

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: P621923

Luminaire Tested: VLT-BB-M-025U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621923  
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-125D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
BLACK BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

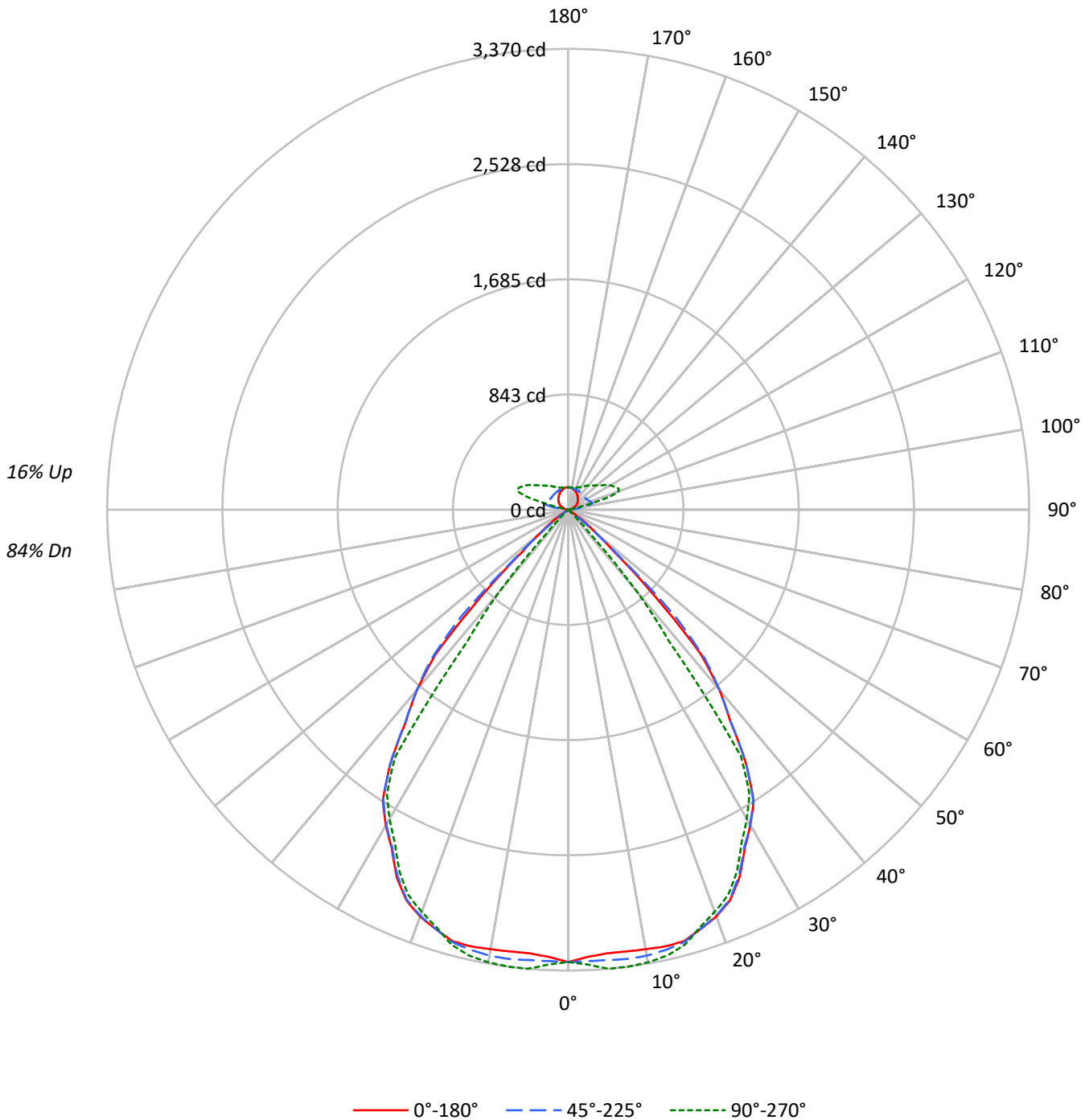
Lumens per Lamp: N/A  
Luminaire Lumens: 5434.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	50	30	10	50	30	10	0																			
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	109	106	103	100	105	102	99	97	95	93	91	88	87	86	82	81	80	77																												
2	102	97	92	88	98	94	89	86	88	84	82	82	80	78	77	75	74	71																												
3	96	89	83	79	93	86	81	77	81	77	74	76	73	70	72	70	67	65																												
4	90	82	75	71	87	79	74	69	75	70	67	71	67	64	67	64	62	60																												
5	85	75	69	64	82	73	67	63	69	64	61	66	62	59	63	59	57	55																												
6	79	69	63	58	77	68	62	57	64	59	55	62	57	54	59	55	52	50																												
7	75	64	58	53	72	63	57	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	46	51	47	44	43																												
9	66	56	49	45	64	54	48	44	52	47	43	50	45	42	48	44	41	39																												
10	63	52	45	41	61	51	45	41	49	44	40	47	42	39	45	41	38	37																												

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

	0°	45°	90°
0°	23739	23739	23739
5°	23456	23812	24274
10°	23781	24123	24483
15°	24265	24320	24466
20°	24170	24132	23906
25°	23478	23380	23107
30°	22077	22035	21627
35°	19838	19860	19299
40°	16107	16107	7371
45°	9263	11266	150
50°	2919	2699	137
55°	1018	216	124
60°	70	142	142
65°	42	126	126
70°	52	155	155
75°	0	136	136
80°	0	202	202
85°	0	206	206

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11266 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.1	5.8
10°-20°	922.4	17.0
20°-30°	1347.5	24.8
30°-40°	1334.6	24.6
40°-50°	558.7	10.3
50°-60°	59.8	1.1
60°-70°	8.4	0.2
70°-80°	5.0	0.1
80°-90°	2.8	0.1
90°-100°	20.1	0.4
100°-110°	143.4	2.6
110°-120°	194.7	3.6
120°-130°	158.4	2.9
130°-140°	127.4	2.3
140°-150°	100.5	1.8
150°-160°	73.5	1.4
160°-170°	45.6	0.8
170°-180°	15.6	0.3
0°-30°	2586.1	47.6
0°-40°	3920.6	72.1
0°-60°	4539.1	83.5
0°-90°	4555.3	83.8
90°-120°	358.2	6.6
90°-150°	744.5	13.7
90°-180°	879.0	16.2
0°-180°	5434.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3256	3314	3306	3314	3370	311
15°	3266	3334	3274	3250	3293	918
25°	2965	3016	2953	2882	2918	1354
35°	2265	2270	2267	2222	2203	1389
45°	913	1084	1110	22	15	716
55°	81	108	17	12	10	91
65°	2	10	7	7	7	3
75°	0	5	5	5	5	0
85°	0	2	2	2	2	0
90°	0	1	2	3	3	0
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°	3308.1	3308.1	3308.1	3308.1	3308.1
2.5°	3272.6	3318.9	3304.2	3300.9	3329.9
5°	3256.3	3314.2	3305.7	3314.3	3369.8
7.5°	3257.8	3311.4	3314.6	3314.3	3369.8
10°	3263.7	3319.2	3310.6	3304.5	3360.0
12.5°	3271.6	3329.0	3296.8	3286.7	3340.2
15°	3266.2	3333.7	3273.6	3249.9	3293.3
17.5°	3216.4	3294.5	3215.4	3169.7	3201.6
20°	3165.1	3247.1	3160.1	3096.8	3130.5
22.5°	3092.0	3168.3	3085.1	3012.0	3051.6
25°	2965.2	3015.9	2952.9	2882.2	2918.4
27.5°	2792.6	2821.5	2785.7	2722.0	2744.2
30°	2664.3	2683.6	2659.3	2595.5	2610.0
32.5°	2522.2	2531.8	2517.3	2459.2	2465.9
35°	2264.6	2269.5	2267.1	2222.3	2203.0
37.5°	1946.4	1956.1	1950.4	1755.4	1211.3
40°	1719.4	1729.1	1719.4	1028.2	786.9
42.5°	1435.3	1497.0	1480.6	701.1	224.5
45°	912.8	1084.0	1110.1	22.0	14.8
47.5°	451.0	635.7	522.0	14.3	14.3
50°	261.5	374.9	241.8	12.3	12.3
52.5°	174.7	228.2	70.1	12.3	12.3
55°	81.4	107.9	17.3	12.3	9.9
57.5°	28.6	54.2	11.8	9.9	9.9
60°	4.9	26.6	9.9	9.9	9.9
62.5°	3.0	15.0	9.9	7.9	9.9
65°	2.5	9.7	7.4	7.4	7.4
67.5°	2.5	7.3	7.4	7.4	7.4
70°	2.5	7.3	7.4	7.4	7.4
72.5°	0.5	5.3	5.4	5.5	7.4
75°	0.0	4.8	4.9	4.9	4.9
77.5°	0.0	4.8	4.9	4.9	4.9
80°	0.0	4.8	4.9	4.9	4.9
82.5°	0.0	2.9	3.0	3.0	4.9
85°	0.0	2.4	2.5	2.5	2.5
87.5°	0.0	2.1	2.4	2.6	2.6
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	1.33	2.21	1.96	2.83	3.53	0.00	0.00	0.00	0.00	0.00
	3H	1.20	1.98	1.85	2.61	3.35	0.00	0.00	0.00	0.00	0.00
	4H	1.11	1.84	1.78	2.48	3.24	0.00	0.00	0.00	0.00	0.00
	6H	1.01	1.68	1.69	2.33	3.10	0.00	0.00	0.00	0.00	0.00
	8H	0.96	1.58	1.65	2.25	3.03	0.00	0.00	0.00	0.00	0.00
	12H	0.90	1.50	1.59	2.16	2.95	0.00	0.00	0.00	0.00	0.00
4H	2H	1.07	1.79	1.74	2.44	3.19	0.00	0.00	0.00	0.00	0.00
	3H	0.99	1.58	1.68	2.27	3.04	0.00	0.00	0.00	0.00	0.00
	4H	0.92	1.45	1.62	2.14	2.95	0.00	0.00	0.00	0.00	0.00
	6H	0.87	1.32	1.59	2.03	2.85	0.00	0.00	0.00	0.00	0.00
	8H	0.82	1.24	1.54	1.95	2.77	0.00	0.00	0.00	0.00	0.00
	12H	0.76	1.13	1.50	1.87	2.70	0.00	0.00	0.00	0.00	0.00
8H	4H	0.82	1.25	1.55	1.95	2.78	0.00	0.00	0.00	0.00	0.00
	6H	0.85	1.19	1.60	1.94	2.77	0.00	0.00	0.00	0.00	0.00
	8H	0.85	1.15	1.62	1.91	2.75	0.00	0.00	0.00	0.00	0.00
	12H	0.83	1.10	1.59	1.84	2.75	0.00	0.00	0.00	0.00	0.00
12H	4H	0.78	1.15	1.52	1.89	2.71	0.00	0.00	0.00	0.00	0.00
	6H	0.83	1.14	1.60	1.90	2.74	0.00	0.00	0.00	0.00	0.00
	8H	0.87	1.14	1.63	1.88	2.79	0.00	0.00	0.00	0.00	0.00