

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: P621918

Luminaire Tested: VLT-BB-M-025U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621918
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-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

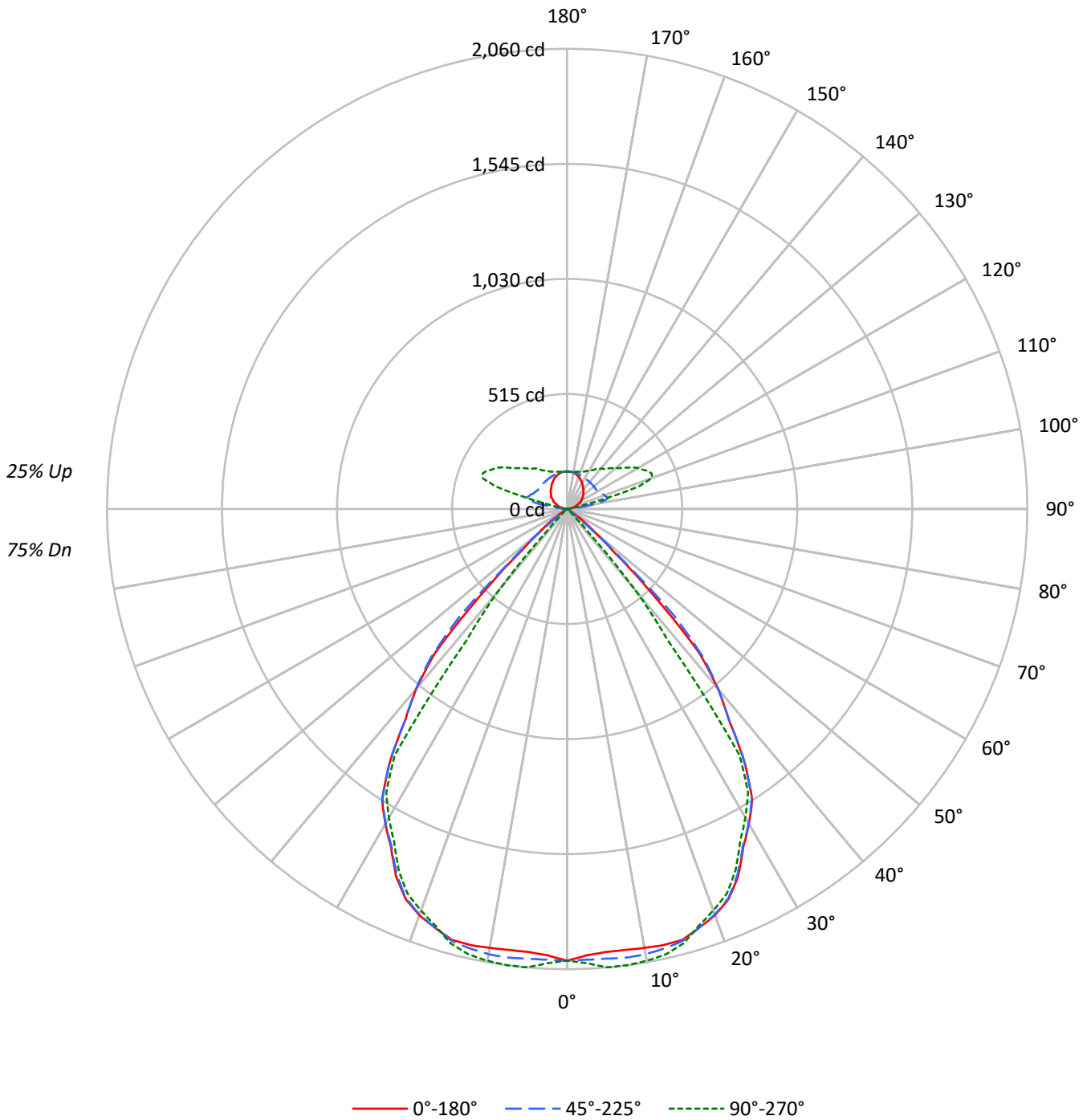
Lumens per Lamp: N/A
Luminaire Lumens: 3688.4 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.1
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



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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	0
RCR																				
0	113	113	113	113	108	108	108	108	97	97	97		88	88	88		80	80	80	75
1	107	103	100	98	102	99	96	94	90	88	87		82	81	80		75	74	73	70
2	100	94	90	86	95	90	86	83	83	80	77		77	74	72		70	69	67	64
3	94	86	80	76	89	83	78	74	77	73	69		71	68	65		66	63	61	59
4	88	79	73	68	84	76	70	66	71	66	63		66	62	59		61	58	56	54
5	82	73	66	61	79	70	64	60	65	61	57		61	57	54		57	54	51	49
6	77	67	60	55	74	65	59	54	61	56	52		57	53	50		53	50	47	45
7	72	62	55	50	69	60	54	49	56	51	47		53	49	45		50	46	44	42
8	68	57	51	46	65	56	49	45	52	47	43		49	45	42		47	43	40	38
9	64	53	47	42	61	52	46	41	49	44	40		46	42	39		44	40	37	36
10	60	50	43	39	58	48	42	38	46	41	37		43	39	36		41	37	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14510	14510	14510
5°	14338	14555	14837
10°	14536	14745	14965
15°	14831	14865	14955
20°	14774	14751	14612
25°	14351	14291	14124
30°	13494	13469	13219
35°	12126	12139	11796
40°	9845	9845	4506
45°	5662	6886	91
50°	1784	1650	84
55°	623	133	75
60°	43	86	86
65°	25	76	76
70°	31	94	94
75°	0	83	83
80°	0	124	124
85°	0	124	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	5.2
10°-20°	563.8	15.3
20°-30°	823.6	22.3
30°-40°	815.7	22.1
40°-50°	341.5	9.3
50°-60°	36.5	1.0
60°-70°	5.1	0.1
70°-80°	3.1	0.1
80°-90°	1.8	0.0
90°-100°	20.7	0.6
100°-110°	147.4	4.0
110°-120°	200.2	5.4
120°-130°	162.9	4.4
130°-140°	131.0	3.6
140°-150°	103.3	2.8
150°-160°	75.5	2.0
160°-170°	46.9	1.3
170°-180°	16.0	0.4
0°-30°	1580.7	42.9
0°-40°	2396.4	65.0
0°-60°	2774.4	75.2
0°-90°	2784.5	75.5
90°-120°	368.3	10.0
90°-150°	765.5	20.8
90°-180°	904.0	24.5
0°-180°	3688.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	1990	2026	2021	2026	2060	190
15°	1996	2038	2001	1986	2013	561
25°	1812	1843	1805	1762	1784	828
35°	1384	1387	1386	1358	1346	849
45°	558	663	678	14	9	438
55°	50	66	11	8	6	56
65°	2	6	4	4	4	2
75°	0	3	3	3	3	0
85°	0	2	2	2	2	0
90°	0	1	2	3	3	0
95°	8	16	8	10	12	9
105°	33	50	192	245	162	35
115°	58	71	165	343	401	58
125°	84	95	156	272	322	74
135°	104	115	157	224	257	80
145°	123	133	158	195	216	77
155°	144	149	161	177	185	66
165°	160	162	165	169	172	45
175°	168	169	168	167	166	16
180°	168	168	168	168	168	



TEST NUMBER: P621918

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.1	2022.1	2022.1	2022.1	2022.1
2.5°	2000.3	2028.7	2019.6	2017.6	2035.3
5°	1990.4	2025.8	2020.6	2025.8	2059.8
7.5°	1991.3	2024.0	2026.0	2025.8	2059.8
10°	1994.9	2028.8	2023.6	2019.8	2053.7
12.5°	1999.7	2034.8	2015.1	2008.9	2041.7
15°	1996.4	2037.7	2000.9	1986.5	2013.0
17.5°	1966.0	2013.7	1965.4	1937.5	1956.9
20°	1934.6	1984.7	1931.6	1892.9	1913.5
22.5°	1890.0	1936.6	1885.7	1841.1	1865.2
25°	1812.5	1843.4	1804.9	1761.7	1783.8
27.5°	1706.9	1724.6	1702.7	1663.8	1677.4
30°	1628.5	1640.3	1625.5	1586.5	1595.3
32.5°	1541.7	1547.5	1538.6	1503.1	1507.3
35°	1384.2	1387.2	1385.7	1358.3	1346.5
37.5°	1189.7	1195.6	1192.1	1073.0	740.4
40°	1051.0	1056.9	1051.0	628.4	481.0
42.5°	877.3	915.0	905.0	428.6	137.2
45°	557.9	662.6	678.5	13.5	9.0
47.5°	275.6	388.6	319.1	8.7	8.7
50°	159.8	229.1	147.8	7.5	7.5
52.5°	106.8	139.5	42.8	7.5	7.5
55°	49.8	66.0	10.6	7.5	6.0
57.5°	17.5	33.1	7.2	6.0	6.0
60°	3.0	16.3	6.0	6.0	6.0
62.5°	1.8	9.2	6.0	4.9	6.0
65°	1.5	5.9	4.5	4.5	4.5
67.5°	1.5	4.5	4.5	4.5	4.5
70°	1.5	4.5	4.5	4.5	4.5
72.5°	0.3	3.3	3.3	3.3	4.5
75°	0.0	2.9	3.0	3.0	3.0
77.5°	0.0	2.9	3.0	3.0	3.0
80°	0.0	2.9	3.0	3.0	3.0
82.5°	0.0	1.8	1.8	1.8	3.0
85°	0.0	1.5	1.5	1.5	1.5
87.5°	0.0	1.4	1.6	1.8	1.8
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.5	3.6	4.7	6.6	7.4
95°	8.5	15.7	8.5	9.6	11.6
97.5°	15.0	30.1	62.2	18.4	15.9
100°	20.1	37.7	124.9	36.8	24.3
102.5°	25.2	43.6	168.9	97.0	53.1
105°	32.8	50.4	191.6	244.7	161.9
107.5°	40.4	53.7	182.9	356.2	333.6
110°	45.5	57.9	177.8	374.3	402.2



TEST NUMBER: P621918

CATALOG NUMBER: VLT-BB-M-025U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.6	63.0	172.7	363.7	410.7
115°	58.2	70.6	165.1	343.2	401.1
117.5°	66.0	78.3	163.2	321.0	380.6
120°	72.0	83.4	159.8	304.1	366.2
122.5°	76.2	88.4	155.6	289.6	346.7
125°	83.6	95.0	155.6	272.1	321.8
127.5°	89.8	101.3	155.8	251.7	300.8
130°	93.1	105.6	156.6	238.1	284.7
132.5°	97.4	109.8	156.6	232.0	270.3
135°	103.7	115.1	156.6	224.1	257.2
137.5°	109.0	121.2	156.6	215.3	243.6
140°	113.2	124.6	156.6	210.2	236.0
142.5°	117.5	128.0	157.5	204.2	228.4
145°	122.8	133.1	157.7	195.2	215.9
147.5°	129.1	138.2	159.0	188.8	204.7
150°	133.4	141.6	159.8	184.5	197.9
152.5°	137.6	145.0	159.8	181.0	192.0
155°	143.9	149.1	160.9	176.9	185.2
157.5°	149.0	154.0	162.1	174.3	180.4
160°	152.4	156.5	163.0	172.6	177.8
162.5°	155.0	159.1	163.8	171.8	175.3
165°	159.8	161.9	165.1	169.4	172.5
167.5°	162.6	164.4	166.2	168.3	170.2
170°	165.1	166.1	166.2	168.3	169.3
172.5°	166.0	167.8	167.0	167.5	168.5
175°	168.3	169.3	168.3	167.2	166.2
177.5°	168.3	169.1	168.3	168.3	167.4
180°	168.3	168.3	168.3	168.3	168.3



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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	0.00	0.00	0.49	1.36	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.27	1.18	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.14	1.06	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.10	1.02	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00