

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: P621950

Luminaire Tested: VLT-BB-M-0U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621950  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-050D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
BLACK BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

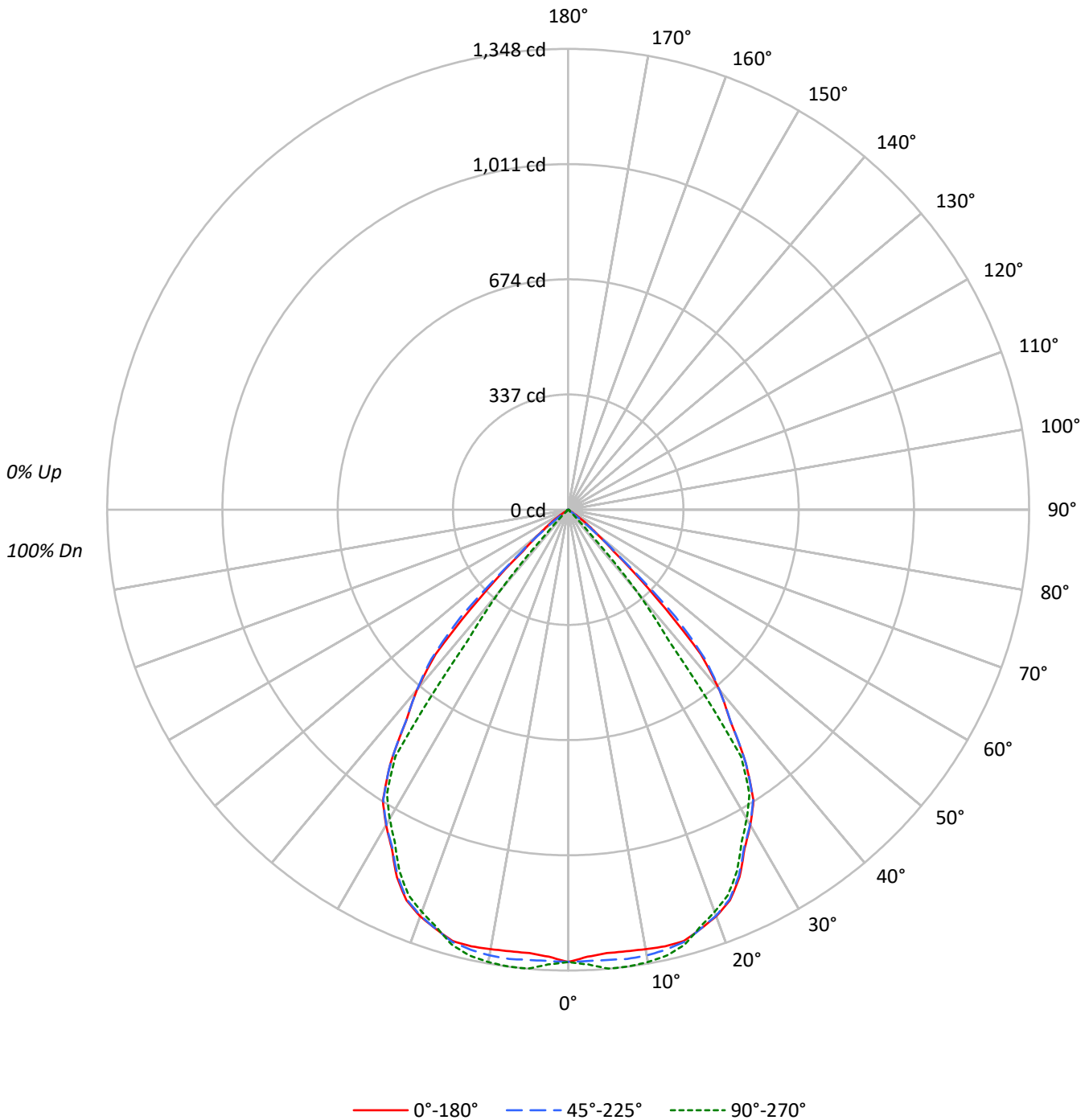
Lumens per Lamp: N/A  
Luminaire Lumens: 1821.4 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.3  
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				100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65				65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60				60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55
8	75	64	58	53	74	64	57	53	63	57	53	62	56	53	61	56	52	51				51
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	49	47				47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44				44

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

	0°	45°	90°
0°	9492	9492	9492
5°	9379	9521	9707
10°	9510	9646	9790
15°	9703	9725	9783
20°	9665	9649	9559
25°	9388	9349	9240
30°	8828	8811	8648
35°	7933	7941	7717
40°	6441	6441	2948
45°	3704	4505	60
50°	1168	1080	55
55°	408	86	49
60°	29	56	56
65°	17	51	51
70°	21	63	63
75°	0	55	55
80°	0	83	83
85°	0	82	82

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 4505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	6.9
10°-20°	368.9	20.3
20°-30°	538.8	29.6
30°-40°	533.6	29.3
40°-50°	223.4	12.3
50°-60°	23.9	1.3
60°-70°	3.4	0.2
70°-80°	2.0	0.1
80°-90°	1.0	0.1
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°	1034.1	56.8
0°-40°	1567.7	86.1
0°-60°	1815.0	99.6
0°-90°	1821.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1302	1325	1322	1325	1348	125
15°	1306	1333	1309	1300	1317	367
25°	1186	1206	1181	1152	1167	541
35°	906	908	906	889	881	555
45°	365	434	444	9	6	286
55°	33	43	7	5	4	37
65°	1	4	3	3	3	1
75°	0	2	2	2	2	0
85°	0	1	1	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1308.6	1327.1	1321.2	1319.9	1331.5
5°	1302.1	1325.3	1321.8	1325.3	1347.5
7.5°	1302.7	1324.1	1325.4	1325.3	1347.5
10°	1305.1	1327.3	1323.8	1321.4	1343.5
12.5°	1308.2	1331.2	1318.3	1314.2	1335.6
15°	1306.1	1333.1	1309.0	1299.5	1316.9
17.5°	1286.1	1317.4	1285.7	1267.5	1280.2
20°	1265.6	1298.4	1263.6	1238.3	1251.8
22.5°	1236.4	1266.9	1233.6	1204.4	1220.2
25°	1185.7	1206.0	1180.8	1152.5	1167.0
27.5°	1116.7	1128.2	1113.9	1088.4	1097.3
30°	1065.4	1073.1	1063.4	1037.9	1043.7
32.5°	1008.5	1012.4	1006.6	983.4	986.1
35°	905.6	907.5	906.5	888.6	880.9
37.5°	778.3	782.2	779.9	701.9	484.3
40°	687.6	691.4	687.6	411.1	314.7
42.5°	573.9	598.6	592.1	280.4	89.8
45°	365.0	433.5	443.9	8.8	5.9
47.5°	180.3	254.2	208.7	5.7	5.7
50°	104.6	149.9	96.7	4.9	4.9
52.5°	69.8	91.3	28.0	4.9	4.9
55°	32.6	43.2	6.9	4.9	3.9
57.5°	11.4	21.7	4.7	3.9	3.9
60°	2.0	10.7	3.9	3.9	3.9
62.5°	1.2	6.0	3.9	3.2	3.9
65°	1.0	3.9	3.0	3.0	3.0
67.5°	1.0	2.9	3.0	3.0	3.0
70°	1.0	2.9	3.0	3.0	3.0
72.5°	0.2	2.1	2.2	2.2	3.0
75°	0.0	1.9	2.0	2.0	2.0
77.5°	0.0	1.9	2.0	2.0	2.0
80°	0.0	1.9	2.0	2.0	2.0
82.5°	0.0	1.2	1.2	1.2	2.0
85°	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.8	0.8	0.8	0.8
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	0.00	0.57	0.00	0.88	1.19	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.31	0.00	0.65	1.01	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.16	0.00	0.51	0.90	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.36	0.76	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.28	0.69	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.19	0.62	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.12	0.00	0.47	0.86	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.29	0.70	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.16	0.60	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.04	0.52	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00