51.8	56.1
85°	32.5	30.5	32.5	28.4	26.4	28.4	30.5	30.4	28.4	34.4	36.6
87.5°	9.8	15.7	15.4	13.4	13.4	13.4	13.8	14.1	8.1	17.2	17.0
90°	0.0	5.9	12.1	18.1	18.1	18.1	12.1	5.9	0.0	5.9	12.1
92.5°	14.5	20.4	26.5	37.5	42.2	37.5	26.5	20.4	14.5	20.4	26.5
95°	48.2	89.5	48.2	54.5	66.3	54.5	48.2	89.5	48.2	89.5	48.2
97.5°	85.6	171.7	354.6	104.6	90.5	104.6	354.6	171.7	85.6	171.7	354.6
100°	114.6	214.8	711.6	209.5	138.7	209.5	711.6	214.8	114.6	214.8	711.6
102.5°	143.5	248.5	962.4	552.7	302.7	552.7	962.4	248.5	143.5	248.5	962.4
105°	186.9	287.2	1091.5	1394.3	922.6	1394.3	1091.5	287.2	186.9	287.2	1091.5
107.5°	230.4	305.8	1042.0	2029.3	1900.7	2029.3	1042.0	305.8	230.4	305.8	1042.0
110°	259.3	330.1	1013.1	2132.3	2291.5	2132.3	1013.1	330.1	259.3	330.1	1013.1



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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°	288.2	359.0	984.1	2072.1	2339.7	2072.1	984.1	359.0	288.2	359.0	984.1
115°	331.7	402.4	940.7	1955.3	2285.5	1955.3	940.7	402.4	331.7	402.4	940.7
117.5°	376.3	445.9	929.9	1828.9	2168.5	1828.9	929.9	445.9	376.3	445.9	929.9
120°	410.1	474.9	910.6	1732.7	2086.5	1732.7	910.6	474.9	410.1	474.9	910.6
122.5°	434.2	503.8	886.4	1650.0	1975.5	1650.0	886.4	503.8	434.2	503.8	886.4
125°	476.4	541.2	886.4	1550.2	1833.2	1550.2	886.4	541.2	476.4	541.2	886.4
127.5°	511.4	577.4	887.7	1434.3	1713.8	1434.3	887.7	577.4	511.4	577.4	887.7
130°	530.7	601.4	892.5	1356.8	1622.1	1356.8	892.5	601.4	530.7	601.4	892.5
132.5°	554.8	625.5	892.5	1322.0	1540.1	1322.0	892.5	625.5	554.8	625.5	892.5
135°	591.0	655.8	892.5	1276.7	1465.4	1276.7	892.5	655.8	591.0	655.8	892.5
137.5°	621.1	690.7	892.5	1226.6	1388.2	1226.6	892.5	690.7	621.1	690.7	892.5
140°	645.2	710.1	892.5	1197.3	1344.7	1197.3	892.5	710.1	645.2	710.1	892.5
142.5°	669.4	729.5	897.3	1163.4	1301.3	1163.4	897.3	729.5	669.4	729.5	897.3
145°	699.5	758.5	898.5	1112.2	1230.2	1112.2	898.5	758.5	699.5	758.5	898.5
147.5°	735.7	787.6	905.7	1075.5	1166.3	1075.5	905.7	787.6	735.7	787.6	905.7
150°	759.8	807.0	910.6	1051.0	1127.7	1051.0	910.6	807.0	759.8	807.0	910.6
152.5°	783.9	826.4	910.6	1031.4	1093.9	1031.4	910.6	826.4	783.9	826.4	910.6
155°	820.1	849.6	916.6	1008.1	1055.3	1008.1	916.6	849.6	820.1	849.6	916.6
157.5°	849.1	877.4	923.8	993.4	1027.6	993.4	923.8	877.4	849.1	877.4	923.8
160°	868.4	891.9	928.7	983.6	1013.1	983.6	928.7	891.9	868.4	891.9	928.7
162.5°	882.8	906.4	933.5	978.6	998.6	978.6	933.5	906.4	882.8	906.4	933.5
165°	910.6	922.4	940.7	965.2	982.9	965.2	940.7	922.4	910.6	922.4	940.7
167.5°	926.2	936.9	946.8	959.1	969.7	959.1	946.8	936.9	926.2	936.9	946.8
170°	940.7	946.6	946.8	958.9	964.8	958.9	946.8	946.6	940.7	946.6	946.8
172.5°	945.5	956.2	951.6	954.1	960.0	954.1	951.6	956.2	945.5	956.2	951.6
175°	958.8	964.7	958.8	952.6	946.8	952.6	958.8	964.7	958.8	964.7	958.8
177.5°	958.8	963.5	958.8	958.7	954.0	958.7	958.8	963.5	958.8	963.5	958.8
180°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1996.9	1996.9	1996.9	1996.9	1996.9	1996.9
2.5°	1866.8	1865.2	1868.4	1896.1	1952.5	2003.4
5°	1700.4	1706.4	1712.3	1759.2	1857.7	1992.8
7.5°	1572.5	1563.8	1577.3	1653.6	1774.6	1968.4
10°	1484.5	1464.6	1484.5	1588.5	1729.5	1944.0
12.5°	1401.5	1376.9	1407.9	1521.9	1692.3	1911.5
15°	1294.5	1318.4	1304.5	1432.1	1636.2	1854.7
17.5°	1319.9	1439.9	1345.3	1354.1	1580.5	1796.2
20°	1380.1	1503.2	1419.8	1302.1	1544.4	1749.0
22.5°	1434.7	1527.6	1452.1	1258.2	1508.5	1706.8
25°	1476.6	1556.0	1472.6	1218.8	1456.5	1635.3
27.5°	1478.7	1489.8	1479.5	1215.6	1392.2	1564.2
30°	1451.4	1403.7	1447.4	1218.8	1346.4	1507.3
32.5°	1373.2	1319.2	1356.5	1212.3	1300.3	1432.5
35°	1261.9	1190.4	1242.0	1178.2	1228.7	1306.2
37.5°	1144.5	1053.9	1125.4	1110.8	1167.8	1136.8
40°	1064.9	906.0	1049.0	1044.1	1134.4	995.4
42.5°	963.1	828.0	948.8	990.5	1097.7	915.8
45°	777.7	761.8	769.7	899.9	1019.6	834.9
47.5°	711.1	700.4	707.2	817.4	931.4	799.6
50°	672.1	658.2	668.1	763.8	875.2	771.9
52.5°	617.9	580.2	613.9	690.7	817.0	726.4
55°	464.6	351.4	462.7	607.4	729.5	650.0
57.5°	272.7	203.1	266.7	528.6	618.1	569.2
60°	184.5	170.6	186.5	465.2	543.9	522.1
62.5°	168.5	164.1	168.9	323.8	477.7	474.9
65°	154.3	152.4	154.3	186.9	394.4	406.3
67.5°	139.7	137.7	141.3	143.4	311.4	336.4
70°	130.0	128.0	130.0	132.0	238.9	292.5
72.5°	118.6	116.6	118.6	120.7	168.0	250.3
75°	101.5	99.5	101.5	103.6	111.5	188.9
77.5°	82.1	82.1	84.1	84.1	78.0	131.2
80°	69.1	69.1	71.1	71.1	67.7	95.5
82.5°	56.0	54.4	58.0	59.7	55.9	67.8
85°	34.5	32.5	36.5	38.6	36.5	32.5
87.5°	16.6	15.0	18.2	20.3	18.9	9.8
90°	18.1	18.1	18.1	12.1	5.9	0.0
92.5°	37.5	42.2	37.5	26.5	20.4	14.5
95°	54.5	66.3	54.5	48.2	89.5	48.2
97.5°	104.6	90.5	104.6	354.6	171.7	85.6
100°	209.5	138.7	209.5	711.6	214.8	114.6
102.5°	552.7	302.7	552.7	962.4	248.5	143.5
105°	1394.3	922.6	1394.3	1091.5	287.2	186.9
107.5°	2029.3	1900.7	2029.3	1042.0	305.8	230.4
110°	2132.3	2291.5	2132.3	1013.1	330.1	259.3



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CATALOG NUMBER: VLT-FA-125U-125D-840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2072.1	2339.7	2072.1	984.1	359.0	288.2
115°	1955.3	2285.5	1955.3	940.7	402.4	331.7
117.5°	1828.9	2168.5	1828.9	929.9	445.9	376.3
120°	1732.7	2086.5	1732.7	910.6	474.9	410.1
122.5°	1650.0	1975.5	1650.0	886.4	503.8	434.2
125°	1550.2	1833.2	1550.2	886.4	541.2	476.4
127.5°	1434.3	1713.8	1434.3	887.7	577.4	511.4
130°	1356.8	1622.1	1356.8	892.5	601.4	530.7
132.5°	1322.0	1540.1	1322.0	892.5	625.5	554.8
135°	1276.7	1465.4	1276.7	892.5	655.8	591.0
137.5°	1226.6	1388.2	1226.6	892.5	690.7	621.1
140°	1197.3	1344.7	1197.3	892.5	710.1	645.2
142.5°	1163.4	1301.3	1163.4	897.3	729.5	669.4
145°	1112.2	1230.2	1112.2	898.5	758.5	699.5
147.5°	1075.5	1166.3	1075.5	905.7	787.6	735.7
150°	1051.0	1127.7	1051.0	910.6	807.0	759.8
152.5°	1031.4	1093.9	1031.4	910.6	826.4	783.9
155°	1008.1	1055.3	1008.1	916.6	849.6	820.1
157.5°	993.4	1027.6	993.4	923.8	877.4	849.1
160°	983.6	1013.1	983.6	928.7	891.9	868.4
162.5°	978.6	998.6	978.6	933.5	906.4	882.8
165°	965.2	982.9	965.2	940.7	922.4	910.6
167.5°	959.1	969.7	959.1	946.8	936.9	926.2
170°	958.9	964.8	958.9	946.8	946.6	940.7
172.5°	954.1	960.0	954.1	951.6	956.2	945.5
175°	952.6	946.8	952.6	958.8	964.7	958.8
177.5°	958.7	954.0	958.7	958.8	963.5	958.8
180°	958.8	958.8	958.8	958.8	958.8	958.8

(END OF REPORT)