

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: P622003

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622003  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-WB-M-025U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE 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**

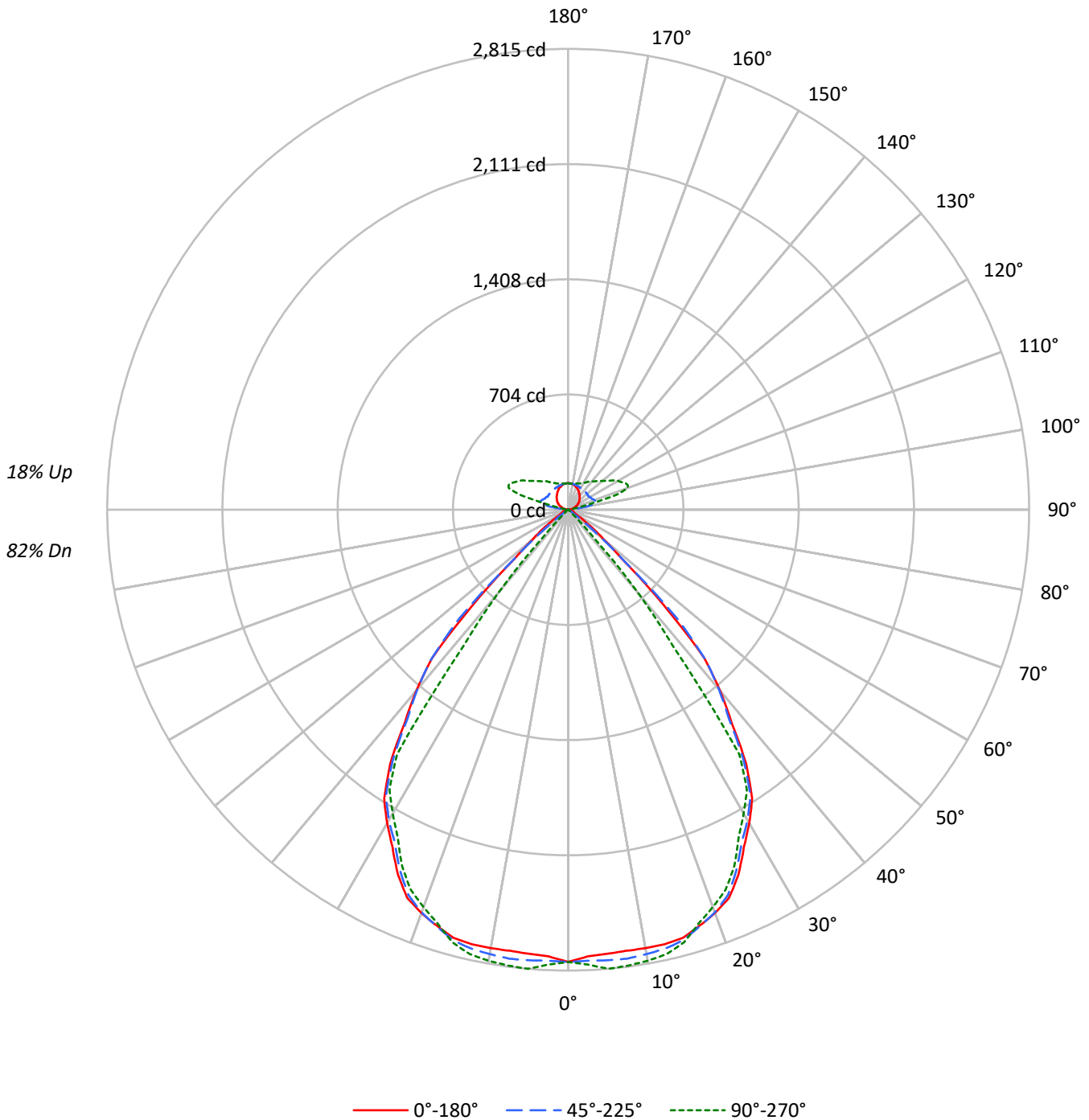
Lumens per Lamp: N/A  
Luminaire Lumens: 4700.2 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



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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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	108	105	102	99	104	101	98	96	93	92	90	87	85	84	80	79	78	75
2	101	96	91	87	97	93	88	85	86	83	80	80	78	76	75	73	72	69
3	95	88	82	77	91	85	80	76	80	76	72	75	71	69	70	68	65	63
4	89	81	74	69	86	78	72	68	74	69	65	69	66	62	65	62	60	58
5	84	74	67	63	81	72	66	61	68	63	59	64	60	57	61	58	55	53
6	78	68	62	57	76	67	60	56	63	58	54	60	55	52	57	53	50	48
7	74	63	56	52	71	62	55	51	59	53	49	56	51	48	53	49	46	45
8	69	59	52	47	67	57	51	47	55	49	45	52	47	44	50	46	43	41
9	65	55	48	43	63	53	47	43	51	46	42	49	44	41	47	43	40	38
10	62	51	44	40	60	50	44	40	48	42	39	46	41	38	44	40	37	35

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

	0°	45°	90°
0°	19823	19823	19823
5°	19617	19899	20279
10°	19815	20086	20385
15°	20116	20217	20319
20°	20020	19990	19721
25°	19473	19240	19008
30°	18321	18143	17755
35°	16595	16355	15961
40°	13497	13406	6336
45°	8352	9523	436
50°	3186	2553	262
55°	1565	464	98
60°	758	224	29
65°	698	34	34
70°	657	42	42
75°	652	55	55
80°	645	83	0
85°	642	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9523 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.8	5.6
10°-20°	765.3	16.3
20°-30°	1112.7	23.7
30°-40°	1107.3	23.6
40°-50°	486.9	10.4
50°-60°	71.9	1.5
60°-70°	16.4	0.3
70°-80°	6.1	0.1
80°-90°	1.8	0.0
90°-100°	19.9	0.4
100°-110°	141.6	3.0
110°-120°	192.2	4.1
120°-130°	156.4	3.3
130°-140°	125.8	2.7
140°-150°	99.2	2.1
150°-160°	72.5	1.5
160°-170°	45.0	1.0
170°-180°	15.4	0.3
0°-30°	2141.8	45.6
0°-40°	3249.1	69.1
0°-60°	3808.0	81.0
0°-90°	3832.3	81.5
90°-120°	353.6	7.5
90°-150°	735.0	15.6
90°-180°	868.0	18.5
0°-180°	4700.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2723	2771	2762	2769	2815	260
15°	2708	2765	2721	2695	2735	761
25°	2459	2505	2430	2366	2401	1124
35°	1894	1889	1867	1828	1822	1160
45°	823	936	938	62	43	637
55°	125	135	37	14	8	126
65°	41	35	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
90°	0	1	2	3	3	1
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2731.1	2772.4	2757.7	2756.7	2781.2
5°	2723.3	2771.1	2762.4	2769.3	2815.2
7.5°	2717.8	2766.0	2765.9	2762.7	2808.5
10°	2719.4	2769.1	2756.5	2751.7	2797.6
12.5°	2719.4	2772.1	2745.6	2733.0	2780.4
15°	2707.7	2765.0	2721.3	2694.9	2735.0
17.5°	2665.4	2727.7	2667.8	2616.1	2649.8
20°	2621.6	2688.5	2617.7	2552.0	2582.5
22.5°	2566.9	2626.2	2548.9	2480.0	2512.2
25°	2459.4	2505.3	2430.0	2366.3	2400.7
27.5°	2323.7	2348.9	2292.8	2231.5	2253.7
30°	2211.1	2230.2	2189.6	2131.2	2142.7
32.5°	2090.7	2103.7	2070.7	2020.1	2030.1
35°	1894.4	1888.6	1867.0	1827.8	1822.0
37.5°	1637.9	1627.9	1614.0	1462.3	1048.7
40°	1440.8	1444.6	1431.1	894.3	676.4
42.5°	1232.8	1256.5	1237.1	609.0	221.3
45°	823.0	935.8	938.4	62.1	43.0
47.5°	445.0	567.7	461.8	38.5	31.3
50°	285.4	356.2	228.7	29.2	23.5
52.5°	204.1	238.1	89.5	22.9	17.2
55°	125.1	134.7	37.1	13.6	7.8
57.5°	74.7	88.8	23.5	5.0	2.0
60°	52.8	62.3	15.6	2.0	2.0
62.5°	46.5	46.9	10.9	2.0	2.0
65°	41.1	35.3	2.0	2.0	2.0
67.5°	36.0	25.6	2.0	2.0	2.0
70°	31.3	17.9	2.0	2.0	2.0
72.5°	28.2	11.7	2.0	2.0	2.0
75°	23.5	4.3	2.0	2.0	2.0
77.5°	18.8	2.3	2.0	1.6	1.6
80°	15.6	2.3	2.0	0.0	0.0
82.5°	12.5	2.2	0.4	0.0	0.0
85°	7.8	0.2	0.0	0.0	0.0
87.5°	3.1	0.3	0.4	0.6	0.6
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



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**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



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**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	5.10	5.98	5.76	6.63	7.37	0.00	0.00	0.00	0.00	0.00
	3H	5.54	6.32	6.23	6.98	7.77	0.00	0.00	0.00	0.00	0.00
	4H	5.71	6.43	6.41	7.11	7.91	0.00	0.00	0.00	0.00	0.00
	6H	5.90	6.56	6.61	7.25	8.06	0.00	0.00	0.00	0.00	0.00
	8H	5.98	6.61	6.71	7.31	8.13	0.00	0.00	0.00	0.00	0.00
	12H	6.05	6.65	6.78	7.34	8.18	0.00	0.00	0.00	0.00	0.00
4H	2H	4.81	5.53	5.51	6.20	7.01	0.00	0.00	0.00	0.00	0.00
	3H	5.29	5.88	6.00	6.60	7.41	0.00	0.00	0.00	0.00	0.00
	4H	5.47	5.99	6.19	6.71	7.56	0.00	0.00	0.00	0.00	0.00
	6H	5.70	6.15	6.45	6.89	7.76	0.00	0.00	0.00	0.00	0.00
	8H	5.82	6.24	6.57	6.98	7.84	0.00	0.00	0.00	0.00	0.00
	12H	5.93	6.30	6.70	7.06	7.93	0.00	0.00	0.00	0.00	0.00
8H	4H	5.30	5.72	6.05	6.45	7.32	0.00	0.00	0.00	0.00	0.00
	6H	5.53	5.87	6.31	6.65	7.52	0.00	0.00	0.00	0.00	0.00
	8H	5.66	5.96	6.45	6.75	7.63	0.00	0.00	0.00	0.00	0.00
	12H	5.80	6.06	6.59	6.83	7.78	0.00	0.00	0.00	0.00	0.00
12H	4H	5.23	5.60	6.00	6.36	7.23	0.00	0.00	0.00	0.00	0.00
	6H	5.46	5.76	6.26	6.55	7.44	0.00	0.00	0.00	0.00	0.00
	8H	5.60	5.86	6.38	6.63	7.58	0.00	0.00	0.00	0.00	0.00