

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: P621766

Luminaire Tested: VLT-FB-025U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621766  
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-025U-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

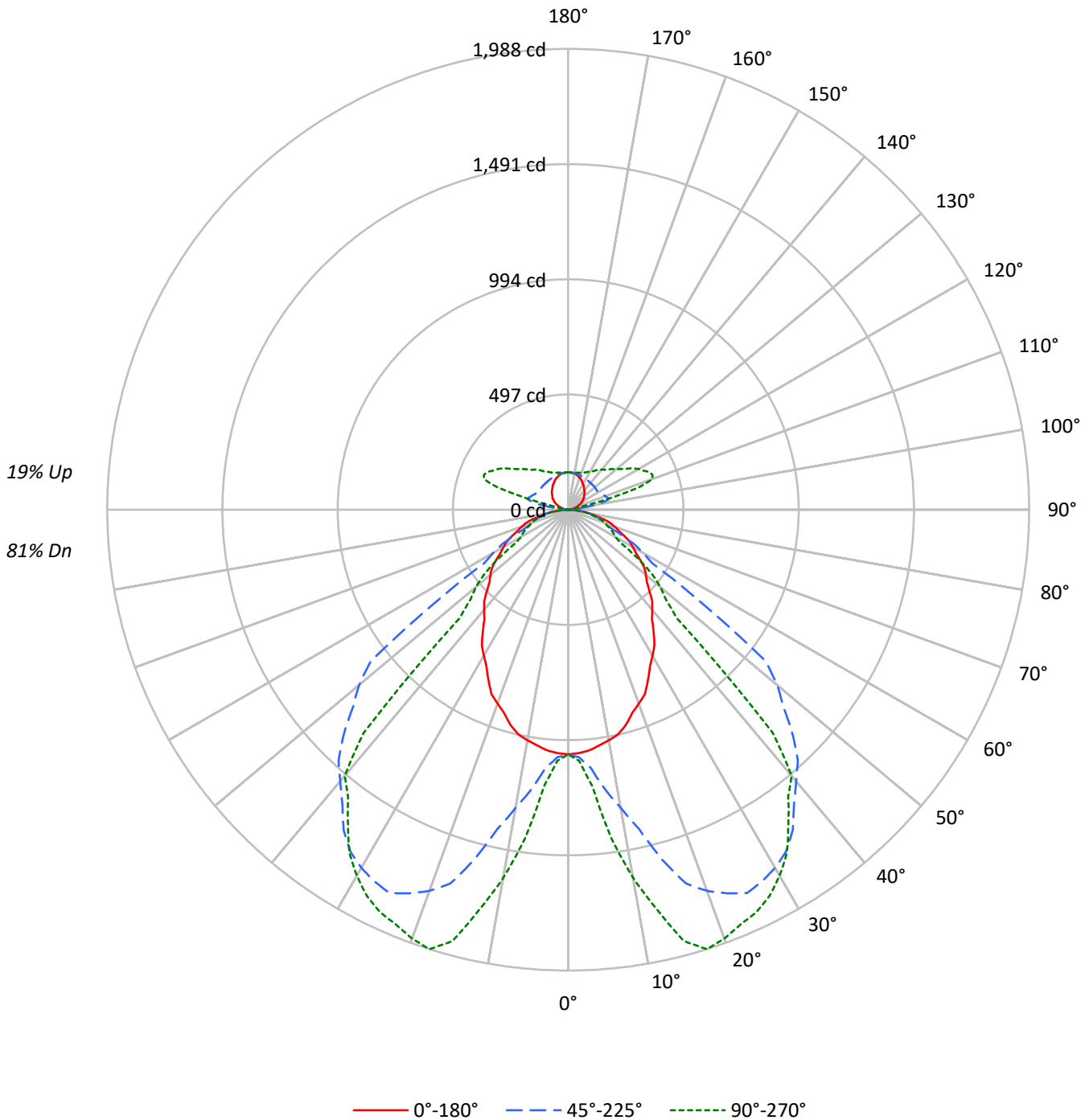
Lumens per Lamp: N/A  
Luminaire Lumens: 4647.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 47  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P621766  
CATALOG NUMBER: VLT-FB-025U-125D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P621766  
 CATALOG NUMBER: VLT-FB-025U-125D-930-UNV-STD-W-4

**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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	81				
1	106	102	98	95	101	98	94	91	90	87	85	83	81	79	77	75	74	71				
2	97	90	84	79	93	87	81	77	80	76	72	74	71	68	69	66	64	61				
3	89	80	73	67	85	77	71	65	72	66	62	66	62	59	62	58	55	53				
4	82	72	64	58	79	69	62	56	64	58	54	60	55	51	56	52	48	46				
5	76	64	56	50	73	62	55	49	58	52	47	54	49	45	51	46	43	40				
6	70	58	50	44	67	56	49	43	53	46	41	49	44	40	46	41	38	36				
7	65	53	45	39	62	51	44	38	48	41	37	45	39	35	42	37	34	32				
8	61	48	40	35	58	47	39	34	44	37	33	41	36	32	39	34	30	28				
9	57	44	36	31	54	43	36	31	40	34	30	38	32	28	36	31	27	26				
10	53	41	33	28	51	39	32	28	37	31	27	35	30	26	33	28	25	23				

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

	0°	45°	90°
0°	7571	7571	7571
5°	7507	8048	8620
10°	7360	9516	11750
15°	7137	11598	14306
20°	6796	13363	15033
25°	6435	14449	15179
30°	6024	14784	15104
35°	5617	14785	14503
40°	5283	14323	14042
45°	5027	13885	6724
50°	4884	13143	5794
55°	4749	8800	4588
60°	4617	5355	3324
65°	4515	4079	3459
70°	4454	3554	3554
75°	4339	3688	3568
80°	3810	3723	3546
85°	2824	3886	3351

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13885 cd/sqm



TEST NUMBER: P621766

CATALOG NUMBER: VLT-FB-025U-125D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	2.4
10°-20°	419.5	9.0
20°-30°	710.5	15.3
30°-40°	862.0	18.5
40°-50°	758.7	16.3
50°-60°	469.5	10.1
60°-70°	254.5	5.5
70°-80°	145.0	3.1
80°-90°	47.8	1.0
90°-100°	19.8	0.4
100°-110°	141.3	3.0
110°-120°	191.9	4.1
120°-130°	156.1	3.4
130°-140°	125.6	2.7
140°-150°	99.0	2.1
150°-160°	72.4	1.6
160°-170°	45.0	1.0
170°-180°	15.3	0.3
0°-30°	1243.8	26.8
0°-40°	2105.8	45.3
0°-60°	3334.0	71.7
0°-90°	3781.3	81.4
90°-120°	353.0	7.6
90°-150°	733.8	15.8
90°-180°	866.0	18.6
0°-180°	4647.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1042	1076	1117	1165	1197	98
15°	961	1108	1561	1846	1926	269
25°	813	1113	1825	1879	1917	373
35°	641	1031	1688	1664	1656	402
45°	495	848	1368	1160	663	384
55°	380	591	703	406	367	340
65°	266	333	240	206	204	264
75°	156	138	133	131	129	164
85°	34	47	47	43	41	42
90°	0	1	2	3	3	2
95°	8	15	8	9	11	9
105°	31	48	184	235	155	33
115°	56	68	158	329	384	55
125°	80	91	149	261	308	71
135°	99	110	150	215	246	76
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	153	155	158	162	165	43
175°	161	162	161	160	159	15
180°	161	161	161	161	161	

TEST NUMBER: P621766

CATALOG NUMBER: VLT-FB-025U-125D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1051.6	1063.4	1068.8	1079.2	1084.2
5°	1042.2	1075.7	1117.3	1165.1	1196.6
7.5°	1025.5	1085.4	1216.8	1367.9	1432.5
10°	1010.0	1091.8	1306.0	1524.6	1612.6
12.5°	992.9	1098.1	1410.6	1675.6	1765.3
15°	960.7	1107.5	1561.2	1846.0	1925.7
17.5°	919.1	1113.3	1691.5	1936.3	1987.5
20°	889.9	1114.3	1749.9	1947.6	1968.6
22.5°	862.5	1115.4	1791.0	1920.1	1937.7
25°	812.7	1112.6	1824.9	1879.4	1917.1
27.5°	763.0	1100.2	1808.2	1852.1	1879.4
30°	727.0	1087.6	1784.2	1820.7	1822.8
32.5°	692.7	1066.7	1748.2	1758.8	1755.9
35°	641.2	1031.2	1687.7	1663.9	1655.5
37.5°	593.2	984.0	1599.3	1561.1	1559.0
40°	564.0	949.8	1529.0	1492.7	1499.0
42.5°	536.5	910.6	1465.5	1422.9	1305.1
45°	495.4	847.6	1368.2	1159.6	662.6
47.5°	459.8	776.0	1257.9	621.2	570.4
50°	437.5	726.8	1177.3	546.2	519.0
52.5°	415.2	681.0	1072.7	491.1	455.5
55°	379.6	591.3	703.4	406.5	366.7
57.5°	345.7	497.1	429.7	316.0	272.8
60°	321.7	441.2	373.1	254.7	231.6
62.5°	299.4	395.4	318.2	225.9	221.3
65°	265.9	333.0	240.2	205.8	203.7
67.5°	234.6	273.6	183.1	185.2	183.1
70°	212.3	231.2	169.4	171.5	169.4
72.5°	191.7	190.5	155.7	154.4	152.3
75°	156.5	137.7	133.0	130.8	128.7
77.5°	119.7	101.6	107.2	105.0	102.9
80°	92.2	85.9	90.1	87.9	85.8
82.5°	68.2	70.3	72.9	69.0	66.9
85°	34.3	46.9	47.2	42.8	40.7
87.5°	10.3	20.6	19.3	16.0	14.3
90°	0.0	1.0	2.0	3.0	3.0
92.5°	2.4	3.4	4.5	6.3	7.1
95°	8.1	15.1	8.1	9.2	11.2
97.5°	14.4	28.9	59.7	17.6	15.2
100°	19.3	36.1	119.7	35.2	23.3
102.5°	24.1	41.8	161.9	93.0	50.9
105°	31.4	48.3	183.6	234.6	155.2
107.5°	38.8	51.5	175.3	341.4	319.8
110°	43.6	55.5	170.4	358.7	385.5



TEST NUMBER: P621766

CATALOG NUMBER: VLT-FB-025U-125D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	48.5	60.4	165.6	348.6	393.6
115°	55.8	67.7	158.3	328.9	384.5
117.5°	63.3	75.0	156.4	307.7	364.8
120°	69.0	79.9	153.2	291.5	351.0
122.5°	73.0	84.7	149.1	277.6	332.3
125°	80.1	91.1	149.1	260.8	308.4
127.5°	86.0	97.1	149.3	241.3	288.3
130°	89.3	101.2	150.1	228.3	272.9
132.5°	93.3	105.2	150.1	222.4	259.1
135°	99.4	110.3	150.1	214.8	246.5
137.5°	104.5	116.2	150.1	206.4	233.5
140°	108.6	119.5	150.1	201.4	226.2
142.5°	112.6	122.7	151.0	195.7	218.9
145°	117.7	127.6	151.2	187.1	207.0
147.5°	123.8	132.5	152.4	180.9	196.2
150°	127.8	135.8	153.2	176.8	189.7
152.5°	131.9	139.0	153.2	173.5	184.0
155°	138.0	142.9	154.2	169.6	177.5
157.5°	142.8	147.6	155.4	167.1	172.9
160°	146.1	150.1	156.2	165.5	170.4
162.5°	148.5	152.5	157.0	164.6	168.0
165°	153.2	155.2	158.3	162.4	165.4
167.5°	155.8	157.6	159.3	161.3	163.1
170°	158.3	159.3	159.3	161.3	162.3
172.5°	159.1	160.9	160.1	160.5	161.5
175°	161.3	162.3	161.3	160.3	159.3
177.5°	161.3	162.1	161.3	161.3	160.5
180°	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)