

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: P621954

Luminaire Tested: VLT-BB-M-0U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621954
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-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

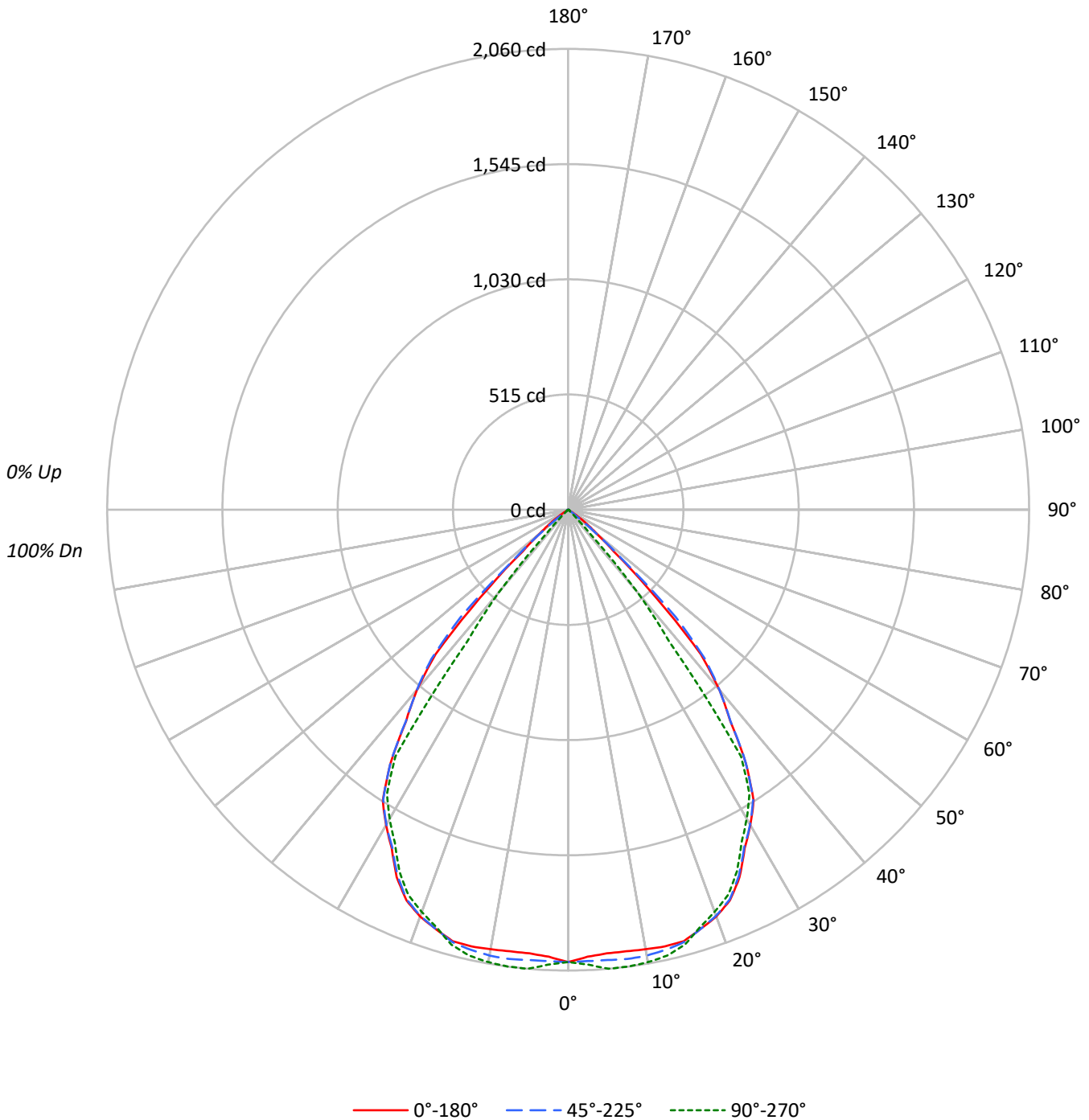
Lumens per Lamp: N/A
Luminaire Lumens: 2784.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86					85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79					78				
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73					71				
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67					65				
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61					60				
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57					55				
8	75	64	58	53	74	64	57	53	63	57	53	62	56	53	61	56	52					51				
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	49					47				
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45					44				

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	6.9
10°-20°	563.8	20.3
20°-30°	823.6	29.6
30°-40°	815.7	29.3
40°-50°	341.5	12.3
50°-60°	36.5	1.3
60°-70°	5.1	0.2
70°-80°	3.1	0.1
80°-90°	1.5	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°	1580.7	56.8
0°-40°	2396.4	86.1
0°-60°	2774.4	99.7
0°-90°	2784.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2784.1	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	0	0	0	0	



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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	1.2	1.2	1.2	1.2
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	0.97	2.03	1.33	2.34	2.66	0.00	0.00	0.00	0.00	0.00
	3H	0.85	1.78	1.23	2.11	2.48	0.00	0.00	0.00	0.00	0.00
	4H	0.76	1.63	1.17	1.98	2.37	0.00	0.00	0.00	0.00	0.00
	6H	0.67	1.46	1.09	1.83	2.23	0.00	0.00	0.00	0.00	0.00
	8H	0.62	1.36	1.05	1.75	2.16	0.00	0.00	0.00	0.00	0.00
	12H	0.56	1.27	1.00	1.65	2.08	0.00	0.00	0.00	0.00	0.00
4H	2H	0.72	1.58	1.13	1.94	2.32	0.00	0.00	0.00	0.00	0.00
	3H	0.65	1.35	1.07	1.76	2.16	0.00	0.00	0.00	0.00	0.00
	4H	0.58	1.20	1.02	1.62	2.07	0.00	0.00	0.00	0.00	0.00
	6H	0.53	1.06	1.00	1.51	1.98	0.00	0.00	0.00	0.00	0.00
	8H	0.48	0.97	0.95	1.42	1.90	0.00	0.00	0.00	0.00	0.00
	12H	0.43	0.85	0.92	1.34	1.82	0.00	0.00	0.00	0.00	0.00
8H	4H	0.48	0.98	0.96	1.43	1.90	0.00	0.00	0.00	0.00	0.00
	6H	0.50	0.90	1.01	1.40	1.88	0.00	0.00	0.00	0.00	0.00
	8H	0.50	0.85	1.03	1.37	1.87	0.00	0.00	0.00	0.00	0.00
	12H	0.49	0.80	1.01	1.29	1.87	0.00	0.00	0.00	0.00	0.00
12H	4H	0.44	0.87	0.94	1.36	1.84	0.00	0.00	0.00	0.00	0.00
	6H	0.48	0.84	1.01	1.36	1.85	0.00	0.00	0.00	0.00	0.00
	8H	0.52	0.83	1.05	1.33	1.91	0.00	0.00	0.00	0.00	0.00