

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: P622006

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622006  
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-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
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: 5707.7 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

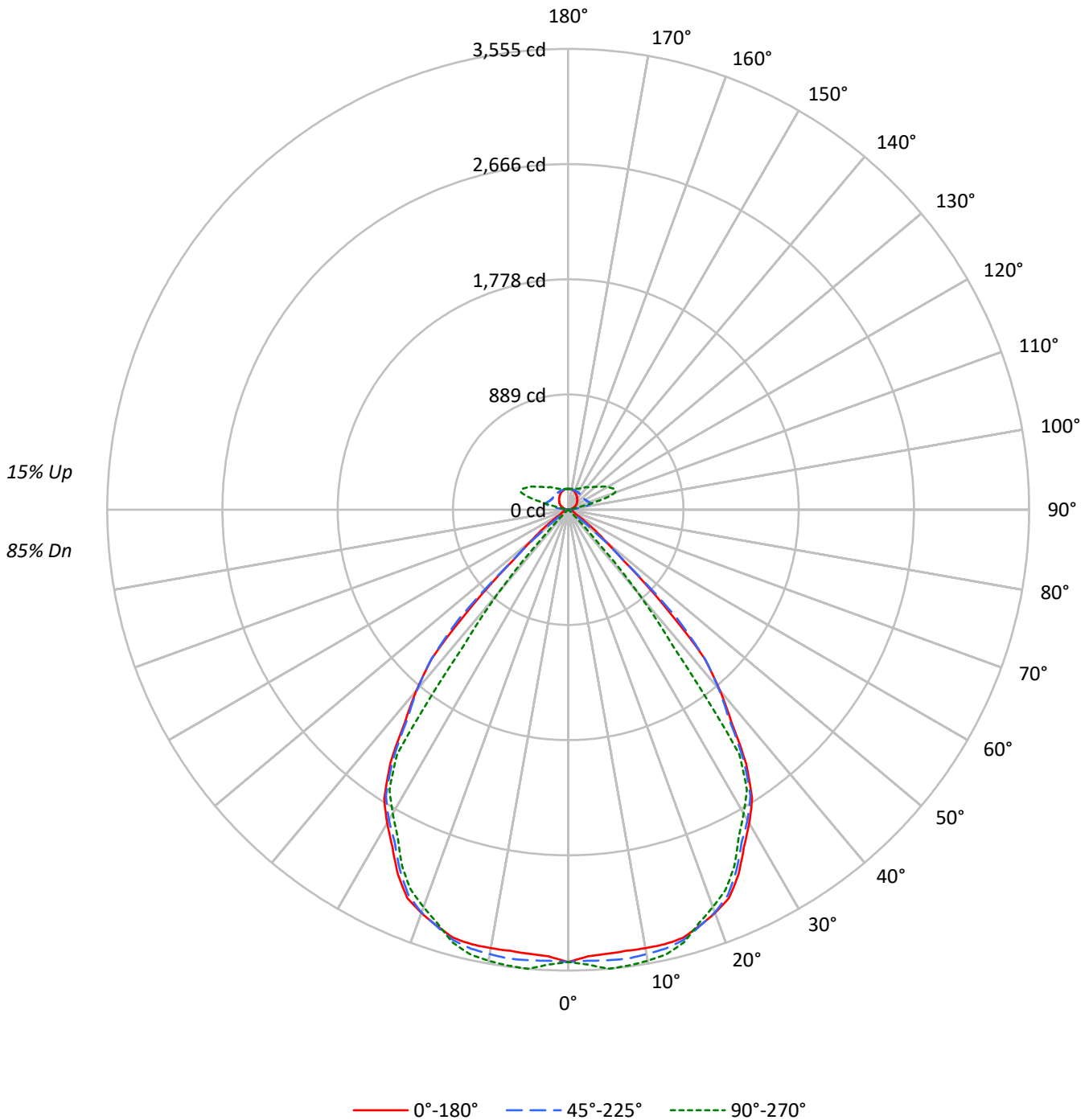
Input Watts (W): 58.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
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	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	109	106	103	100	105	102	100	97	95	93	92	89	88	86	83	82	81	78				
2	102	97	92	88	99	94	90	86	88	85	82	83	80	78	78	76	74	72				
3	96	89	83	79	93	86	81	77	81	77	74	77	74	71	73	70	68	65				
4	90	82	75	70	87	79	74	69	75	70	67	71	67	64	68	65	62	60				
5	85	75	68	64	82	73	67	63	70	65	61	66	62	59	63	60	57	55				
6	79	69	63	58	77	68	61	57	65	59	55	62	57	54	59	55	52	50				
7	75	64	57	53	72	63	56	52	60	55	51	57	53	49	55	51	48	46				
8	70	60	53	48	68	58	52	48	56	50	47	54	49	45	52	47	44	43				
9	66	55	49	44	64	54	48	44	52	47	43	50	45	42	48	44	41	39				
10	62	52	45	41	61	51	45	41	49	43	40	47	42	39	45	41	38	37				

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

	0°	45°	90°
0°	25035	25035	25035
5°	24774	25130	25611
10°	25025	25367	25744
15°	25404	25532	25661
20°	25284	25246	24906
25°	24593	24300	24006
30°	23138	22913	22422
35°	20959	20656	20158
40°	17045	16930	8003
45°	10548	12027	551
50°	4025	3225	330
55°	1977	587	124
60°	957	284	36
65°	880	42	42
70°	829	52	52
75°	821	69	69
80°	818	103	0
85°	815	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12027 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.2	5.8
10°-20°	966.5	16.9
20°-30°	1405.3	24.6
30°-40°	1398.5	24.5
40°-50°	615.0	10.8
50°-60°	90.8	1.6
60°-70°	20.7	0.4
70°-80°	7.7	0.1
80°-90°	2.1	0.0
90°-100°	19.9	0.3
100°-110°	141.6	2.5
110°-120°	192.2	3.4
120°-130°	156.4	2.7
130°-140°	125.8	2.2
140°-150°	99.2	1.7
150°-160°	72.5	1.3
160°-170°	45.0	0.8
170°-180°	15.4	0.3
0°-30°	2705.0	47.4
0°-40°	4103.4	71.9
0°-60°	4809.2	84.3
0°-90°	4839.8	84.8
90°-120°	353.6	6.2
90°-150°	735.0	12.9
90°-180°	868.0	15.2
0°-180°	5707.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3489	3489	3489	3489	3489	
5°	3439	3500	3489	3497	3555	328
15°	3420	3492	3437	3403	3454	961
25°	3106	3164	3069	2988	3032	1420
35°	2392	2385	2358	2308	2301	1465
45°	1039	1182	1185	78	54	805
55°	158	170	47	17	10	160
65°	52	45	2	2	2	52
75°	30	6	2	2	2	31
85°	10	0	0	0	0	10
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	



TEST NUMBER: P622006

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3488.7	3488.7	3488.7	3488.7	3488.7
2.5°	3449.2	3501.3	3482.8	3481.5	3512.4
5°	3439.3	3499.7	3488.7	3497.4	3555.4
7.5°	3432.4	3493.2	3493.1	3489.0	3547.0
10°	3434.4	3497.1	3481.3	3475.2	3533.1
12.5°	3434.4	3501.0	3467.5	3451.5	3511.4
15°	3419.6	3492.0	3436.8	3403.4	3454.1
17.5°	3366.2	3444.9	3369.2	3304.0	3346.5
20°	3310.9	3395.4	3306.0	3222.9	3261.5
22.5°	3241.8	3316.6	3219.1	3132.1	3172.7
25°	3106.0	3163.9	3069.0	2988.5	3031.9
27.5°	2934.6	2966.5	2895.6	2818.3	2846.3
30°	2792.4	2816.6	2765.3	2691.5	2706.0
32.5°	2640.3	2656.8	2615.2	2551.3	2563.8
35°	2392.5	2385.2	2357.9	2308.3	2301.1
37.5°	2068.5	2056.0	2038.4	1846.8	1324.4
40°	1819.6	1824.5	1807.3	1129.5	854.3
42.5°	1556.9	1586.9	1562.4	769.1	279.5
45°	1039.4	1181.9	1185.1	78.5	54.3
47.5°	561.9	716.9	583.2	48.7	39.5
50°	360.5	449.8	288.9	36.9	29.6
52.5°	257.8	300.7	113.1	29.0	21.7
55°	158.0	170.1	46.9	17.1	9.9
57.5°	94.3	112.2	29.6	6.3	2.5
60°	66.7	78.7	19.8	2.5	2.5
62.5°	58.8	59.2	13.8	2.5	2.5
65°	51.8	44.6	2.5	2.5	2.5
67.5°	45.4	32.4	2.5	2.5	2.5
70°	39.5	22.6	2.5	2.5	2.5
72.5°	35.6	14.8	2.5	2.5	2.5
75°	29.6	5.5	2.5	2.5	2.5
77.5°	23.7	2.9	2.5	2.0	2.0
80°	19.8	2.9	2.5	0.0	0.0
82.5°	15.8	2.8	0.5	0.0	0.0
85°	9.9	0.2	0.0	0.0	0.0
87.5°	4.0	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

TEST NUMBER: P622006

CATALOG NUMBER: VLT-WB-M-025U-125D-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



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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	6.17	7.08	6.80	7.68	8.36	0.00	0.00	0.00	0.00	0.00
	3H	6.62	7.42	7.26	8.04	8.76	0.00	0.00	0.00	0.00	0.00
	4H	6.79	7.53	7.45	8.16	8.90	0.00	0.00	0.00	0.00	0.00
	6H	6.98	7.66	7.65	8.30	9.05	0.00	0.00	0.00	0.00	0.00
	8H	7.07	7.71	7.75	8.37	9.12	0.00	0.00	0.00	0.00	0.00
	12H	7.14	7.75	7.82	8.40	9.17	0.00	0.00	0.00	0.00	0.00
4H	2H	5.89	6.63	6.55	7.26	8.00	0.00	0.00	0.00	0.00	0.00
	3H	6.37	6.98	7.04	7.65	8.40	0.00	0.00	0.00	0.00	0.00
	4H	6.55	7.09	7.23	7.76	8.55	0.00	0.00	0.00	0.00	0.00
	6H	6.78	7.25	7.49	7.95	8.75	0.00	0.00	0.00	0.00	0.00
	8H	6.90	7.33	7.61	8.03	8.83	0.00	0.00	0.00	0.00	0.00
	12H	7.01	7.39	7.74	8.12	8.93	0.00	0.00	0.00	0.00	0.00
8H	4H	6.38	6.81	7.09	7.50	8.31	0.00	0.00	0.00	0.00	0.00
	6H	6.61	6.96	7.35	7.70	8.51	0.00	0.00	0.00	0.00	0.00
	8H	6.74	7.05	7.49	7.80	8.62	0.00	0.00	0.00	0.00	0.00
	12H	6.88	7.15	7.63	7.88	8.78	0.00	0.00	0.00	0.00	0.00
12H	4H	6.31	6.69	7.04	7.41	8.22	0.00	0.00	0.00	0.00	0.00
	6H	6.54	6.85	7.30	7.60	8.42	0.00	0.00	0.00	0.00	0.00
	8H	6.68	6.95	7.43	7.68	8.57	0.00	0.00	0.00	0.00	0.00