

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: P621919

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621919  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-BB-M-025U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
BLACK BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

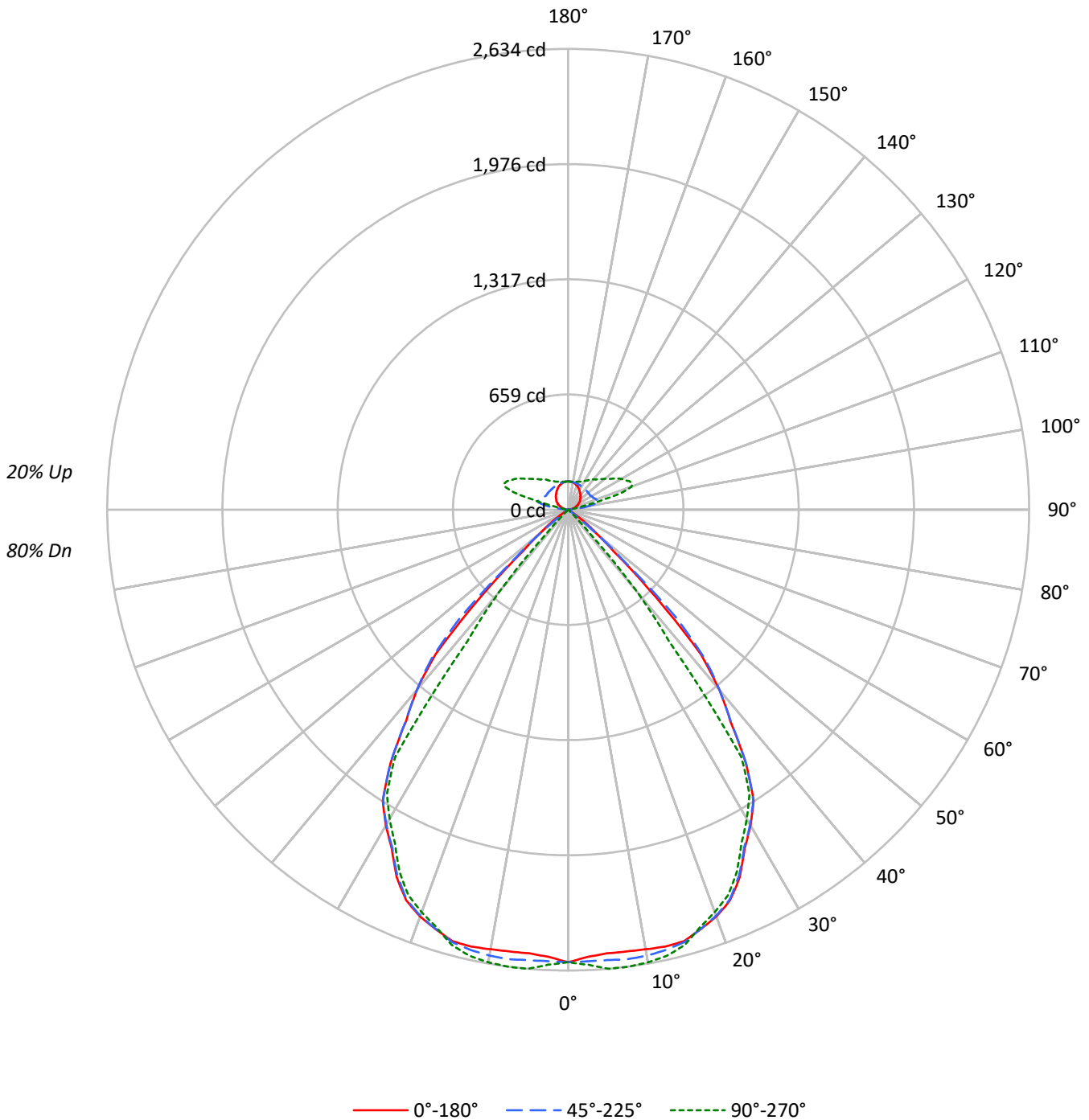
Lumens per Lamp: N/A  
Luminaire Lumens: 4429.1 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 47.5  
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: P621919  
CATALOG NUMBER: VLT-BB-M-025U-100D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P621919

CATALOG NUMBER: VLT-BB-M-025U-100D-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	50	30	10	50	30	10	0																			
RCR																																														
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80									80																			
1	108	105	102	99	103	101	98	96	93	91	89	86	84	83	79	78	77	74									74																			
2	101	96	91	87	97	92	88	85	86	83	80	80	77	75	74	73	71	68									68																			
3	95	88	82	77	91	85	80	76	79	75	72	74	71	68	70	67	65	62									62																			
4	89	80	74	69	86	78	72	68	73	69	65	69	65	62	65	62	59	57									57																			
5	84	74	67	63	80	72	66	61	68	63	59	64	60	57	61	57	55	52									52																			
6	78	68	62	57	76	66	60	56	63	58	54	60	55	52	57	53	50	48									48																			
7	74	63	56	52	71	62	55	51	58	53	49	56	51	48	53	49	46	44									44																			
8	69	59	52	47	67	57	51	47	54	49	45	52	47	44	49	46	43	41									41																			
9	65	55	48	44	63	53	47	43	51	46	42	49	44	41	46	42	40	38									38																			
10	62	51	44	40	60	50	44	40	48	42	39	45	41	38	44	40	37	35									35																			

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

	0°	45°	90°
0°	18558	18558	18558
5°	18337	18615	18976
10°	18591	18858	19139
15°	18969	19012	19126
20°	18895	18865	18689
25°	18353	18277	18064
30°	17258	17226	16906
35°	15509	15526	15086
40°	12592	12592	5763
45°	7241	8807	118
50°	2282	2110	107
55°	796	169	96
60°	56	111	111
65°	32	98	98
70°	40	122	122
75°	0	108	108
80°	0	161	161
85°	0	156	156

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8807 cd/sqm



TEST NUMBER: P621919

CATALOG NUMBER: VLT-BB-M-025U-100D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.1	5.6
10°-20°	721.1	16.3
20°-30°	1053.4	23.8
30°-40°	1043.3	23.6
40°-50°	436.8	9.9
50°-60°	46.7	1.1
60°-70°	6.6	0.1
70°-80°	4.0	0.1
80°-90°	2.2	0.1
90°-100°	19.9	0.4
100°-110°	141.6	3.2
110°-120°	192.2	4.3
120°-130°	156.4	3.5
130°-140°	125.8	2.8
140°-150°	99.2	2.2
150°-160°	72.5	1.6
160°-170°	45.0	1.0
170°-180°	15.4	0.3
0°-30°	2021.6	45.6
0°-40°	3064.9	69.2
0°-60°	3548.4	80.1
0°-90°	3561.2	80.4
90°-120°	353.6	8.0
90°-150°	735.0	16.6
90°-180°	868.0	19.6
0°-180°	4429.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2546	2591	2584	2591	2634	243
15°	2553	2606	2559	2541	2574	717
25°	2318	2358	2308	2253	2281	1059
35°	1770	1774	1772	1737	1722	1086
45°	714	847	868	17	12	560
55°	64	84	14	10	8	71
65°	2	8	6	6	6	2
75°	0	4	4	4	4	0
85°	0	2	2	2	2	0
90°	0	1	2	3	3	0
95°	8	15	8	9	11	9
105°	32	48	184	235	156	33
115°	56	68	158	330	385	55
125°	80	91	149	261	309	71
135°	100	110	150	215	247	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	154	155	158	163	166	43
175°	162	163	162	160	160	15
180°	162	162	162	162	162	



TEST NUMBER: P621919

CATALOG NUMBER: VLT-BB-M-025U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2586.1	2586.1	2586.1	2586.1	2586.1
2.5°	2558.3	2594.5	2583.0	2580.5	2603.1
5°	2545.6	2590.9	2584.2	2591.0	2634.3
7.5°	2546.8	2588.6	2591.1	2591.0	2634.3
10°	2551.4	2594.8	2588.0	2583.2	2626.6
12.5°	2557.6	2602.4	2577.2	2569.3	2611.2
15°	2553.3	2606.1	2559.1	2540.6	2574.5
17.5°	2514.4	2575.5	2513.6	2477.9	2502.8
20°	2474.3	2538.4	2470.4	2420.9	2447.3
22.5°	2417.2	2476.8	2411.8	2354.6	2385.5
25°	2318.0	2357.6	2308.4	2253.1	2281.4
27.5°	2183.1	2205.7	2177.7	2127.9	2145.3
30°	2082.8	2097.9	2078.9	2029.0	2040.3
32.5°	1971.7	1979.2	1967.8	1922.4	1927.7
35°	1770.4	1774.1	1772.3	1737.2	1722.1
37.5°	1521.6	1529.1	1524.7	1372.3	946.9
40°	1344.2	1351.7	1344.2	803.8	615.2
42.5°	1122.0	1170.3	1157.5	548.1	175.5
45°	713.5	847.4	867.8	17.2	11.6
47.5°	352.5	497.0	408.1	11.2	11.2
50°	204.4	293.0	189.0	9.6	9.6
52.5°	136.5	178.4	54.8	9.6	9.6
55°	63.6	84.4	13.5	9.6	7.7
57.5°	22.4	42.4	9.3	7.7	7.7
60°	3.9	20.8	7.7	7.7	7.7
62.5°	2.3	11.7	7.7	6.2	7.7
65°	1.9	7.6	5.8	5.8	5.8
67.5°	1.9	5.7	5.8	5.8	5.8
70°	1.9	5.7	5.8	5.8	5.8
72.5°	0.4	4.2	4.2	4.3	5.8
75°	0.0	3.8	3.9	3.9	3.9
77.5°	0.0	3.8	3.9	3.9	3.9
80°	0.0	3.8	3.9	3.9	3.9
82.5°	0.0	2.3	2.3	2.3	3.9
85°	0.0	1.9	1.9	1.9	1.9
87.5°	0.0	1.7	1.9	2.2	2.2
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	59.8	17.6	15.2
100°	19.3	36.2	119.9	35.3	23.4
102.5°	24.2	41.9	162.2	93.1	51.0
105°	31.5	48.4	183.9	235.0	155.5
107.5°	38.8	51.5	175.6	342.0	320.3
110°	43.7	55.6	170.7	359.3	386.2

TEST NUMBER: P621919

CATALOG NUMBER: VLT-BB-M-025U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	48.6	60.5	165.8	349.2	394.3
115°	55.9	67.8	158.5	329.5	385.2
117.5°	63.4	75.1	156.7	308.2	365.4
120°	69.1	80.0	153.5	292.0	351.6
122.5°	73.2	84.9	149.4	278.1	332.9
125°	80.3	91.2	149.4	261.2	308.9
127.5°	86.2	97.3	149.6	241.7	288.8
130°	89.4	101.4	150.4	228.7	273.4
132.5°	93.5	105.4	150.4	222.8	259.5
135°	99.6	110.5	150.4	215.1	246.9
137.5°	104.7	116.4	150.4	206.7	233.9
140°	108.7	119.7	150.4	201.8	226.6
142.5°	112.8	122.9	151.2	196.1	219.3
145°	117.9	127.8	151.4	187.4	207.3
147.5°	124.0	132.7	152.6	181.2	196.5
150°	128.0	136.0	153.5	177.1	190.0
152.5°	132.1	139.3	153.5	173.8	184.3
155°	138.2	143.2	154.5	169.9	177.8
157.5°	143.1	147.9	155.7	167.4	173.2
160°	146.3	150.3	156.5	165.8	170.7
162.5°	148.8	152.8	157.3	164.9	168.3
165°	153.5	155.4	158.5	162.7	165.6
167.5°	156.1	157.9	159.5	161.6	163.4
170°	158.5	159.5	159.5	161.6	162.6
172.5°	159.3	161.1	160.4	160.8	161.8
175°	161.6	162.6	161.6	160.5	159.5
177.5°	161.6	162.4	161.6	161.6	160.8
180°	161.6	161.6	161.6	161.6	161.6



TEST NUMBER: P621919

CATALOG NUMBER: VLT-BB-M-025U-100D-930-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.19	1.05	0.88	1.72	2.49	0.00	0.00	0.00	0.00	0.00
	3H	0.06	0.82	0.76	1.50	2.31	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.68	0.69	1.37	2.19	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.52	0.60	1.22	2.06	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.43	0.56	1.15	1.98	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.34	0.50	1.05	1.91	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.64	0.65	1.33	2.15	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.43	0.58	1.16	2.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.30	0.53	1.03	1.91	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.17	0.50	0.93	1.81	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.10	0.45	0.85	1.74	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.41	0.77	1.66	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.10	0.46	0.85	1.74	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.05	0.51	0.85	1.74	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.02	0.53	0.82	1.72	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.51	0.75	1.72	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.01	0.43	0.79	1.68	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.51	0.80	1.71	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.55	0.79	1.76	0.00	0.00	0.00	0.00	0.00