

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: P622004

Luminaire Tested: VLT-WB-M-025U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622004  
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-935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

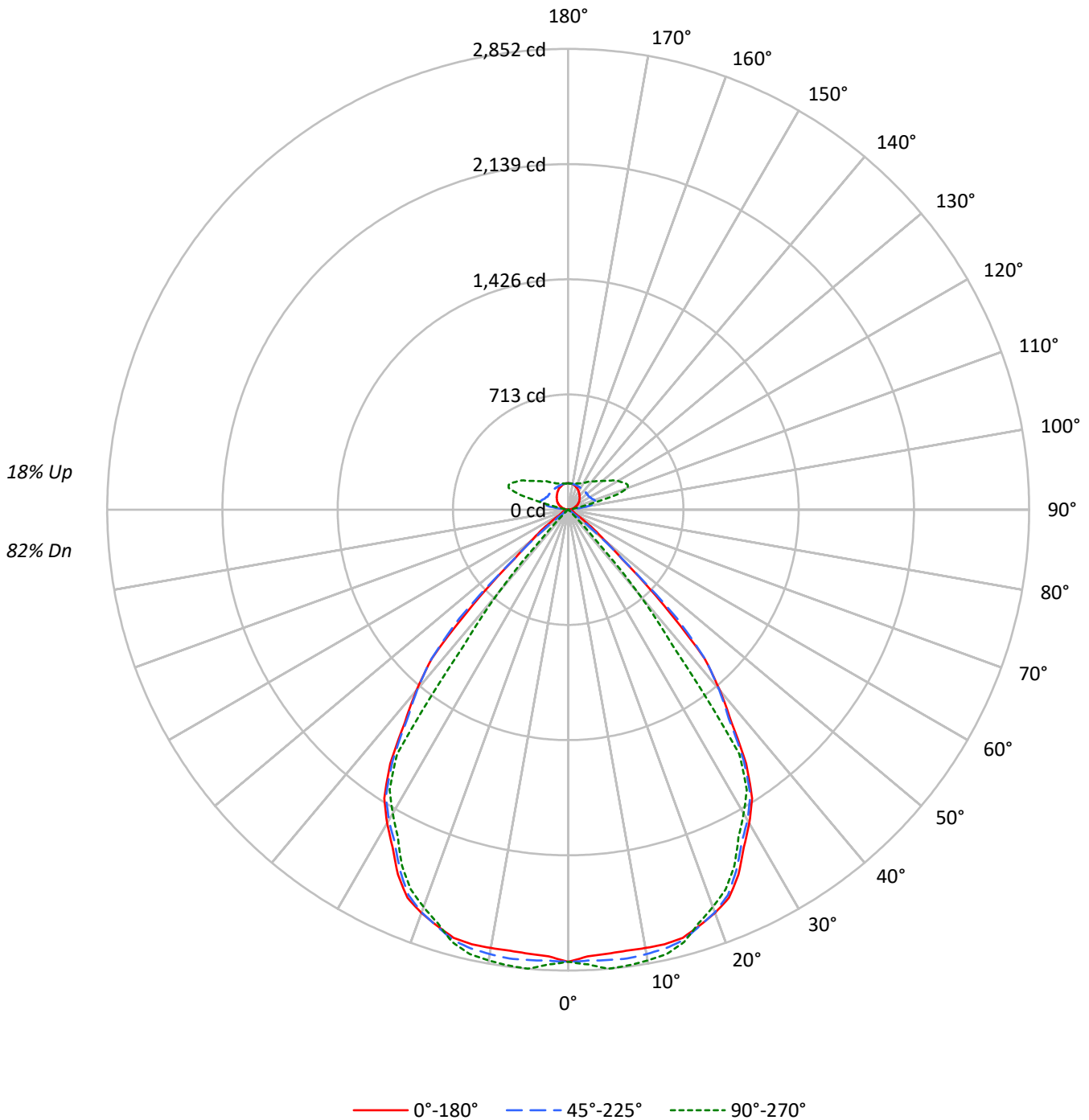
Lumens per Lamp: N/A  
Luminaire Lumens: 4760.8 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	
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°	20078	20078	20078
5°	19870	20155	20540
10°	20070	20345	20647
15°	20375	20478	20581
20°	20278	20248	19976
25°	19724	19489	19254
30°	18557	18377	17983
35°	16809	16566	16167
40°	13671	13578	6418
45°	8461	9646	442
50°	3227	2587	266
55°	1585	470	99
60°	768	227	29
65°	706	34	34
70°	665	42	42
75°	660	55	55
80°	653	83	0
85°	650	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9646 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	5.6
10°-20°	775.2	16.3
20°-30°	1127.1	23.7
30°-40°	1121.6	23.6
40°-50°	493.2	10.4
50°-60°	72.8	1.5
60°-70°	16.6	0.3
70°-80°	6.2	0.1
80°-90°	1.8	0.0
90°-100°	20.1	0.4
100°-110°	143.4	3.0
110°-120°	194.7	4.1
120°-130°	158.4	3.3
130°-140°	127.4	2.7
140°-150°	100.5	2.1
150°-160°	73.5	1.5
160°-170°	45.6	1.0
170°-180°	15.6	0.3
0°-30°	2169.4	45.6
0°-40°	3291.0	69.1
0°-60°	3857.1	81.0
0°-90°	3881.7	81.5
90°-120°	358.2	7.5
90°-150°	744.5	15.6
90°-180°	879.0	18.5
0°-180°	4760.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2758	2807	2798	2805	2852	263
15°	2743	2801	2756	2730	2770	771
25°	2491	2538	2461	2397	2432	1139
35°	1919	1913	1891	1851	1846	1175
45°	834	948	950	63	44	646
55°	127	136	38	14	8	128
65°	42	36	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	49	186	238	158	34
115°	57	69	161	334	390	56
125°	81	92	151	265	313	72
135°	101	112	152	218	250	78
145°	119	130	153	190	210	75
155°	140	145	156	172	180	64
165°	155	157	161	165	168	44
175°	164	165	164	163	162	15
180°	164	164	164	164	164	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2766.3	2808.1	2793.2	2792.2	2817.0
5°	2758.4	2806.8	2798.0	2805.0	2851.5
7.5°	2752.9	2801.6	2801.6	2798.3	2844.7
10°	2754.4	2804.8	2792.1	2787.2	2833.6
12.5°	2754.4	2807.9	2781.0	2768.2	2816.2
15°	2742.6	2800.6	2756.4	2729.6	2770.3
17.5°	2699.8	2762.9	2702.2	2649.9	2683.9
20°	2655.4	2723.2	2651.5	2584.8	2615.8
22.5°	2600.0	2660.0	2581.8	2512.0	2544.5
25°	2491.1	2537.5	2461.4	2396.8	2431.7
27.5°	2353.6	2379.2	2322.4	2260.3	2282.8
30°	2239.6	2259.0	2217.8	2158.7	2170.3
32.5°	2117.6	2130.8	2097.4	2046.2	2056.2
35°	1918.8	1913.0	1891.1	1851.3	1845.5
37.5°	1659.0	1648.9	1634.8	1481.2	1062.2
40°	1459.4	1463.3	1449.5	905.9	685.1
42.5°	1248.7	1272.7	1253.1	616.8	224.2
45°	833.7	947.9	950.5	62.9	43.6
47.5°	450.7	575.0	467.7	39.0	31.7
50°	289.1	360.7	231.7	29.6	23.8
52.5°	206.7	241.2	90.7	23.2	17.4
55°	126.7	136.4	37.6	13.7	7.9
57.5°	75.6	90.0	23.8	5.1	2.0
60°	53.5	63.1	15.8	2.0	2.0
62.5°	47.1	47.5	11.1	2.0	2.0
65°	41.6	35.8	2.0	2.0	2.0
67.5°	36.4	26.0	2.0	2.0	2.0
70°	31.7	18.1	2.0	2.0	2.0
72.5°	28.5	11.9	2.0	2.0	2.0
75°	23.8	4.4	2.0	2.0	2.0
77.5°	19.0	2.4	2.0	1.6	1.6
80°	15.8	2.3	2.0	0.0	0.0
82.5°	12.7	2.2	0.4	0.0	0.0
85°	7.9	0.2	0.0	0.0	0.0
87.5°	3.2	0.3	0.4	0.6	0.6
90°	0.0	1.0	2.1	3.1	3.1
92.5°	2.5	3.5	4.5	6.4	7.2
95°	8.2	15.3	8.2	9.3	11.3
97.5°	14.6	29.3	60.5	17.9	15.4
100°	19.6	36.7	121.5	35.8	23.7
102.5°	24.5	42.4	164.3	94.3	51.7
105°	31.9	49.0	186.3	238.0	157.5
107.5°	39.3	52.2	177.9	346.4	324.4
110°	44.3	56.3	172.9	364.0	391.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	61.3	168.0	353.7	399.4
115°	56.6	68.7	160.6	333.8	390.1
117.5°	64.2	76.1	158.7	312.2	370.1
120°	70.0	81.1	155.4	295.8	356.1
122.5°	74.1	86.0	151.3	281.7	337.2
125°	81.3	92.4	151.3	264.6	312.9
127.5°	87.3	98.6	151.5	244.8	292.5
130°	90.6	102.7	152.3	231.6	276.9
132.5°	94.7	106.8	152.3	225.7	262.9
135°	100.9	111.9	152.3	217.9	250.1
137.5°	106.0	117.9	152.3	209.4	237.0
140°	110.1	121.2	152.3	204.4	229.5
142.5°	114.3	124.5	153.2	198.6	222.1
145°	119.4	129.5	153.4	189.9	210.0
147.5°	125.6	134.4	154.6	183.6	199.1
150°	129.7	137.7	155.4	179.4	192.5
152.5°	133.8	141.1	155.4	176.1	186.7
155°	140.0	145.0	156.5	172.1	180.1
157.5°	144.9	149.8	157.7	169.6	175.4
160°	148.2	152.3	158.5	167.9	172.9
162.5°	150.7	154.7	159.3	167.0	170.5
165°	155.4	157.4	160.6	164.8	167.8
167.5°	158.1	159.9	161.6	163.7	165.5
170°	160.6	161.6	161.6	163.7	164.7
172.5°	161.4	163.2	162.4	162.9	163.9
175°	163.7	164.7	163.7	162.6	161.6
177.5°	163.7	164.5	163.7	163.6	162.8
180°	163.7	163.7	163.7	163.7	163.7



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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	5.14	6.02	5.81	6.67	7.42	0.00	0.00	0.00	0.00	0.00
	3H	5.59	6.36	6.27	7.03	7.81	0.00	0.00	0.00	0.00	0.00
	4H	5.75	6.48	6.45	7.15	7.95	0.00	0.00	0.00	0.00	0.00
	6H	5.94	6.60	6.65	7.29	8.10	0.00	0.00	0.00	0.00	0.00
	8H	6.03	6.65	6.75	7.35	8.17	0.00	0.00	0.00	0.00	0.00
	12H	6.10	6.69	6.82	7.38	8.22	0.00	0.00	0.00	0.00	0.00
4H	2H	4.85	5.57	5.56	6.25	7.05	0.00	0.00	0.00	0.00	0.00
	3H	5.34	5.92	6.05	6.64	7.45	0.00	0.00	0.00	0.00	0.00
	4H	5.51	6.04	6.24	6.76	7.61	0.00	0.00	0.00	0.00	0.00
	6H	5.74	6.20	6.49	6.94	7.80	0.00	0.00	0.00	0.00	0.00
	8H	5.86	6.28	6.61	7.02	7.89	0.00	0.00	0.00	0.00	0.00
	12H	5.97	6.34	6.74	7.11	7.98	0.00	0.00	0.00	0.00	0.00
8H	4H	5.34	5.76	6.09	6.50	7.36	0.00	0.00	0.00	0.00	0.00
	6H	5.57	5.91	6.35	6.69	7.56	0.00	0.00	0.00	0.00	0.00
	8H	5.70	6.00	6.49	6.79	7.67	0.00	0.00	0.00	0.00	0.00
	12H	5.84	6.11	6.63	6.87	7.83	0.00	0.00	0.00	0.00	0.00
12H	4H	5.27	5.64	6.04	6.41	7.28	0.00	0.00	0.00	0.00	0.00
	6H	5.51	5.81	6.30	6.59	7.48	0.00	0.00	0.00	0.00	0.00
	8H	5.64	5.90	6.43	6.67	7.63	0.00	0.00	0.00	0.00	0.00