

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: P621942

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621942
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-075U-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

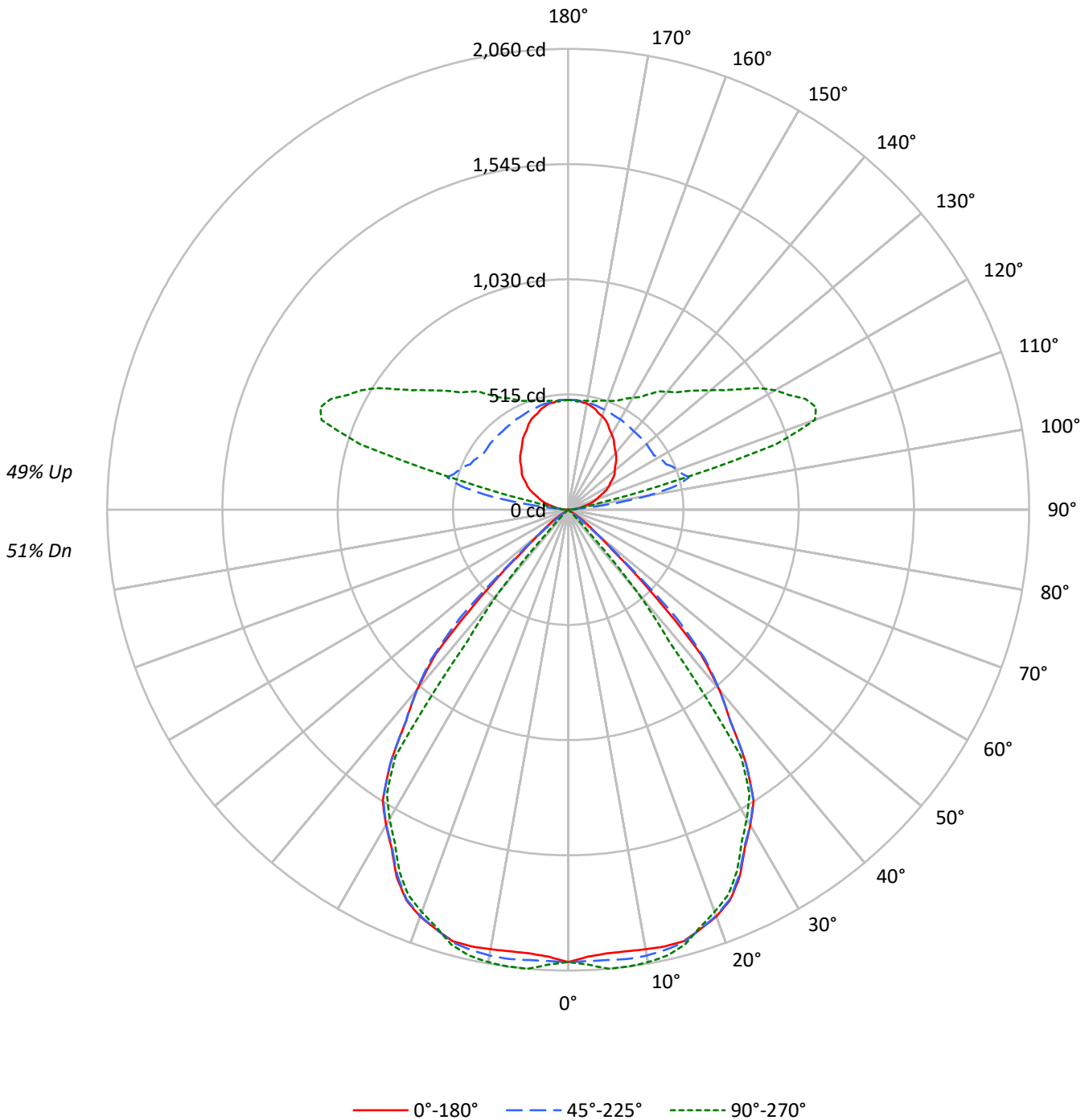
Lumens per Lamp: N/A
Luminaire Lumens: 5422.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.7
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



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51					51			
1	100	97	94	91	93	90	87	85	77	75	73	65	64	63	54	53	53	47					47			
2	93	87	82	78	86	81	77	73	70	67	64	60	58	56	50	49	48	44					44			
3	87	79	73	68	80	74	68	64	64	60	57	55	53	50	47	45	44	40					40			
4	81	71	65	60	75	67	61	57	59	54	51	51	48	45	44	42	40	37					37			
5	75	65	58	53	70	61	55	51	54	49	46	47	44	41	41	38	36	33					33			
6	70	59	52	47	65	56	50	45	50	45	41	44	40	37	38	35	33	31					31			
7	65	55	48	43	61	52	45	41	46	41	38	40	37	34	35	33	31	28					28			
8	61	50	43	39	57	48	41	37	42	38	34	38	34	31	33	30	28	26					26			
9	57	46	40	35	54	44	38	34	39	35	31	35	31	29	31	28	26	24					24			
10	54	43	36	32	50	41	35	31	37	32	29	33	29	26	29	26	24	22					22			

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	3.6
10°-20°	563.8	10.4
20°-30°	823.6	15.2
30°-40°	815.7	15.0
40°-50°	341.5	6.3
50°-60°	36.5	0.7
60°-70°	5.1	0.1
70°-80°	3.1	0.1
80°-90°	2.6	0.0
90°-100°	60.4	1.1
100°-110°	430.1	7.9
110°-120°	583.9	10.8
120°-130°	475.3	8.8
130°-140°	382.3	7.0
140°-150°	301.4	5.6
150°-160°	220.3	4.1
160°-170°	136.9	2.5
170°-180°	46.7	0.9
0°-30°	1580.7	29.2
0°-40°	2396.4	44.2
0°-60°	2774.4	51.2
0°-90°	2785.2	51.4
90°-120°	1074.4	19.8
90°-150°	2233.3	41.2
90°-180°	2637.0	48.6
0°-180°	5422.4	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	3	6	9	9	1
95°	25	46	25	28	34	28
105°	96	147	559	714	472	101
115°	170	206	482	1001	1170	169
125°	244	277	454	794	939	217
135°	303	336	457	654	750	233
145°	358	388	460	570	630	225
155°	420	435	469	516	540	193
165°	466	472	482	494	503	131
175°	491	494	491	488	485	46
180°	491	491	491	491	491	



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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	1.8	2.4	3.1	3.1
90°	0.0	3.0	6.2	9.3	9.3
92.5°	7.4	10.4	13.6	19.2	21.6
95°	24.7	45.8	24.7	27.9	34.0
97.5°	43.8	87.9	181.6	53.6	46.3
100°	58.7	110.0	364.3	107.2	71.0
102.5°	73.5	127.2	492.8	283.0	155.0
105°	95.7	147.0	558.9	713.9	472.4
107.5°	117.9	156.6	533.5	1039.0	973.2
110°	132.8	169.0	518.7	1091.8	1173.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.6	183.8	503.9	1060.9	1198.0
115°	169.8	206.0	481.7	1001.2	1170.2
117.5°	192.7	228.3	476.1	936.4	1110.3
120°	210.0	243.2	466.2	887.2	1068.3
122.5°	222.3	257.9	453.9	844.9	1011.5
125°	243.9	277.1	453.9	793.7	938.6
127.5°	261.8	295.6	454.5	734.4	877.5
130°	271.7	307.9	457.0	694.7	830.6
132.5°	284.1	320.3	457.0	676.9	788.6
135°	302.6	335.8	457.0	653.7	750.3
137.5°	318.0	353.7	457.0	628.1	710.8
140°	330.4	363.6	457.0	613.1	688.5
142.5°	342.7	373.5	459.4	595.7	666.3
145°	358.2	388.4	460.1	569.5	629.9
147.5°	376.7	403.3	463.8	550.7	597.2
150°	389.0	413.2	466.2	538.1	577.4
152.5°	401.4	423.1	466.2	528.1	560.1
155°	419.9	435.0	469.3	516.2	540.3
157.5°	434.7	449.2	473.0	508.6	526.1
160°	444.6	456.7	475.5	503.6	518.7
162.5°	452.0	464.1	478.0	501.0	511.3
165°	466.2	472.3	481.7	494.2	503.3
167.5°	474.3	479.7	484.8	491.1	496.5
170°	481.7	484.7	484.8	491.0	494.0
172.5°	484.1	489.6	487.2	488.5	491.6
175°	490.9	494.0	490.9	487.8	484.8
177.5°	490.9	493.4	490.9	490.9	488.5
180°	490.9	490.9	490.9	490.9	490.9



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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	0.00	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
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