

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: P621750

Luminaire Tested: VLT-FB-025U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621750  
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-050D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

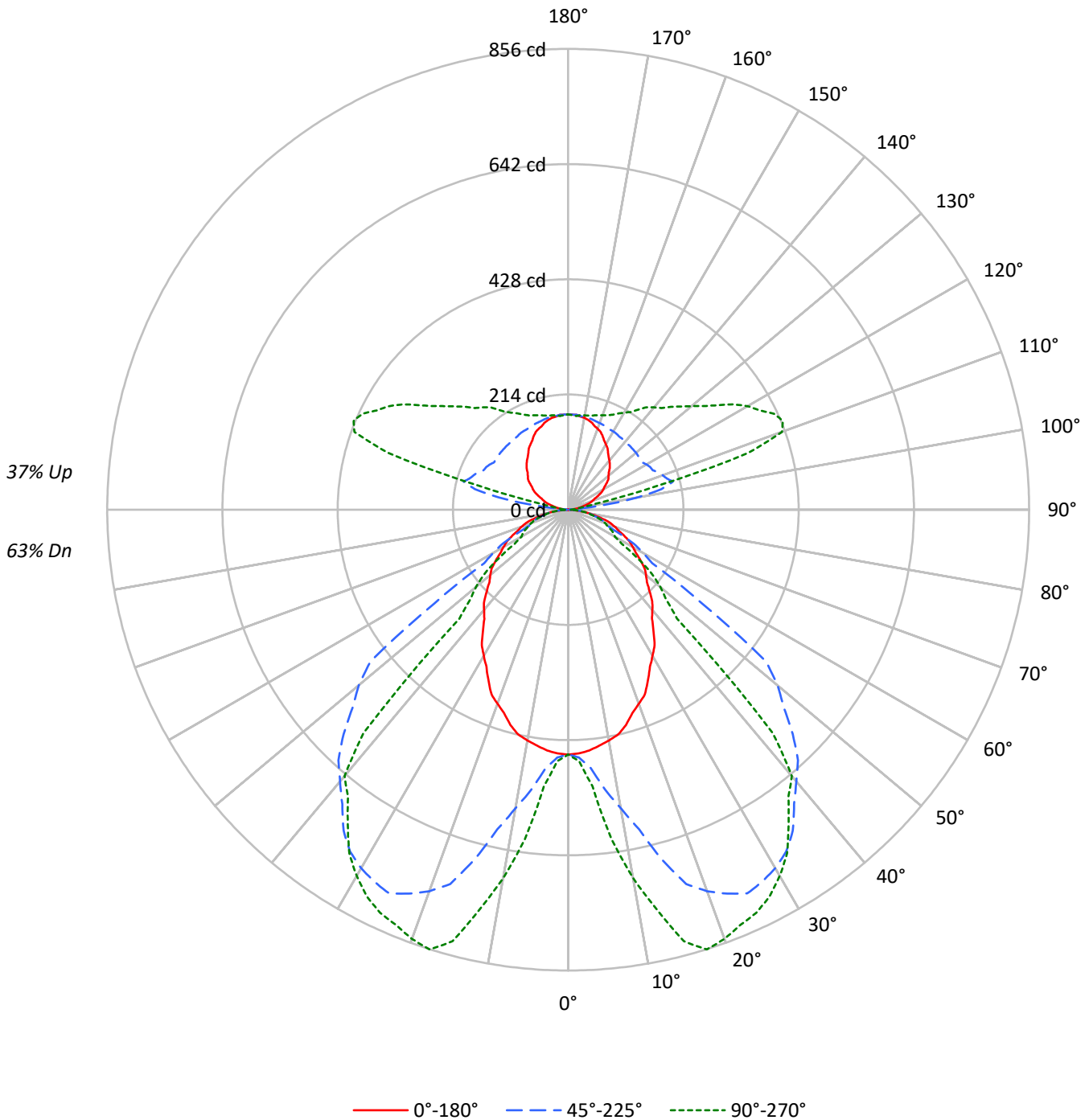
Lumens per Lamp: N/A  
Luminaire Lumens: 2579.6 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.7  
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



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63																			
1	101	97	94	90	95	92	88	85	81	78	76	71	69	67	62	60	59	55																			
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	55	53	51	47																			
3	85	76	69	64	80	72	66	61	64	59	55	56	53	50	49	47	44	41																			
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	45	41	39	36																			
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	40	37	34	31																			
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	30	28																			
7	62	50	42	36	58	47	40	35	42	36	32	38	33	30	34	30	27	25																			
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22																			
9	54	41	34	29	50	39	32	28	36	30	26	32	27	24	29	25	22	20																			
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	26	23	20	18																			

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

	0°	45°	90°
0°	3263	3263	3263
5°	3235	3468	3715
10°	3172	4101	5064
15°	3076	4998	6165
20°	2929	5759	6479
25°	2774	6227	6542
30°	2596	6371	6509
35°	2420	6371	6250
40°	2277	6172	6051
45°	2167	5983	2898
50°	2104	5665	2496
55°	2047	3792	1977
60°	1989	2308	1432
65°	1946	1757	1491
70°	1920	1532	1532
75°	1871	1589	1539
80°	1641	1603	1529
85°	1219	1671	1449

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5983 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	1.9
10°-20°	180.8	7.0
20°-30°	306.2	11.9
30°-40°	371.5	14.4
40°-50°	327.0	12.7
50°-60°	202.3	7.8
60°-70°	109.7	4.3
70°-80°	62.5	2.4
80°-90°	20.8	0.8
90°-100°	21.7	0.8
100°-110°	154.9	6.0
110°-120°	210.3	8.2
120°-130°	171.2	6.6
130°-140°	137.7	5.3
140°-150°	108.5	4.2
150°-160°	79.4	3.1
160°-170°	49.3	1.9
170°-180°	16.8	0.7
0°-30°	536.0	20.8
0°-40°	907.5	35.2
0°-60°	1436.8	55.7
0°-90°	1629.8	63.2
90°-120°	386.9	15.0
90°-150°	804.3	31.2
90°-180°	950.0	36.8
0°-180°	2579.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	449	464	482	502	516	42
15°	414	477	673	796	830	116
25°	350	480	786	810	826	161
35°	276	444	727	717	714	173
45°	214	365	590	500	286	166
55°	164	255	303	175	158	146
65°	115	144	104	89	88	114
75°	68	59	57	56	56	70
85°	15	20	20	18	18	18
90°	0	1	2	3	3	1
95°	9	16	9	10	12	10
105°	34	53	201	257	170	36
115°	61	74	174	360	421	61
125°	88	100	164	286	338	78
135°	109	121	165	235	270	84
145°	129	140	166	205	227	81
155°	151	157	169	186	195	69
165°	168	170	174	178	181	47
175°	177	178	177	176	175	17
180°	177	177	177	177	177	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.7	454.7	454.7	454.7	454.7
2.5°	453.2	458.3	460.6	465.1	467.3
5°	449.1	463.6	481.5	502.1	515.7
7.5°	441.9	467.8	524.4	589.5	617.3
10°	435.3	470.5	562.8	657.0	695.0
12.5°	427.9	473.3	607.9	722.1	760.8
15°	414.0	477.3	672.8	795.6	829.9
17.5°	396.1	479.8	729.0	834.5	856.5
20°	383.5	480.2	754.1	839.4	848.4
22.5°	371.7	480.7	771.9	827.5	835.1
25°	350.3	479.5	786.5	809.9	826.2
27.5°	328.8	474.1	779.3	798.2	809.9
30°	313.3	468.7	768.9	784.6	785.5
32.5°	298.5	459.7	753.4	758.0	756.7
35°	276.3	444.4	727.3	717.1	713.5
37.5°	255.6	424.1	689.2	672.8	671.9
40°	243.1	409.3	658.9	643.3	646.0
42.5°	231.2	392.4	631.6	613.2	562.4
45°	213.5	365.3	589.6	499.7	285.6
47.5°	198.1	334.4	542.1	267.7	245.8
50°	188.5	313.2	507.4	235.4	223.6
52.5°	178.9	293.5	462.3	211.7	196.3
55°	163.6	254.8	303.1	175.2	158.0
57.5°	149.0	214.2	185.2	136.2	117.6
60°	138.6	190.1	160.8	109.8	99.8
62.5°	129.0	170.4	137.1	97.4	95.4
65°	114.6	143.5	103.5	88.7	87.8
67.5°	101.1	117.9	78.9	79.8	78.9
70°	91.5	99.6	73.0	73.9	73.0
72.5°	82.6	82.1	67.1	66.5	65.6
75°	67.5	59.3	57.3	56.4	55.5
77.5°	51.6	43.8	46.2	45.3	44.4
80°	39.7	37.0	38.8	37.9	37.0
82.5°	29.4	30.3	31.4	29.7	28.8
85°	14.8	20.2	20.3	18.5	17.6
87.5°	4.4	9.0	8.6	7.3	6.6
90°	0.0	1.1	2.2	3.3	3.3
92.5°	2.7	3.8	4.9	6.9	7.8
95°	8.9	16.5	8.9	10.1	12.2
97.5°	15.8	31.7	65.4	19.3	16.7
100°	21.1	39.6	131.2	38.6	25.6
102.5°	26.5	45.8	177.5	101.9	55.8
105°	34.5	53.0	201.3	257.1	170.1
107.5°	42.5	56.4	192.1	374.2	350.5
110°	47.8	60.9	186.8	393.2	422.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.2	66.2	181.5	382.1	431.4
115°	61.2	74.2	173.5	360.5	421.4
117.5°	69.4	82.2	171.5	337.2	399.9
120°	75.6	87.6	167.9	319.5	384.7
122.5°	80.1	92.9	163.5	304.3	364.3
125°	87.8	99.8	163.5	285.8	338.0
127.5°	94.3	106.5	163.7	264.5	316.0
130°	97.8	110.9	164.6	250.2	299.1
132.5°	102.3	115.3	164.6	243.8	284.0
135°	109.0	120.9	164.6	235.4	270.2
137.5°	114.5	127.4	164.6	226.2	256.0
140°	119.0	130.9	164.6	220.8	248.0
142.5°	123.4	134.5	165.5	214.5	240.0
145°	129.0	139.9	165.7	205.1	226.8
147.5°	135.7	145.2	167.0	198.3	215.0
150°	140.1	148.8	167.9	193.8	207.9
152.5°	144.6	152.4	167.9	190.2	201.7
155°	151.2	156.7	169.0	185.9	194.6
157.5°	156.6	161.8	170.3	183.2	189.5
160°	160.1	164.5	171.2	181.4	186.8
162.5°	162.8	167.1	172.1	180.4	184.1
165°	167.9	170.1	173.5	178.0	181.2
167.5°	170.8	172.7	174.6	176.8	178.8
170°	173.5	174.5	174.6	176.8	177.9
172.5°	174.4	176.3	175.5	175.9	177.0
175°	176.8	177.9	176.8	175.7	174.6
177.5°	176.8	177.7	176.8	176.8	175.9
180°	176.8	176.8	176.8	176.8	176.8

(END OF REPORT)