

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: P621904

Luminaire Tested: VLT-FB-150U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621904  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-150U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

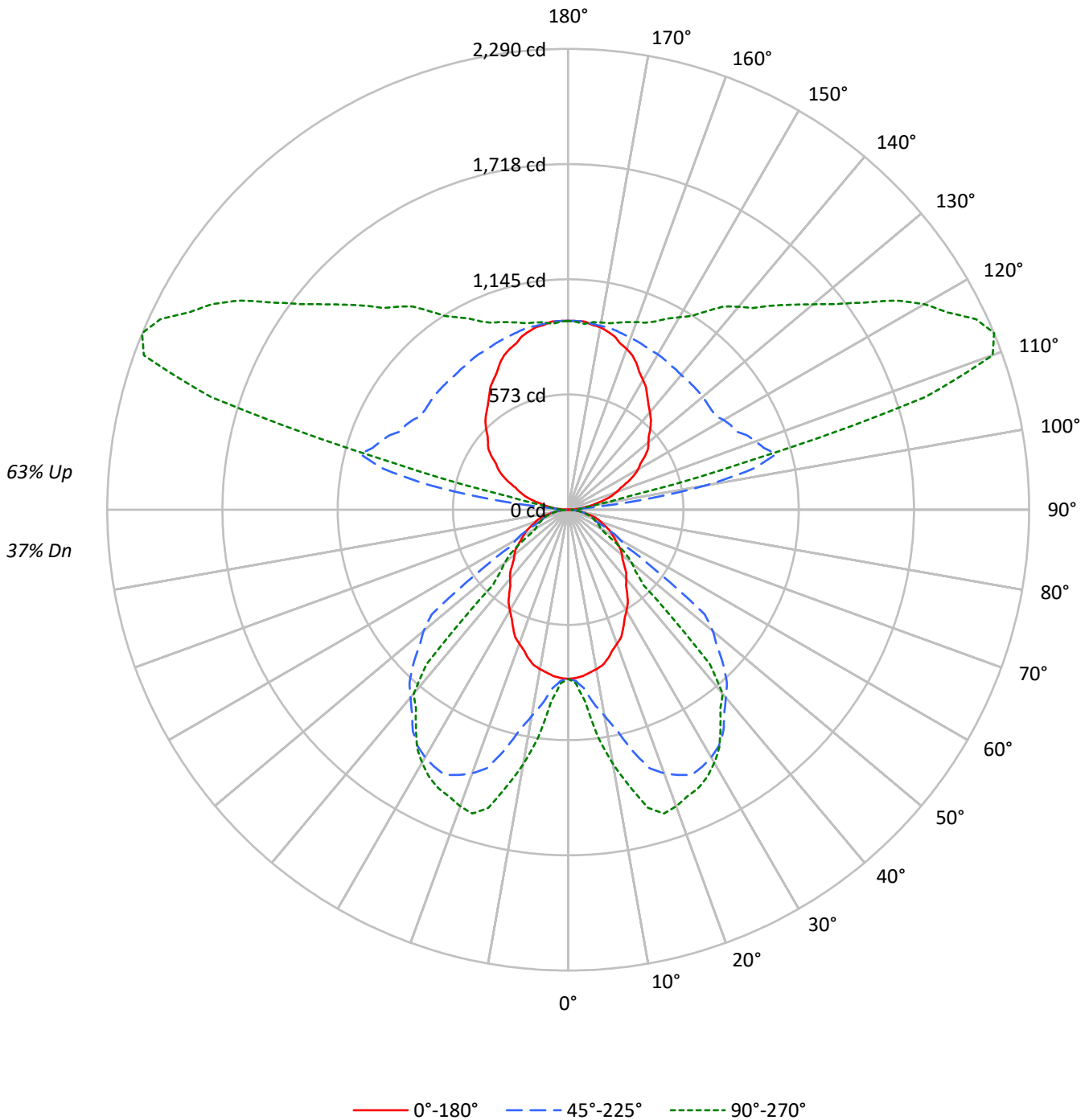
Lumens per Lamp: N/A  
Luminaire Lumens: 8055.2 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 77.8  
Input Voltage (V): 120  
Input Current (Ain): 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: P621904  
CATALOG NUMBER: VLT-FB-150U-100D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P621904

CATALOG NUMBER: VLT-FB-150U-100D-930-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	51	40	39	38	32
2	87	80	75	70	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	50	66	58	51	46	47	43	39	38	34	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	34	34	30	28	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17	15
8	53	41	34	29	48	38	31	27	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	35	28	24	29	24	20	23	20	17	18	16	14	12
10	46	34	27	23	42	32	25	21	26	22	18	22	18	15	17	14	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6031	6031	6031
5°	5980	6410	6866
10°	5862	7580	9359
15°	5685	9237	11395
20°	5413	10644	11974
25°	5125	11508	12090
30°	4798	11775	12030
35°	4474	11775	11551
40°	4208	11408	11184
45°	4005	11059	5356
50°	3889	10468	4614
55°	3782	7009	3654
60°	3677	4265	2648
65°	3596	3248	2756
70°	3548	2830	2830
75°	3457	2936	2842
80°	3033	2963	2822
85°	2248	3096	2676

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11059 cd/sqm



TEST NUMBER: P621904

CATALOG NUMBER: VLT-FB-150U-100D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.1
10°-20°	334.1	4.1
20°-30°	565.9	7.0
30°-40°	686.5	8.5
40°-50°	604.3	7.5
50°-60°	373.9	4.6
60°-70°	202.7	2.5
70°-80°	115.5	1.4
80°-90°	39.9	0.5
90°-100°	115.4	1.4
100°-110°	822.3	10.2
110°-120°	1116.3	13.9
120°-130°	908.6	11.3
130°-140°	730.8	9.1
140°-150°	576.1	7.2
150°-160°	421.3	5.2
160°-170°	261.7	3.2
170°-180°	89.2	1.1
0°-30°	990.7	12.3
0°-40°	1677.2	20.8
0°-60°	2655.5	33.0
0°-90°	3013.6	37.4
90°-120°	2054.0	25.5
90°-150°	4269.5	53.0
90°-180°	5042.0	62.6
0°-180°	8055.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	830	857	890	928	953	78
15°	765	882	1243	1470	1534	214
25°	647	886	1454	1497	1527	297
35°	511	821	1344	1325	1319	320
45°	395	675	1090	924	528	306
55°	302	471	560	324	292	271
65°	212	265	191	164	162	210
75°	125	110	106	104	102	130
85°	27	37	38	34	32	33
90°	0	6	12	18	18	3
95°	47	88	47	53	65	53
105°	183	281	1068	1365	903	193
115°	325	394	921	1914	2237	322
125°	466	530	868	1517	1794	414
135°	578	642	874	1250	1434	445
145°	685	742	880	1089	1204	430
155°	803	832	897	987	1033	369
165°	891	903	921	945	962	250
175°	939	944	939	932	927	89
180°	939	939	939	939	939	



TEST NUMBER: P621904

CATALOG NUMBER: VLT-FB-150U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.4	840.4	840.4	840.4	840.4
2.5°	837.6	847.0	851.3	859.6	863.6
5°	830.1	856.8	889.9	928.0	953.1
7.5°	816.8	864.5	969.1	1089.5	1141.0
10°	804.5	869.6	1040.2	1214.3	1284.4
12.5°	790.8	874.7	1123.5	1334.6	1406.1
15°	765.2	882.1	1243.4	1470.4	1533.8
17.5°	732.1	886.7	1347.3	1542.3	1583.0
20°	708.8	887.5	1393.8	1551.3	1568.0
22.5°	687.0	888.4	1426.6	1529.4	1543.4
25°	647.3	886.2	1453.5	1496.9	1527.0
27.5°	607.7	876.3	1440.2	1475.2	1496.9
30°	579.0	866.3	1421.1	1450.2	1451.8
32.5°	551.7	849.6	1392.4	1400.9	1398.5
35°	510.7	821.3	1344.2	1325.3	1318.6
37.5°	472.4	783.7	1273.9	1243.4	1241.7
40°	449.2	756.5	1217.8	1188.9	1193.9
42.5°	427.4	725.3	1167.3	1133.4	1039.5
45°	394.6	675.1	1089.7	923.6	527.8
47.5°	366.2	618.1	1001.9	494.8	454.3
50°	348.4	578.9	937.7	435.1	413.3
52.5°	330.7	542.4	854.4	391.2	362.8
55°	302.3	471.0	560.2	323.8	292.1
57.5°	275.3	395.9	342.3	251.7	217.3
60°	256.2	351.4	297.2	202.8	184.5
62.5°	238.4	314.9	253.5	179.9	176.3
65°	211.8	265.2	191.3	163.9	162.3
67.5°	186.9	217.9	145.9	147.5	145.9
70°	169.1	184.1	134.9	136.6	134.9
72.5°	152.7	151.7	124.0	122.9	121.3
75°	124.7	109.7	105.9	104.2	102.5
77.5°	95.3	80.9	85.4	83.7	82.0
80°	73.4	68.4	71.7	70.0	68.3
82.5°	54.3	56.0	58.1	55.0	53.3
85°	27.3	37.3	37.6	34.1	32.5
87.5°	8.2	17.4	17.4	15.8	14.5
90°	0.0	5.8	11.8	17.7	17.7
92.5°	14.2	19.9	26.0	36.7	41.3
95°	47.2	87.6	47.2	53.4	64.9
97.5°	83.8	168.1	347.1	102.4	88.5
100°	112.2	210.3	696.5	205.0	135.8
102.5°	140.5	243.2	942.1	541.0	296.3
105°	183.0	281.1	1068.4	1364.9	903.1
107.5°	225.5	299.4	1020.0	1986.4	1860.6
110°	253.8	323.1	991.7	2087.3	2243.1



TEST NUMBER: P621904

CATALOG NUMBER: VLT-FB-150U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	282.2	351.4	963.3	2028.3	2290.3
115°	324.7	393.9	920.8	1914.0	2237.2
117.5°	368.3	436.4	910.2	1790.2	2122.7
120°	401.4	464.9	891.3	1696.1	2042.4
122.5°	425.0	493.1	867.7	1615.2	1933.8
125°	466.3	529.8	867.7	1517.4	1794.5
127.5°	500.6	565.2	868.9	1404.0	1677.6
130°	519.5	588.7	873.6	1328.1	1587.9
132.5°	543.1	612.3	873.6	1294.0	1507.6
135°	578.5	642.0	873.6	1249.7	1434.4
137.5°	608.0	676.1	873.6	1200.7	1358.8
140°	631.6	695.1	873.6	1172.0	1316.3
142.5°	655.2	714.1	878.3	1138.8	1273.8
145°	684.7	742.4	879.5	1088.8	1204.2
147.5°	720.1	770.9	886.6	1052.7	1141.6
150°	743.8	789.9	891.3	1028.8	1103.8
152.5°	767.4	808.9	891.3	1009.6	1070.8
155°	802.8	831.6	897.2	986.8	1033.0
157.5°	831.1	858.8	904.3	972.4	1005.8
160°	850.0	873.1	909.0	962.8	991.7
162.5°	864.2	887.3	913.8	957.9	977.5
165°	891.3	902.9	920.8	944.9	962.2
167.5°	906.7	917.1	926.7	938.8	949.2
170°	920.8	926.6	926.7	938.7	944.5
172.5°	925.6	936.0	931.5	934.0	939.7
175°	938.6	944.3	938.6	932.5	926.7
177.5°	938.6	943.2	938.6	938.5	933.8
180°	938.6	938.6	938.6	938.6	938.6

(END OF REPORT)