

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: P621729

Luminaire Tested: VLT-FA-150U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621729
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-150U-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

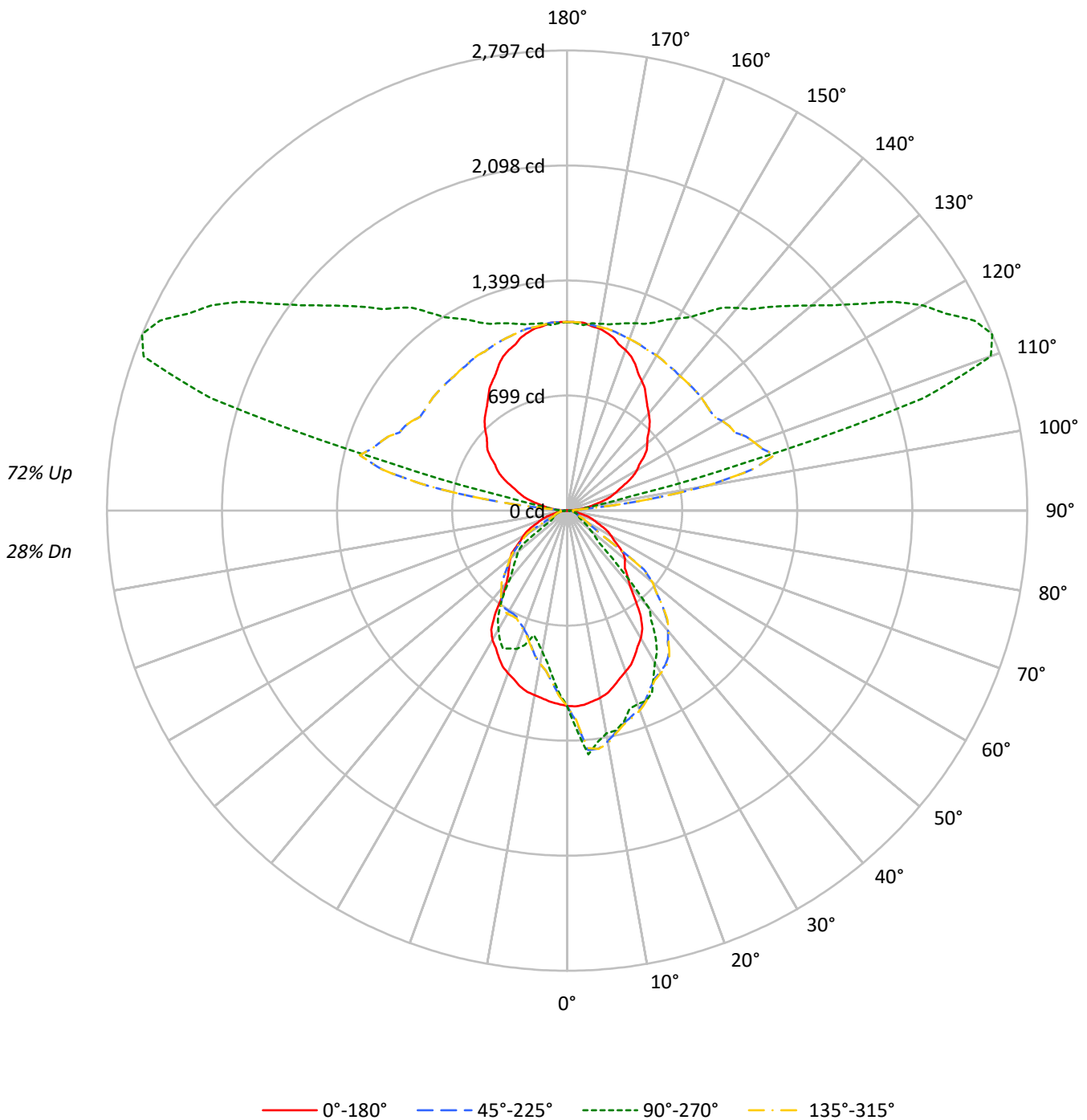
Lumens per Lamp: N/A
Luminaire Lumens: 8607.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.2
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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	26	25	24	19
4	72	62	54	49	64	56	49	45	44	40	36	34	31	28	24	22	21	17
5	66	55	47	42	59	50	43	38	40	35	32	30	27	25	22	20	18	15
6	61	49	42	36	54	45	38	33	36	31	28	28	24	22	20	18	16	13
7	56	44	37	32	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	17	17	15	13	11
9	48	37	30	25	43	33	27	23	27	22	19	21	18	16	15	13	12	10
10	45	34	27	22	40	31	25	21	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8518	8518	8518	8518
5°	8533	10716	8403	7307
10°	8420	10022	8297	6344
15°	8191	9868	8217	5822
20°	7940	9562	8032	6824
25°	7697	9666	7783	7324
30°	7424	8845	7525	6914
35°	6802	8199	6632	6199
40°	5543	7296	5351	5045
45°	5037	2709	5085	4595
50°	5123	2063	5028	4367
55°	4834	1601	4668	2614
60°	4453	1230	4419	1455
65°	4101	1272	4019	1538
70°	3649	1343	3548	1597
75°	3114	1406	2981	1641
80°	2347	1446	2194	1698
85°	1589	1293	1391	1589

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	1.3
10°-20°	313.7	3.6
20°-30°	469.4	5.5
30°-40°	533.8	6.2
40°-50°	456.5	5.3
50°-60°	307.9	3.6
60°-70°	158.9	1.8
70°-80°	71.7	0.8
80°-90°	23.9	0.3
90°-100°	140.9	1.6
100°-110°	1004.3	11.7
110°-120°	1363.4	15.8
120°-130°	1109.7	12.9
130°-140°	892.5	10.4
140°-150°	703.6	8.2
150°-160°	514.5	6.0
160°-170°	319.6	3.7
170°-180°	109.0	1.3
0°-30°	897.6	10.4
0°-40°	1431.3	16.6
0°-60°	2195.7	25.5
0°-90°	2450.3	28.5
90°-120°	2508.7	29.1
90°-150°	5214.5	60.6
90°-180°	6158.0	71.5
0°-180°	8607.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1488	1166	1014	1185	112
15°	1102	1328	1106	784	1102	310
25°	972	1221	983	925	972	447
35°	776	936	757	708	776	475
45°	496	267	501	453	496	394
55°	386	128	373	209	386	344
65°	242	75	237	91	242	239
75°	112	51	108	59	112	120
85°	19	16	17	19	19	25
90°	0	22	0	22	0	3
95°	58	79	58	79	58	65
105°	224	1103	224	1103	224	236
115°	396	2732	396	2732	396	394
125°	570	2192	570	2192	570	506
135°	706	1752	706	1752	706	544
145°	836	1471	836	1471	836	525
155°	980	1262	980	1262	980	450
165°	1089	1175	1089	1175	1089	306
175°	1146	1132	1146	1132	1146	108
180°	1146	1146	1146	1146	1146	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1190.9	1231.5	1282.7	1317.8	1332.9	1317.8	1274.0	1231.2	1177.4	1161.3	1123.3
5°	1184.6	1309.8	1461.1	1479.4	1487.7	1479.4	1447.9	1302.3	1166.5	1108.6	1045.7
7.5°	1170.1	1389.0	1459.5	1418.6	1418.9	1426.4	1461.6	1382.2	1151.3	1060.4	983.2
10°	1155.6	1433.1	1423.7	1364.8	1375.4	1370.7	1434.6	1424.5	1138.7	1033.6	945.5
12.5°	1136.3	1446.8	1376.4	1357.1	1368.6	1362.0	1383.4	1439.3	1128.1	1014.5	902.0
15°	1102.5	1427.2	1336.8	1328.3	1328.3	1334.2	1342.8	1433.2	1106.1	979.8	848.9
17.5°	1067.7	1387.9	1309.2	1267.4	1262.9	1270.7	1319.1	1398.0	1075.0	941.3	797.5
20°	1039.7	1360.9	1281.2	1232.2	1252.2	1234.5	1292.1	1368.2	1051.8	917.2	765.6
22.5°	1014.6	1327.2	1245.5	1224.6	1251.3	1225.1	1255.4	1334.6	1024.7	890.1	741.4
25°	972.1	1270.8	1191.9	1211.4	1220.8	1211.4	1196.7	1275.8	983.0	855.4	716.1
27.5°	929.8	1211.3	1151.8	1164.9	1136.1	1158.3	1158.3	1211.5	940.0	815.0	708.4
30°	896.0	1169.9	1131.5	1112.4	1067.5	1102.9	1139.9	1170.2	908.1	788.8	706.4
32.5°	851.6	1132.1	1111.2	1045.1	1016.3	1040.4	1120.6	1131.3	858.8	765.1	704.5
35°	776.5	1078.7	1074.7	965.4	935.9	958.3	1083.2	1075.9	757.1	727.6	689.5
37.5°	675.8	1031.1	1004.9	884.8	837.8	878.9	1012.9	1026.0	636.9	693.3	654.5
40°	591.7	999.1	952.8	824.9	778.9	819.0	958.8	996.2	571.2	669.2	615.9
42.5°	544.4	970.6	897.7	761.5	476.5	751.8	903.7	967.0	530.6	638.0	582.0
45°	496.3	919.0	817.5	421.5	266.9	401.5	818.7	906.1	501.1	590.9	530.1
47.5°	475.3	855.5	733.7	253.9	225.3	246.6	733.0	841.6	475.5	543.5	480.6
50°	458.9	815.5	673.8	223.7	184.8	215.5	675.0	802.3	450.4	511.8	446.8
52.5°	431.8	767.6	587.8	185.4	159.6	180.9	573.6	752.6	424.3	477.2	404.3
55°	386.4	675.7	245.1	145.7	128.0	139.8	233.1	653.0	373.1	422.7	355.0
57.5°	338.4	575.2	172.0	113.4	99.3	112.2	170.7	552.2	332.1	358.1	309.6
60°	310.3	507.5	140.1	95.2	85.7	94.0	138.9	487.4	307.9	315.0	268.1
62.5°	282.3	438.9	115.9	83.7	80.9	82.6	115.7	416.8	278.0	278.5	188.9
65°	241.5	332.4	85.7	76.0	74.9	74.9	83.3	320.5	236.7	229.6	108.7
67.5°	200.0	238.7	68.8	70.0	68.8	68.8	67.6	232.0	195.1	183.1	82.1
70°	173.9	183.3	64.0	65.2	64.0	64.0	62.8	178.5	169.1	141.9	77.3
72.5°	148.8	125.2	59.2	59.4	59.2	59.2	58.0	117.5	143.9	99.8	70.5
75°	112.3	62.7	50.7	50.7	50.7	50.7	49.5	60.2	107.5	65.0	60.4
77.5°	78.0	41.4	42.0	41.8	41.8	40.8	40.8	41.1	73.4	44.8	48.8
80°	56.8	34.3	36.2	35.0	35.0	35.0	35.0	33.1	53.1	37.8	41.1
82.5°	40.3	27.3	29.5	28.3	28.3	28.3	28.3	27.0	36.7	30.8	33.3
85°	19.3	18.1	19.3	16.9	15.7	16.9	18.1	18.1	16.9	20.4	21.7
87.5°	5.8	10.0	10.6	10.1	10.1	10.1	9.6	9.1	4.8	11.0	11.6
90°	0.0	7.0	14.4	21.6	21.6	21.6	14.4	7.0	0.0	7.0	14.4
92.5°	17.3	24.4	31.7	44.8	50.5	44.8	31.7	24.4	17.3	24.4	31.7
95°	57.7	107.0	57.7	65.2	79.3	65.2	57.7	107.0	57.7	107.0	57.7
97.5°	102.4	205.3	423.9	125.1	108.1	125.1	423.9	205.3	102.4	205.3	423.9
100°	137.0	256.8	850.7	250.4	165.8	250.4	850.7	256.8	137.0	256.8	850.7
102.5°	171.6	297.1	1150.6	660.8	361.9	660.8	1150.6	297.1	171.6	297.1	1150.6
105°	223.5	343.3	1304.9	1667.0	1103.0	1667.0	1304.9	343.3	223.5	343.3	1304.9
107.5°	275.4	365.6	1245.8	2426.1	2272.4	2426.1	1245.8	365.6	275.4	365.6	1245.8
110°	310.0	394.6	1211.2	2549.2	2739.5	2549.2	1211.2	394.6	310.0	394.6	1211.2



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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°	344.6	429.2	1176.6	2477.2	2797.2	2477.2	1176.6	429.2	344.6	429.2	1176.6
115°	396.5	481.1	1124.7	2337.6	2732.3	2337.6	1124.7	481.1	396.5	481.1	1124.7
117.5°	449.9	533.0	1111.7	2186.4	2592.5	2186.4	1111.7	533.0	449.9	533.0	1111.7
120°	490.2	567.8	1088.6	2071.5	2494.4	2071.5	1088.6	567.8	490.2	567.8	1088.6
122.5°	519.1	602.3	1059.8	1972.7	2361.8	1972.7	1059.8	602.3	519.1	602.3	1059.8
125°	569.5	647.1	1059.8	1853.3	2191.6	1853.3	1059.8	647.1	569.5	647.1	1059.8
127.5°	611.4	690.3	1061.2	1714.8	2048.9	1714.8	1061.2	690.3	611.4	690.3	1061.2
130°	634.4	719.0	1067.0	1622.1	1939.3	1622.1	1067.0	719.0	634.4	719.0	1067.0
132.5°	663.3	747.8	1067.0	1580.4	1841.3	1580.4	1067.0	747.8	663.3	747.8	1067.0
135°	706.5	784.1	1067.0	1526.3	1751.9	1526.3	1067.0	784.1	706.5	784.1	1067.0
137.5°	742.6	825.7	1067.0	1466.4	1659.6	1466.4	1067.0	825.7	742.6	825.7	1067.0
140°	771.4	848.9	1067.0	1431.5	1607.7	1431.5	1067.0	848.9	771.4	848.9	1067.0
142.5°	800.2	872.1	1072.7	1390.8	1555.8	1390.8	1072.7	872.1	800.2	872.1	1072.7
145°	836.3	906.8	1074.2	1329.7	1470.7	1329.7	1074.2	906.8	836.3	906.8	1074.2
147.5°	879.5	941.6	1082.8	1285.7	1394.3	1285.7	1082.8	941.6	879.5	941.6	1082.8
150°	908.4	964.8	1088.6	1256.5	1348.1	1256.5	1088.6	964.8	908.4	964.8	1088.6
152.5°	937.2	988.0	1088.6	1233.1	1307.8	1233.1	1088.6	988.0	937.2	988.0	1088.6
155°	980.5	1015.7	1095.8	1205.2	1261.6	1205.2	1095.8	1015.7	980.5	1015.7	1095.8
157.5°	1015.1	1048.9	1104.5	1187.6	1228.5	1187.6	1104.5	1048.9	1015.1	1048.9	1104.5
160°	1038.1	1066.3	1110.2	1175.9	1211.2	1175.9	1110.2	1066.3	1038.1	1066.3	1110.2
162.5°	1055.4	1083.6	1116.0	1169.9	1193.9	1169.9	1116.0	1083.6	1055.4	1083.6	1116.0
165°	1088.6	1102.7	1124.7	1154.0	1175.1	1154.0	1124.7	1102.7	1088.6	1102.7	1124.7
167.5°	1107.4	1120.0	1131.9	1146.6	1159.3	1146.6	1131.9	1120.0	1107.4	1120.0	1131.9
170°	1124.7	1131.7	1131.9	1146.4	1153.5	1146.4	1131.9	1131.7	1124.7	1131.7	1131.9
172.5°	1130.4	1143.1	1137.6	1140.7	1147.7	1140.7	1137.6	1143.1	1130.4	1143.1	1137.6
175°	1146.3	1153.3	1146.3	1138.9	1131.9	1138.9	1146.3	1153.3	1146.3	1153.3	1146.3
177.5°	1146.3	1151.9	1146.3	1146.2	1140.5	1146.2	1146.3	1151.9	1146.3	1151.9	1146.3
180°	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1187.0	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1109.7	1108.8	1110.7	1127.1	1160.7	1190.9
5°	1010.8	1014.4	1017.9	1045.7	1104.3	1184.6
7.5°	934.8	929.6	937.6	983.0	1054.9	1170.1
10°	882.5	870.7	882.5	944.3	1028.1	1155.6
12.5°	833.1	818.5	836.9	904.7	1006.0	1136.3
15°	769.5	783.7	775.4	851.3	972.6	1102.5
17.5°	784.6	855.9	799.7	805.0	939.5	1067.7
20°	820.4	893.6	844.0	774.0	918.1	1039.7
22.5°	852.8	908.1	863.2	748.0	896.8	1014.6
25°	877.8	925.0	875.4	724.5	865.8	972.1
27.5°	879.0	885.6	879.5	722.6	827.6	929.8
30°	862.8	834.4	860.4	724.5	800.4	896.0
32.5°	816.3	784.2	806.4	720.7	772.9	851.6
35°	750.1	707.6	738.3	700.4	730.4	776.5
37.5°	680.3	626.5	669.0	660.3	694.2	675.8
40°	633.0	538.6	623.6	620.7	674.4	591.7
42.5°	572.5	492.2	564.0	588.8	652.5	544.4
45°	462.3	452.8	457.6	534.9	606.1	496.3
47.5°	422.7	416.4	420.4	485.9	553.7	475.3
50°	399.5	391.2	397.2	454.0	520.3	458.9
52.5°	367.3	344.9	365.0	410.6	485.7	431.8
55°	276.2	208.9	275.0	361.1	433.6	386.4
57.5°	162.1	120.8	158.5	314.2	367.4	338.4
60°	109.7	101.4	110.9	276.5	323.3	310.3
62.5°	100.2	97.6	100.4	192.5	284.0	282.3
65°	91.7	90.6	91.7	111.1	234.4	241.5
67.5°	83.1	81.9	84.0	85.3	185.1	200.0
70°	77.3	76.1	77.3	78.5	142.0	173.9
72.5°	70.5	69.3	70.5	71.7	99.9	148.8
75°	60.4	59.2	60.4	61.6	66.3	112.3
77.5°	48.8	48.8	50.0	50.0	46.4	78.0
80°	41.1	41.1	42.2	42.3	40.2	56.8
82.5°	33.3	32.4	34.5	35.5	33.2	40.3
85°	20.5	19.3	21.7	22.9	21.7	19.3
87.5°	12.0	11.1	13.0	13.5	11.9	5.8
90°	21.6	21.6	21.6	14.4	7.0	0.0
92.5°	44.8	50.5	44.8	31.7	24.4	17.3
95°	65.2	79.3	65.2	57.7	107.0	57.7
97.5°	125.1	108.1	125.1	423.9	205.3	102.4
100°	250.4	165.8	250.4	850.7	256.8	137.0
102.5°	660.8	361.9	660.8	1150.6	297.1	171.6
105°	1667.0	1103.0	1667.0	1304.9	343.3	223.5
107.5°	2426.1	2272.4	2426.1	1245.8	365.6	275.4
110°	2549.2	2739.5	2549.2	1211.2	394.6	310.0



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CATALOG NUMBER: VLT-FA-150U-075D-840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2477.2	2797.2	2477.2	1176.6	429.2	344.6
115°	2337.6	2732.3	2337.6	1124.7	481.1	396.5
117.5°	2186.4	2592.5	2186.4	1111.7	533.0	449.9
120°	2071.5	2494.4	2071.5	1088.6	567.8	490.2
122.5°	1972.7	2361.8	1972.7	1059.8	602.3	519.1
125°	1853.3	2191.6	1853.3	1059.8	647.1	569.5
127.5°	1714.8	2048.9	1714.8	1061.2	690.3	611.4
130°	1622.1	1939.3	1622.1	1067.0	719.0	634.4
132.5°	1580.4	1841.3	1580.4	1067.0	747.8	663.3
135°	1526.3	1751.9	1526.3	1067.0	784.1	706.5
137.5°	1466.4	1659.6	1466.4	1067.0	825.7	742.6
140°	1431.5	1607.7	1431.5	1067.0	848.9	771.4
142.5°	1390.8	1555.8	1390.8	1072.7	872.1	800.2
145°	1329.7	1470.7	1329.7	1074.2	906.8	836.3
147.5°	1285.7	1394.3	1285.7	1082.8	941.6	879.5
150°	1256.5	1348.1	1256.5	1088.6	964.8	908.4
152.5°	1233.1	1307.8	1233.1	1088.6	988.0	937.2
155°	1205.2	1261.6	1205.2	1095.8	1015.7	980.5
157.5°	1187.6	1228.5	1187.6	1104.5	1048.9	1015.1
160°	1175.9	1211.2	1175.9	1110.2	1066.3	1038.1
162.5°	1169.9	1193.9	1169.9	1116.0	1083.6	1055.4
165°	1154.0	1175.1	1154.0	1124.7	1102.7	1088.6
167.5°	1146.6	1159.3	1146.6	1131.9	1120.0	1107.4
170°	1146.4	1153.5	1146.4	1131.9	1131.7	1124.7
172.5°	1140.7	1147.7	1140.7	1137.6	1143.1	1130.4
175°	1138.9	1131.9	1138.9	1146.3	1153.3	1146.3
177.5°	1146.2	1140.5	1146.2	1146.3	1151.9	1146.3
180°	1146.3	1146.3	1146.3	1146.3	1146.3	1146.3

(END OF REPORT)