

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: P621956

Luminaire Tested: VLT-BB-M-0U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621956
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-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

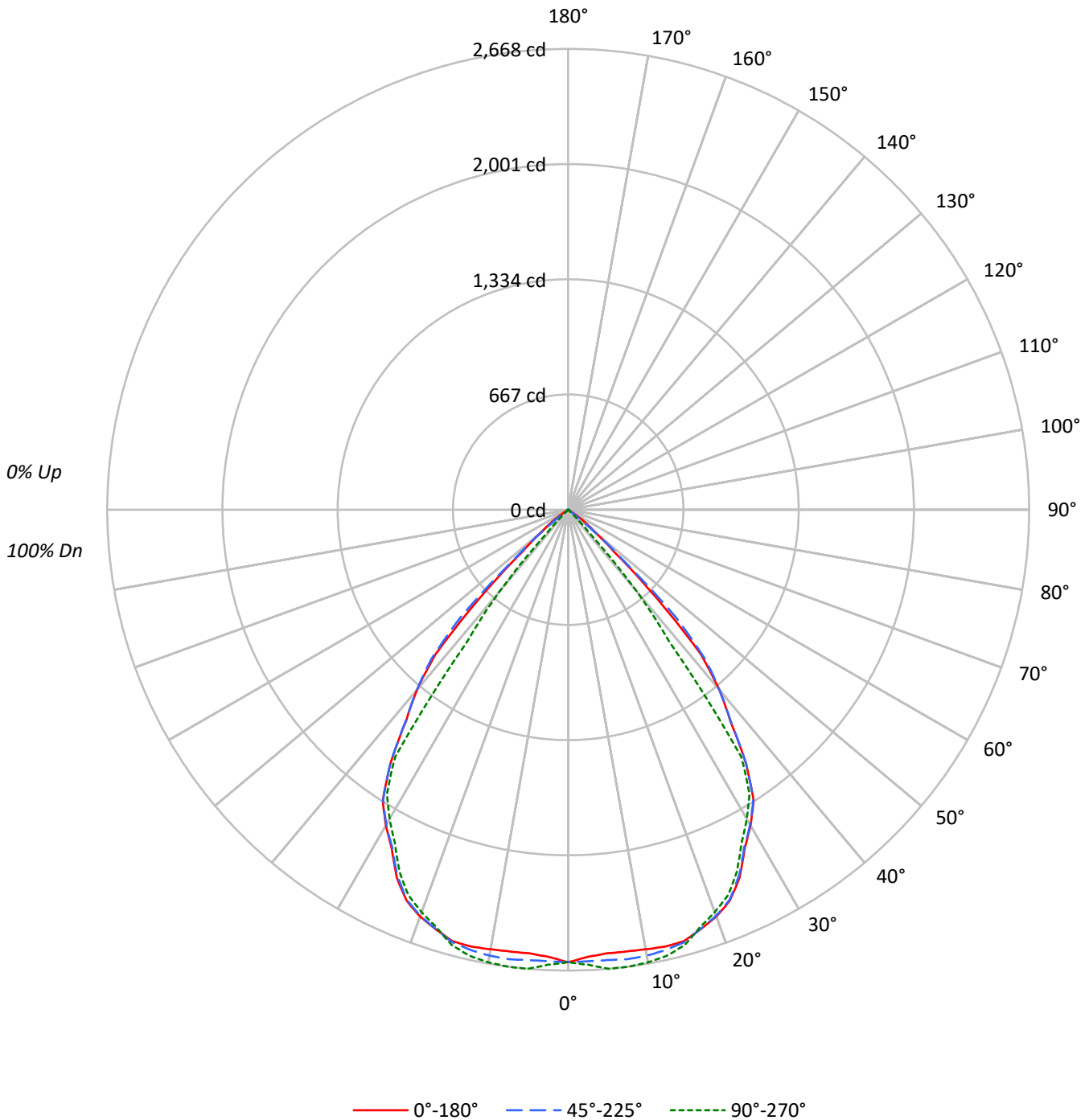
Lumens per Lamp: N/A
Luminaire Lumens: 3606.7 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P621956
CATALOG NUMBER: VLT-BB-M-OU-100D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621956

CATALOG NUMBER: VLT-BB-M-OU-100D-935-UNV-STD-W-4

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°	18797	18797	18797
5°	18573	18855	19221
10°	18831	19101	19386
15°	19213	19257	19373
20°	19138	19108	18929
25°	18590	18513	18296
30°	17480	17448	17124
35°	15709	15725	15280
40°	12754	12754	5837
45°	7334	8920	119
50°	2312	2137	109
55°	807	171	98
60°	56	112	112
65°	34	100	100
70°	42	124	124
75°	0	108	108
80°	0	161	161
85°	0	165	165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8920 cd/sqm



TEST NUMBER: P621956

CATALOG NUMBER: VLT-BB-M-OU-100D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	6.9
10°-20°	730.4	20.3
20°-30°	1067.0	29.6
30°-40°	1056.7	29.3
40°-50°	442.4	12.3
50°-60°	47.3	1.3
60°-70°	6.7	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°	2047.7	56.8
0°-40°	3104.4	86.1
0°-60°	3594.1	99.7
0°-90°	3606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2619	2619	2619	2619	2619	
5°	2578	2624	2618	2624	2668	247
15°	2586	2640	2592	2573	2608	727
25°	2348	2388	2338	2282	2311	1072
35°	1793	1797	1795	1760	1744	1100
45°	723	858	879	17	12	567
55°	64	86	14	10	8	72
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	



TEST NUMBER: P621956

CATALOG NUMBER: VLT-BB-M-OU-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2619.4	2619.4	2619.4	2619.4	2619.4
2.5°	2591.3	2628.0	2616.3	2613.7	2636.6
5°	2578.4	2624.3	2617.5	2624.3	2668.3
7.5°	2579.6	2622.0	2624.5	2624.3	2668.3
10°	2584.3	2628.2	2621.4	2616.5	2660.5
12.5°	2590.5	2636.0	2610.5	2602.4	2644.8
15°	2586.2	2639.7	2592.1	2573.3	2607.7
17.5°	2546.8	2608.7	2546.0	2509.8	2535.1
20°	2506.1	2571.1	2502.2	2452.1	2478.8
22.5°	2448.3	2508.7	2442.9	2385.0	2416.3
25°	2347.9	2388.0	2338.2	2282.2	2310.8
27.5°	2211.2	2234.1	2205.7	2155.3	2172.9
30°	2109.6	2124.9	2105.7	2055.2	2066.6
32.5°	1997.1	2004.7	1993.2	1947.2	1952.6
35°	1793.2	1797.0	1795.1	1759.6	1744.3
37.5°	1541.2	1548.8	1544.3	1390.0	959.1
40°	1361.5	1369.1	1361.5	814.1	623.1
42.5°	1136.5	1185.4	1172.4	555.2	177.8
45°	722.7	858.3	879.0	17.4	11.7
47.5°	357.1	503.4	413.3	11.3	11.3
50°	207.1	296.8	191.4	9.8	9.8
52.5°	138.3	180.7	55.5	9.8	9.8
55°	64.5	85.5	13.7	9.7	7.8
57.5°	22.7	42.9	9.4	7.8	7.8
60°	3.9	21.1	7.8	7.8	7.8
62.5°	2.3	11.9	7.8	6.3	7.8
65°	2.0	7.7	5.9	5.9	5.9
67.5°	2.0	5.8	5.9	5.9	5.9
70°	2.0	5.8	5.9	5.9	5.9
72.5°	0.4	4.2	4.3	4.3	5.9
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	2.4	3.9
85°	0.0	1.9	2.0	2.0	2.0
87.5°	0.0	1.5	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P621956

CATALOG NUMBER: VLT-BB-M-0U-100D-935-UNV-STD-W-4

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	1.87	2.93	2.23	3.24	3.56	0.00	0.00	0.00	0.00	0.00
	3H	1.75	2.68	2.13	3.01	3.38	0.00	0.00	0.00	0.00	0.00
	4H	1.66	2.53	2.07	2.88	3.27	0.00	0.00	0.00	0.00	0.00
	6H	1.57	2.36	1.99	2.73	3.13	0.00	0.00	0.00	0.00	0.00
	8H	1.52	2.26	1.95	2.65	3.06	0.00	0.00	0.00	0.00	0.00
	12H	1.46	2.17	1.90	2.55	2.98	0.00	0.00	0.00	0.00	0.00
4H	2H	1.62	2.48	2.03	2.84	3.22	0.00	0.00	0.00	0.00	0.00
	3H	1.55	2.25	1.97	2.66	3.06	0.00	0.00	0.00	0.00	0.00
	4H	1.48	2.10	1.92	2.52	2.97	0.00	0.00	0.00	0.00	0.00
	6H	1.43	1.96	1.90	2.41	2.88	0.00	0.00	0.00	0.00	0.00
	8H	1.38	1.87	1.86	2.32	2.80	0.00	0.00	0.00	0.00	0.00
	12H	1.33	1.75	1.82	2.24	2.72	0.00	0.00	0.00	0.00	0.00
8H	4H	1.39	1.88	1.86	2.33	2.80	0.00	0.00	0.00	0.00	0.00
	6H	1.41	1.80	1.92	2.30	2.79	0.00	0.00	0.00	0.00	0.00
	8H	1.40	1.76	1.93	2.28	2.77	0.00	0.00	0.00	0.00	0.00
	12H	1.39	1.70	1.91	2.20	2.78	0.00	0.00	0.00	0.00	0.00
12H	4H	1.35	1.77	1.84	2.26	2.74	0.00	0.00	0.00	0.00	0.00
	6H	1.39	1.74	1.92	2.26	2.76	0.00	0.00	0.00	0.00	0.00
	8H	1.43	1.74	1.95	2.24	2.82	0.00	0.00	0.00	0.00	0.00