

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: P622044

Luminaire Tested: VLT-WB-M-0U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622044  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5040.2 lumens  
Efficiency: N/A  
Efficacy: 101.8 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: Direct

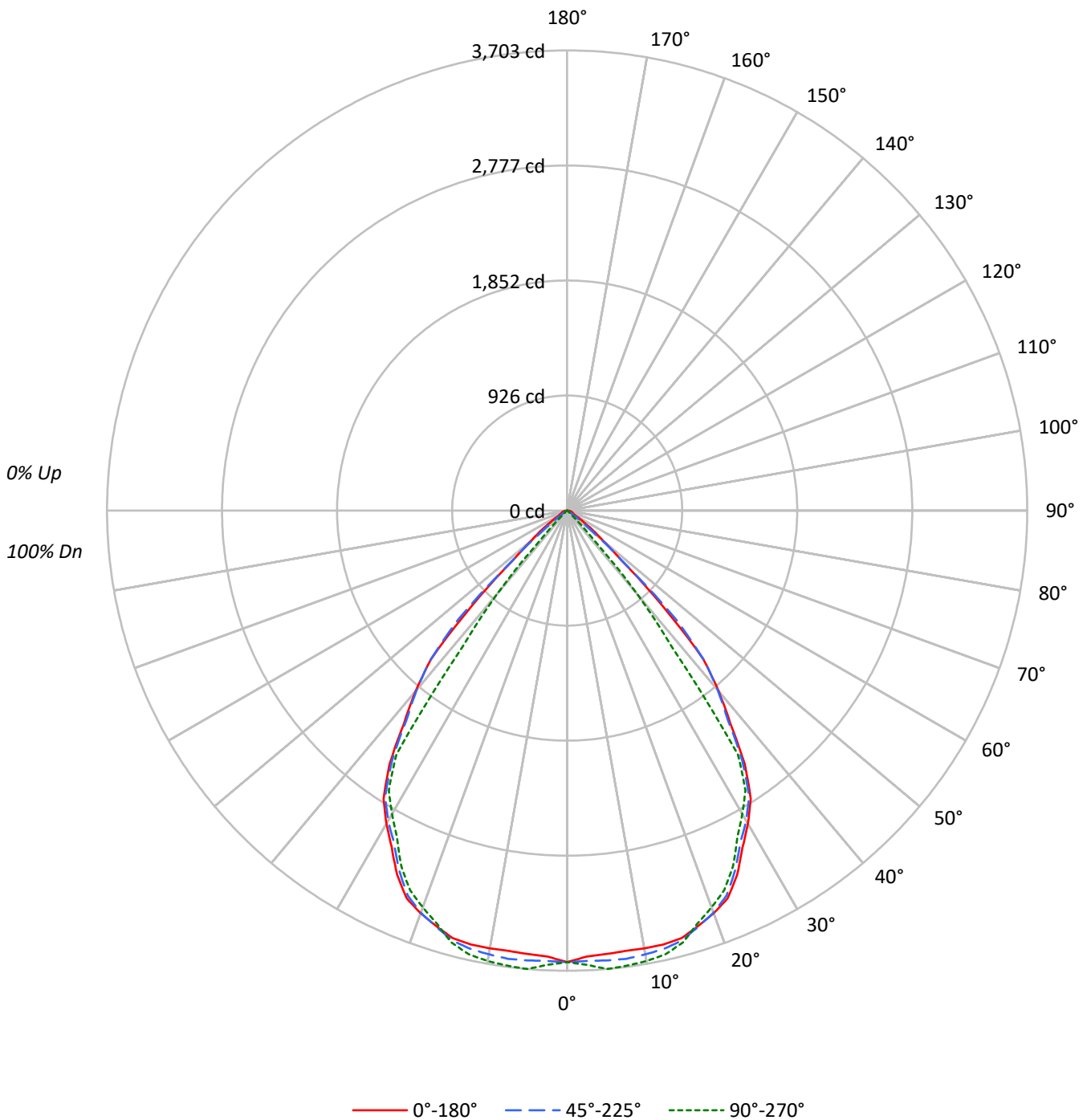
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	84				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71				
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	69	66	65				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43				

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

	0°	45°	90°
0°	26073	26073	26073
5°	25802	26173	26673
10°	26064	26419	26813
15°	26458	26592	26725
20°	26333	26294	25940
25°	25613	25308	25002
30°	24098	23864	23353
35°	21828	21512	20995
40°	17752	17632	8334
45°	10987	12526	574
50°	4191	3359	345
55°	2059	612	129
60°	996	296	37
65°	917	44	44
70°	862	55	55
75°	857	72	72
80°	851	107	0
85°	848	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12526 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	6.9
10°-20°	1006.6	20.0
20°-30°	1463.6	29.0
30°-40°	1456.5	28.9
40°-50°	640.5	12.7
50°-60°	94.6	1.9
60°-70°	21.6	0.4
70°-80°	8.1	0.2
80°-90°	1.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2817.2	55.9
0°-40°	4273.7	84.8
0°-60°	5008.7	99.4
0°-90°	5040.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5040.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3582	3645	3633	3642	3703	342
15°	3561	3637	3579	3545	3597	1001
25°	3235	3295	3196	3112	3158	1479
35°	2492	2484	2456	2404	2397	1525
45°	1083	1231	1234	82	57	838
55°	165	177	49	18	10	166
65°	54	46	3	3	3	54
75°	31	6	3	3	3	33
85°	10	0	0	0	0	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3633.4	3633.4	3633.4	3633.4	3633.4
2.5°	3592.3	3646.6	3627.3	3625.9	3658.1
5°	3582.0	3644.9	3633.4	3642.5	3702.9
7.5°	3574.8	3638.2	3638.1	3633.8	3694.1
10°	3576.9	3642.2	3625.7	3619.4	3679.7
12.5°	3576.9	3646.3	3611.3	3594.7	3657.1
15°	3561.4	3636.9	3579.4	3544.6	3597.4
17.5°	3505.9	3587.9	3509.0	3441.1	3485.3
20°	3448.3	3536.3	3443.2	3356.6	3396.9
22.5°	3376.3	3454.2	3352.6	3262.1	3304.3
25°	3234.9	3295.2	3196.3	3112.5	3157.7
27.5°	3056.4	3089.6	3015.8	2935.2	2964.4
30°	2908.3	2933.4	2880.0	2803.2	2818.3
32.5°	2749.9	2767.0	2723.7	2657.1	2670.2
35°	2491.7	2484.2	2455.7	2404.1	2396.6
37.5°	2154.4	2141.3	2123.0	1923.4	1379.3
40°	1895.1	1900.2	1882.3	1176.3	889.7
42.5°	1621.5	1652.7	1627.2	801.0	291.1
45°	1082.6	1230.9	1234.3	81.7	56.6
47.5°	585.3	746.7	607.4	50.7	41.1
50°	375.4	468.5	300.9	38.4	30.9
52.5°	268.5	313.2	117.8	30.2	22.6
55°	164.6	177.1	48.9	17.8	10.3
57.5°	98.2	116.8	30.9	6.6	2.6
60°	69.4	82.0	20.6	2.6	2.6
62.5°	61.2	61.7	14.4	2.6	2.6
65°	54.0	46.5	2.6	2.6	2.6
67.5°	47.3	33.7	2.6	2.6	2.6
70°	41.1	23.5	2.6	2.6	2.6
72.5°	37.0	15.4	2.6	2.6	2.6
75°	30.9	5.7	2.6	2.6	2.6
77.5°	24.7	3.1	2.6	2.1	2.1
80°	20.6	3.0	2.6	0.0	0.0
82.5°	16.5	2.9	0.5	0.0	0.0
85°	10.3	0.2	0.0	0.0	0.0
87.5°	4.1	0.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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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	7.57	8.66	7.94	8.97	9.28	0.00	0.00	0.00	0.00	0.00
	3H	8.03	8.98	8.41	9.31	9.68	0.00	0.00	0.00	0.00	0.00
	4H	8.20	9.08	8.61	9.43	9.82	0.00	0.00	0.00	0.00	0.00
	6H	8.40	9.20	8.81	9.57	9.97	0.00	0.00	0.00	0.00	0.00
	8H	8.49	9.24	8.92	9.63	10.04	0.00	0.00	0.00	0.00	0.00
	12H	8.56	9.28	8.99	9.66	10.09	0.00	0.00	0.00	0.00	0.00
4H	2H	7.30	8.18	7.71	8.53	8.92	0.00	0.00	0.00	0.00	0.00
	3H	7.79	8.50	8.21	8.91	9.31	0.00	0.00	0.00	0.00	0.00
	4H	7.97	8.60	8.41	9.02	9.47	0.00	0.00	0.00	0.00	0.00
	6H	8.21	8.74	8.68	9.19	9.67	0.00	0.00	0.00	0.00	0.00
	8H	8.32	8.82	8.80	9.27	9.75	0.00	0.00	0.00	0.00	0.00
	12H	8.44	8.88	8.93	9.36	9.84	0.00	0.00	0.00	0.00	0.00
8H	4H	7.80	8.30	8.27	8.75	9.22	0.00	0.00	0.00	0.00	0.00
	6H	8.03	8.43	8.54	8.93	9.42	0.00	0.00	0.00	0.00	0.00
	8H	8.15	8.51	8.68	9.03	9.53	0.00	0.00	0.00	0.00	0.00
	12H	8.30	8.62	8.82	9.11	9.69	0.00	0.00	0.00	0.00	0.00
12H	4H	7.74	8.17	8.23	8.66	9.14	0.00	0.00	0.00	0.00	0.00
	6H	7.96	8.32	8.49	8.84	9.33	0.00	0.00	0.00	0.00	0.00
	8H	8.10	8.41	8.62	8.91	9.49	0.00	0.00	0.00	0.00	0.00