

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: P621928

Luminaire Tested: VLT-BB-M-050U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621928
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-050U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

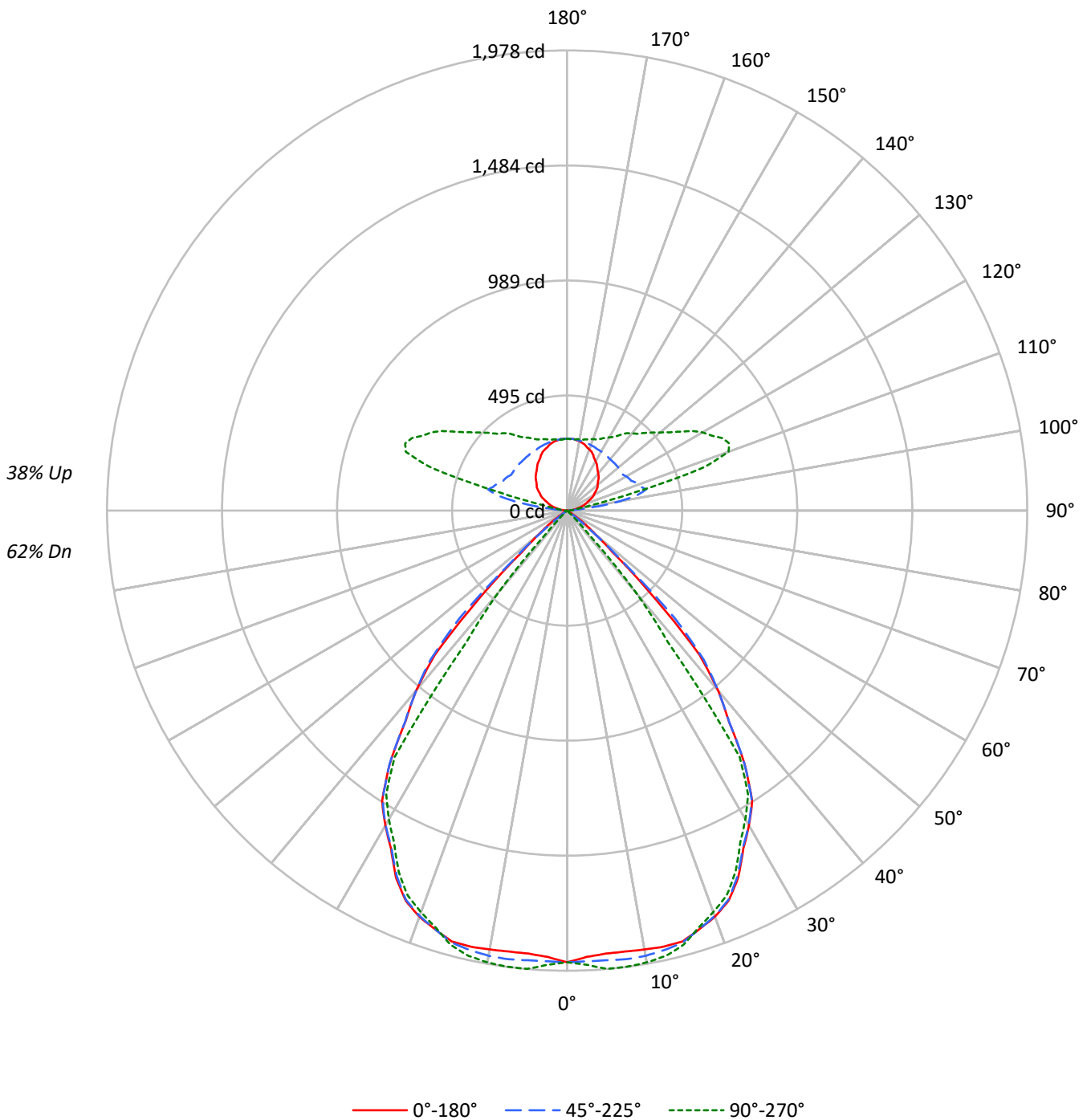
Lumens per Lamp: N/A
Luminaire Lumens: 4333.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 44.1
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



TEST NUMBER: P621928
CATALOG NUMBER: VLT-BB-M-050U-075D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621928

CATALOG NUMBER: VLT-BB-M-050U-075D-930-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	0
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90		78	78	78		67	67	67	62
1	103	100	96	94	96	94	91	89	83	81	79		72	71	70		63	62	61	57
2	96	90	85	81	90	85	81	77	76	73	70		67	65	63		59	57	56	52
3	90	82	76	71	84	78	72	68	69	66	62		62	59	57		55	53	51	48
4	84	75	68	63	79	71	65	61	64	59	56		57	54	51		51	49	47	44
5	78	68	61	56	73	65	59	54	59	54	51		53	49	47		48	45	43	40
6	73	63	56	51	69	60	54	49	54	49	46		49	45	43		44	42	39	37
7	68	58	51	46	64	55	49	45	50	45	42		46	42	39		42	39	36	34
8	64	53	46	42	61	51	45	41	47	42	38		43	39	36		39	36	33	31
9	60	49	43	38	57	47	41	37	43	38	35		40	36	33		36	33	31	29
10	57	46	39	35	54	44	38	34	41	36	32		37	33	30		34	31	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13932	13932	13932
5°	13766	13975	14246
10°	13957	14158	14369
15°	14241	14273	14359
20°	14185	14163	14031
25°	13779	13722	13562
30°	12956	12932	12693
35°	11643	11655	11326
40°	9453	9453	4326
45°	5436	6612	88
50°	1714	1584	80
55°	598	126	73
60°	42	83	83
65°	24	73	73
70°	29	90	90
75°	0	80	80
80°	0	120	120
85°	0	115	115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6612 cd/sqm



TEST NUMBER: P621928

CATALOG NUMBER: VLT-BB-M-050U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	4.3
10°-20°	541.4	12.5
20°-30°	790.8	18.2
30°-40°	783.2	18.1
40°-50°	327.9	7.6
50°-60°	35.1	0.8
60°-70°	4.9	0.1
70°-80°	3.0	0.1
80°-90°	2.1	0.0
90°-100°	38.0	0.9
100°-110°	270.7	6.2
110°-120°	367.5	8.5
120°-130°	299.1	6.9
130°-140°	240.5	5.6
140°-150°	189.6	4.4
150°-160°	138.7	3.2
160°-170°	86.1	2.0
170°-180°	29.4	0.7
0°-30°	1517.7	35.0
0°-40°	2300.9	53.1
0°-60°	2663.9	61.5
0°-90°	2673.9	61.7
90°-120°	676.1	15.6
90°-150°	1405.3	32.4
90°-180°	1659.0	38.3
0°-180°	4333.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1911	1945	1940	1945	1978	183
15°	1917	1956	1921	1907	1933	538
25°	1740	1770	1733	1692	1713	795
35°	1329	1332	1330	1304	1293	815
45°	536	636	652	13	9	420
55°	48	63	10	7	6	54
65°	1	6	4	4	4	2
75°	0	3	3	3	3	0
85°	0	1	1	1	1	0
90°	0	2	4	6	6	1
95°	16	29	16	18	21	17
105°	60	92	352	449	297	63
115°	107	130	303	630	736	106
125°	154	174	286	500	591	136
135°	190	211	288	411	472	146
145°	225	244	290	358	396	142
155°	264	274	295	325	340	121
165°	293	297	303	311	317	82
175°	309	311	309	307	305	29
180°	309	309	309	309	309	



TEST NUMBER: P621928

CATALOG NUMBER: VLT-BB-M-050U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.5	1941.5	1941.5	1941.5	1941.5
2.5°	1920.7	1947.8	1939.2	1937.3	1954.2
5°	1911.1	1945.1	1940.1	1945.1	1977.7
7.5°	1912.0	1943.4	1945.3	1945.1	1977.7
10°	1915.4	1948.0	1943.0	1939.3	1971.9
12.5°	1920.1	1953.8	1934.8	1928.9	1960.3
15°	1916.9	1956.5	1921.2	1907.3	1932.8
17.5°	1887.6	1933.5	1887.1	1860.3	1879.0
20°	1857.5	1905.7	1854.6	1817.4	1837.3
22.5°	1814.7	1859.4	1810.6	1767.7	1790.9
25°	1740.3	1770.0	1733.0	1691.5	1712.8
27.5°	1638.9	1655.9	1634.9	1597.5	1610.5
30°	1563.6	1575.0	1560.7	1523.3	1531.8
32.5°	1480.2	1485.9	1477.3	1443.3	1447.2
35°	1329.1	1331.9	1330.5	1304.2	1292.9
37.5°	1142.3	1148.0	1144.6	1030.2	710.9
40°	1009.1	1014.8	1009.1	603.4	461.8
42.5°	842.3	878.6	869.0	411.5	131.8
45°	535.7	636.2	651.5	12.9	8.7
47.5°	264.7	373.1	306.4	8.4	8.4
50°	153.5	220.0	141.9	7.2	7.2
52.5°	102.5	133.9	41.1	7.2	7.2
55°	47.8	63.3	10.1	7.2	5.8
57.5°	16.8	31.8	6.9	5.8	5.8
60°	2.9	15.6	5.8	5.8	5.8
62.5°	1.7	8.8	5.8	4.7	5.8
65°	1.4	5.7	4.3	4.3	4.3
67.5°	1.4	4.3	4.3	4.3	4.3
70°	1.4	4.3	4.3	4.3	4.3
72.5°	0.3	3.1	3.2	3.2	4.3
75°	0.0	2.8	2.9	2.9	2.9
77.5°	0.0	2.8	2.9	2.9	2.9
80°	0.0	2.8	2.9	2.9	2.9
82.5°	0.0	1.7	1.7	1.8	2.9
85°	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	1.5	1.9	2.3	2.3
90°	0.0	1.9	3.9	5.8	5.8
92.5°	4.7	6.6	8.5	12.1	13.6
95°	15.5	28.8	15.5	17.6	21.4
97.5°	27.6	55.3	114.2	33.7	29.1
100°	36.9	69.2	229.3	67.5	44.7
102.5°	46.2	80.1	310.1	178.1	97.5
105°	60.2	92.5	351.7	449.3	297.3
107.5°	74.2	98.5	335.7	653.8	612.4
110°	83.5	106.3	326.4	687.0	738.3



TEST NUMBER: P621928

CATALOG NUMBER: VLT-BB-M-050U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.9	115.7	317.1	667.6	753.9
115°	106.9	129.7	303.1	630.0	736.4
117.5°	121.2	143.7	299.6	589.3	698.7
120°	132.1	153.0	293.4	558.3	672.3
122.5°	139.9	162.3	285.6	531.6	636.5
125°	153.5	174.4	285.6	499.5	590.7
127.5°	164.8	186.0	286.0	462.1	552.2
130°	171.0	193.8	287.6	437.2	522.7
132.5°	178.8	201.5	287.6	425.9	496.2
135°	190.4	211.3	287.6	411.3	472.1
137.5°	200.1	222.5	287.6	395.2	447.3
140°	207.9	228.8	287.6	385.8	433.3
142.5°	215.7	235.0	289.1	374.8	419.3
145°	225.4	244.4	289.5	358.4	396.4
147.5°	237.0	253.8	291.8	346.5	375.8
150°	244.8	260.0	293.4	338.6	363.3
152.5°	252.6	266.3	293.4	332.3	352.5
155°	264.2	273.7	295.3	324.8	340.0
157.5°	273.6	282.7	297.7	320.1	331.1
160°	279.8	287.4	299.2	316.9	326.4
162.5°	284.4	292.0	300.8	315.3	321.8
165°	293.4	297.2	303.1	311.0	316.7
167.5°	298.4	301.9	305.0	309.0	312.4
170°	303.1	305.0	305.0	309.0	310.9
172.5°	304.7	308.1	306.6	307.4	309.3
175°	308.9	310.8	308.9	306.9	305.0
177.5°	308.9	310.4	308.9	308.9	307.4
180°	308.9	308.9	308.9	308.9	308.9



TEST NUMBER: P621928

CATALOG NUMBER: VLT-BB-M-050U-075D-930-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	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00