

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: P621916

Luminaire Tested: VLT-BB-M-025U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621916
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-930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

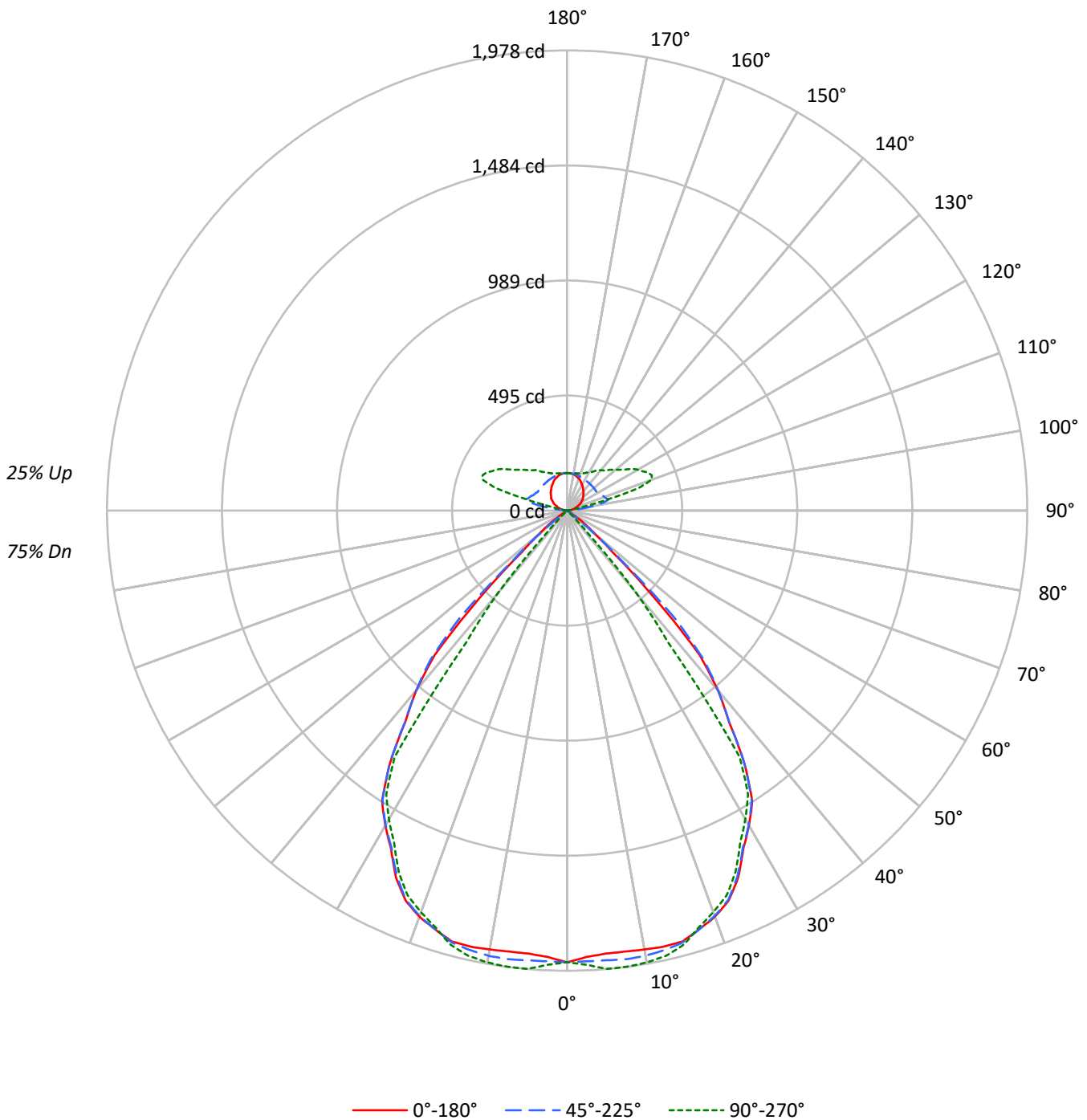
Lumens per Lamp: N/A
Luminaire Lumens: 3541.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	5.2
10°-20°	541.4	15.3
20°-30°	790.8	22.3
30°-40°	783.2	22.1
40°-50°	327.9	9.3
50°-60°	35.1	1.0
60°-70°	4.9	0.1
70°-80°	3.0	0.1
80°-90°	1.8	0.0
90°-100°	19.9	0.6
100°-110°	141.6	4.0
110°-120°	192.2	5.4
120°-130°	156.4	4.4
130°-140°	125.8	3.6
140°-150°	99.2	2.8
150°-160°	72.5	2.0
160°-170°	45.0	1.3
170°-180°	15.4	0.4
0°-30°	1517.7	42.9
0°-40°	2300.9	65.0
0°-60°	2663.9	75.2
0°-90°	2673.5	75.5
90°-120°	353.6	10.0
90°-150°	735.0	20.8
90°-180°	868.0	24.5
0°-180°	3541.5	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	1	2	3	3	0
95°	8	15	8	9	11	9
105°	32	48	184	235	156	33
115°	56	68	158	330	385	55
125°	80	91	149	261	309	71
135°	100	110	150	215	247	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	154	155	158	163	166	43
175°	162	163	162	160	160	15
180°	162	162	162	162	162	



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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	1.3	1.6	1.8	1.8
90°	0.0	1.0	2.0	3.0	3.0
92.5°	2.4	3.4	4.5	6.3	7.1
95°	8.1	15.1	8.1	9.2	11.2
97.5°	14.4	28.9	59.8	17.6	15.2
100°	19.3	36.2	119.9	35.3	23.4
102.5°	24.2	41.9	162.2	93.1	51.0
105°	31.5	48.4	183.9	235.0	155.5
107.5°	38.8	51.5	175.6	342.0	320.3
110°	43.7	55.6	170.7	359.3	386.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.6	60.5	165.8	349.2	394.3
115°	55.9	67.8	158.5	329.5	385.2
117.5°	63.4	75.1	156.7	308.2	365.4
120°	69.1	80.0	153.5	292.0	351.6
122.5°	73.2	84.9	149.4	278.1	332.9
125°	80.3	91.2	149.4	261.2	308.9
127.5°	86.2	97.3	149.6	241.7	288.8
130°	89.4	101.4	150.4	228.7	273.4
132.5°	93.5	105.4	150.4	222.8	259.5
135°	99.6	110.5	150.4	215.1	246.9
137.5°	104.7	116.4	150.4	206.7	233.9
140°	108.7	119.7	150.4	201.8	226.6
142.5°	112.8	122.9	151.2	196.1	219.3
145°	117.9	127.8	151.4	187.4	207.3
147.5°	124.0	132.7	152.6	181.2	196.5
150°	128.0	136.0	153.5	177.1	190.0
152.5°	132.1	139.3	153.5	173.8	184.3
155°	138.2	143.2	154.5	169.9	177.8
157.5°	143.1	147.9	155.7	167.4	173.2
160°	146.3	150.3	156.5	165.8	170.7
162.5°	148.8	152.8	157.3	164.9	168.3
165°	153.5	155.4	158.5	162.7	165.6
167.5°	156.1	157.9	159.5	161.6	163.4
170°	158.5	159.5	159.5	161.6	162.6
172.5°	159.3	161.1	160.4	160.8	161.8
175°	161.6	162.6	161.6	160.5	159.5
177.5°	161.6	162.4	161.6	161.6	160.8
180°	161.6	161.6	161.6	161.6	161.6



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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	0.34	1.21	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.12	1.03	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.53	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
	12H	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.45	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	0.42	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.39	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	0.46	0.00	0.00	0.00	0.00	0.00