

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: P621760

Luminaire Tested: VLT-FB-025U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621760  
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-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

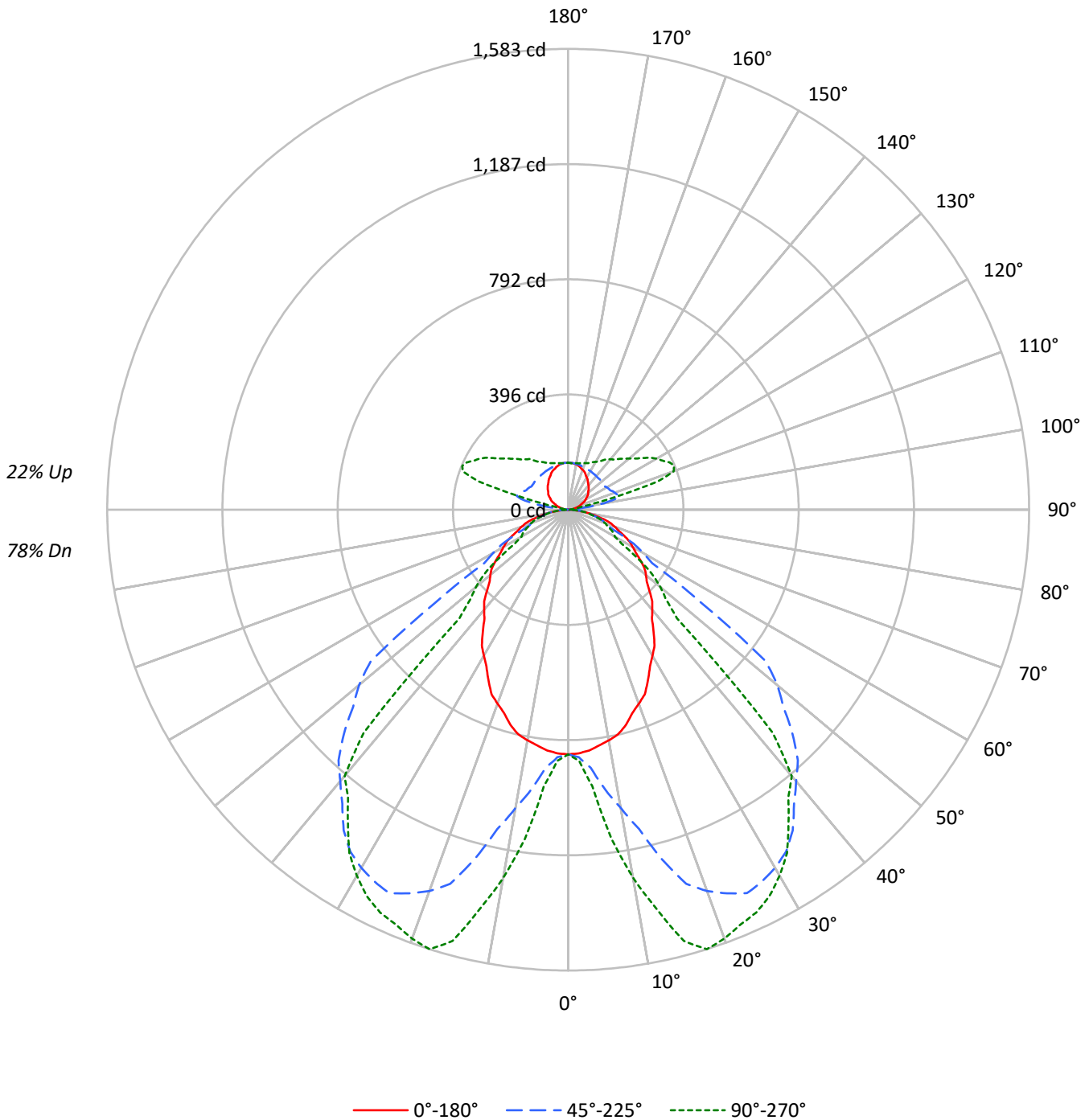
Lumens per Lamp: N/A  
Luminaire Lumens: 3878.3 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 37.5  
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



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### Luminous Intensity Polar Plot





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**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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	82	82	82	78
1	105	101	97	94	100	96	93	90	88	86	83	81	79	77	74	72	71	67
2	96	89	83	78	92	85	80	76	78	74	71	72	69	66	66	63	61	58
3	89	79	72	66	84	76	70	64	70	65	60	64	60	57	59	56	53	50
4	81	71	63	57	78	68	61	55	63	57	52	58	53	49	53	50	46	44
5	75	64	55	50	72	61	54	48	57	50	46	52	47	43	48	44	41	38
6	70	57	49	43	66	55	48	42	51	45	40	48	42	38	44	40	36	34
7	64	52	44	38	61	50	43	38	47	40	36	43	38	34	40	36	32	30
8	60	47	40	34	57	46	39	34	43	36	32	40	34	31	37	33	29	27
9	56	44	36	31	53	42	35	30	39	33	29	37	31	28	34	30	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	29	25	32	27	24	22

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	2.3
10°-20°	334.1	8.6
20°-30°	565.9	14.6
30°-40°	686.5	17.7
40°-50°	604.3	15.6
50°-60°	373.9	9.6
60°-70°	202.7	5.2
70°-80°	115.5	3.0
80°-90°	38.1	1.0
90°-100°	19.8	0.5
100°-110°	141.3	3.6
110°-120°	191.9	4.9
120°-130°	156.1	4.0
130°-140°	125.6	3.2
140°-150°	99.0	2.6
150°-160°	72.4	1.9
160°-170°	45.0	1.2
170°-180°	15.3	0.4
0°-30°	990.7	25.5
0°-40°	1677.2	43.2
0°-60°	2655.5	68.5
0°-90°	3011.8	77.7
90°-120°	353.0	9.1
90°-150°	733.8	18.9
90°-180°	866.0	22.3
0°-180°	3878.3	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	1	2	3	3	1
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	



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**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	16.4	15.4	12.9	11.5
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



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**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)