

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: P621955

Luminaire Tested: VLT-BB-M-0U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621955
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-100D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

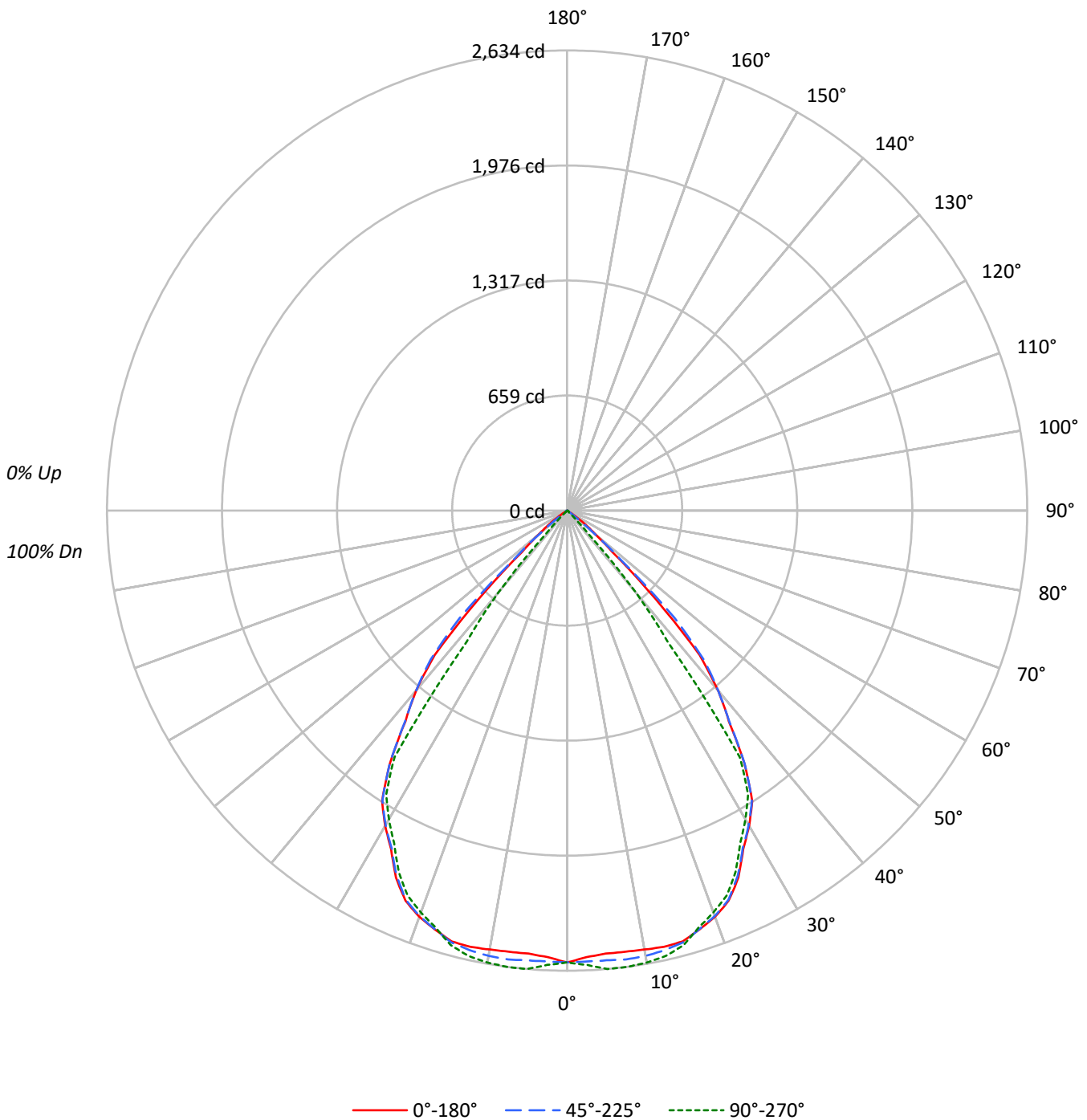
Lumens per Lamp: N/A
Luminaire Lumens: 3560.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): 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	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°	18558	18558	18558
5°	18337	18615	18976
10°	18591	18858	19139
15°	18969	19012	19126
20°	18895	18865	18689
25°	18353	18277	18064
30°	17258	17226	16906
35°	15509	15526	15086
40°	12592	12592	5763
45°	7241	8807	118
50°	2282	2110	107
55°	796	169	96
60°	56	111	111
65°	32	98	98
70°	40	122	122
75°	0	108	108
80°	0	161	161
85°	0	156	156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	6.9
10°-20°	721.1	20.3
20°-30°	1053.4	29.6
30°-40°	1043.3	29.3
40°-50°	436.8	12.3
50°-60°	46.7	1.3
60°-70°	6.6	0.2
70°-80°	4.0	0.1
80°-90°	1.9	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°	2021.6	56.8
0°-40°	3064.9	86.1
0°-60°	3548.4	99.7
0°-90°	3560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2546	2591	2584	2591	2634	243
15°	2553	2606	2559	2541	2574	717
25°	2318	2358	2308	2253	2281	1059
35°	1770	1774	1772	1737	1722	1086
45°	714	847	868	17	12	560
55°	64	84	14	10	8	71
65°	2	8	6	6	6	2
75°	0	4	4	4	4	0
85°	0	2	2	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.1	2586.1	2586.1	2586.1	2586.1
2.5°	2558.3	2594.5	2583.0	2580.5	2603.1
5°	2545.6	2590.9	2584.2	2591.0	2634.3
7.5°	2546.8	2588.6	2591.1	2591.0	2634.3
10°	2551.4	2594.8	2588.0	2583.2	2626.6
12.5°	2557.6	2602.4	2577.2	2569.3	2611.2
15°	2553.3	2606.1	2559.1	2540.6	2574.5
17.5°	2514.4	2575.5	2513.6	2477.9	2502.8
20°	2474.3	2538.4	2470.4	2420.9	2447.3
22.5°	2417.2	2476.8	2411.8	2354.6	2385.5
25°	2318.0	2357.6	2308.4	2253.1	2281.4
27.5°	2183.1	2205.7	2177.7	2127.9	2145.3
30°	2082.8	2097.9	2078.9	2029.0	2040.3
32.5°	1971.7	1979.2	1967.8	1922.4	1927.7
35°	1770.4	1774.1	1772.3	1737.2	1722.1
37.5°	1521.6	1529.1	1524.7	1372.3	946.9
40°	1344.2	1351.7	1344.2	803.8	615.2
42.5°	1122.0	1170.3	1157.5	548.1	175.5
45°	713.5	847.4	867.8	17.2	11.6
47.5°	352.5	497.0	408.1	11.2	11.2
50°	204.4	293.0	189.0	9.6	9.6
52.5°	136.5	178.4	54.8	9.6	9.6
55°	63.6	84.4	13.5	9.6	7.7
57.5°	22.4	42.4	9.3	7.7	7.7
60°	3.9	20.8	7.7	7.7	7.7
62.5°	2.3	11.7	7.7	6.2	7.7
65°	1.9	7.6	5.8	5.8	5.8
67.5°	1.9	5.7	5.8	5.8	5.8
70°	1.9	5.7	5.8	5.8	5.8
72.5°	0.4	4.2	4.2	4.3	5.8
75°	0.0	3.8	3.9	3.9	3.9
77.5°	0.0	3.8	3.9	3.9	3.9
80°	0.0	3.8	3.9	3.9	3.9
82.5°	0.0	2.3	2.3	2.3	3.9
85°	0.0	1.9	1.9	1.9	1.9
87.5°	0.0	1.5	1.5	1.5	1.5
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	1.82	2.88	2.18	3.19	3.51	0.00	0.00	0.00	0.00	0.00
	3H	1.70	2.63	2.08	2.96	3.33	0.00	0.00	0.00	0.00	0.00
	4H	1.62	2.48	2.02	2.83	3.22	0.00	0.00	0.00	0.00	0.00
	6H	1.52	2.31	1.94	2.68	3.08	0.00	0.00	0.00	0.00	0.00
	8H	1.47	2.21	1.90	2.60	3.01	0.00	0.00	0.00	0.00	0.00
	12H	1.41	2.12	1.85	2.50	2.93	0.00	0.00	0.00	0.00	0.00
4H	2H	1.57	2.43	1.98	2.79	3.18	0.00	0.00	0.00	0.00	0.00
	3H	1.51	2.20	1.92	2.61	3.01	0.00	0.00	0.00	0.00	0.00
	4H	1.43	2.05	1.87	2.47	2.92	0.00	0.00	0.00	0.00	0.00
	6H	1.38	1.91	1.85	2.36	2.84	0.00	0.00	0.00	0.00	0.00
	8H	1.33	1.83	1.81	2.28	2.75	0.00	0.00	0.00	0.00	0.00
	12H	1.28	1.71	1.77	2.20	2.67	0.00	0.00	0.00	0.00	0.00
8H	4H	1.34	1.83	1.81	2.28	2.76	0.00	0.00	0.00	0.00	0.00
	6H	1.36	1.76	1.87	2.26	2.75	0.00	0.00	0.00	0.00	0.00
	8H	1.36	1.71	1.89	2.24	2.73	0.00	0.00	0.00	0.00	0.00
	12H	1.35	1.66	1.87	2.16	2.74	0.00	0.00	0.00	0.00	0.00
12H	4H	1.30	1.73	1.79	2.22	2.69	0.00	0.00	0.00	0.00	0.00
	6H	1.35	1.70	1.88	2.22	2.72	0.00	0.00	0.00	0.00	0.00
	8H	1.39	1.70	1.91	2.20	2.78	0.00	0.00	0.00	0.00	0.00