

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: P621929

Luminaire Tested: VLT-BB-M-050U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621929
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

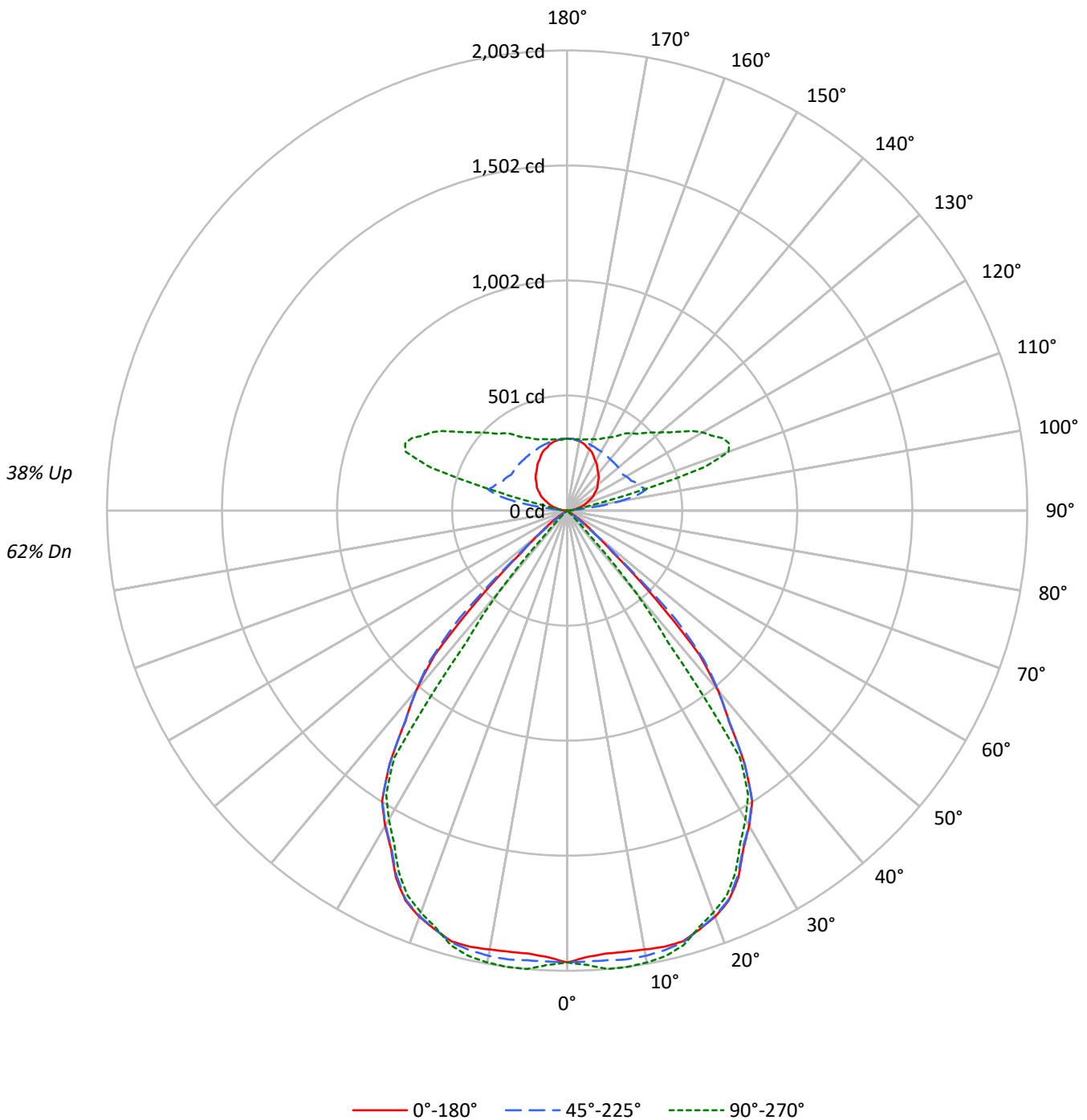
Lumens per Lamp: N/A
Luminaire Lumens: 4389.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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



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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	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°	14111	14111	14111
5°	13944	14155	14430
10°	14137	14340	14554
15°	14424	14457	14544
20°	14368	14345	14211
25°	13957	13899	13736
30°	13123	13099	12856
35°	11793	11806	11472
40°	9575	9575	4382
45°	5506	6697	89
50°	1735	1604	81
55°	606	129	74
60°	42	85	85
65°	25	75	75
70°	31	92	92
75°	0	80	80
80°	0	120	120
85°	0	124	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	4.3
10°-20°	548.3	12.5
20°-30°	801.0	18.2
30°-40°	793.3	18.1
40°-50°	332.1	7.6
50°-60°	35.5	0.8
60°-70°	5.0	0.1
70°-80°	3.0	0.1
80°-90°	2.1	0.0
90°-100°	38.5	0.9
100°-110°	274.1	6.2
110°-120°	372.2	8.5
120°-130°	302.9	6.9
130°-140°	243.6	5.6
140°-150°	192.1	4.4
150°-160°	140.4	3.2
160°-170°	87.2	2.0
170°-180°	29.7	0.7
0°-30°	1537.3	35.0
0°-40°	2330.6	53.1
0°-60°	2698.3	61.5
0°-90°	2708.4	61.7
90°-120°	684.8	15.6
90°-150°	1423.4	32.4
90°-180°	1681.0	38.3
0°-180°	4389.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1936	1970	1965	1970	2003	185
15°	1942	1982	1946	1932	1958	545
25°	1763	1793	1755	1713	1735	805
35°	1346	1349	1348	1321	1310	826
45°	543	644	660	13	9	426
55°	48	64	10	7	6	54
65°	2	6	4	4	4	2
75°	0	3	3	3	3	0
85°	0	1	2	2	2	0
90°	0	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	94	356	455	301	64
115°	108	131	307	638	746	107
125°	156	177	289	506	598	138
135°	193	214	291	417	478	148
145°	228	248	293	363	402	143
155°	268	277	299	329	344	123
165°	297	301	307	315	321	83
175°	313	315	313	311	309	30
180°	313	313	313	313	313	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.5	1966.5	1966.5	1966.5	1966.5
2.5°	1945.4	1972.9	1964.2	1962.2	1979.4
5°	1935.7	1970.1	1965.1	1970.2	2003.2
7.5°	1936.6	1968.4	1970.3	1970.2	2003.2
10°	1940.1	1973.1	1968.0	1964.3	1997.3
12.5°	1944.8	1978.9	1959.8	1953.8	1985.6
15°	1941.6	1981.7	1946.0	1931.9	1957.7
17.5°	1912.0	1958.4	1911.4	1884.2	1903.2
20°	1881.5	1930.2	1878.5	1840.9	1860.9
22.5°	1838.1	1883.4	1834.0	1790.5	1814.0
25°	1762.7	1792.8	1755.4	1713.3	1734.8
27.5°	1660.0	1677.2	1655.9	1618.1	1631.3
30°	1583.8	1595.3	1580.8	1542.9	1551.5
32.5°	1499.3	1505.0	1496.4	1461.9	1465.9
35°	1346.2	1349.1	1347.7	1321.0	1309.6
37.5°	1157.0	1162.8	1159.4	1043.5	720.0
40°	1022.1	1027.9	1022.1	611.2	467.8
42.5°	853.2	889.9	880.2	416.8	133.4
45°	542.6	644.4	659.9	13.1	8.8
47.5°	268.1	377.9	310.3	8.5	8.5
50°	155.4	222.8	143.7	7.3	7.3
52.5°	103.8	135.7	41.6	7.3	7.3
55°	48.4	64.2	10.3	7.3	5.9
57.5°	17.0	32.2	7.0	5.9	5.9
60°	2.9	15.8	5.9	5.9	5.9
62.5°	1.8	8.9	5.9	4.7	5.9
65°	1.5	5.8	4.4	4.4	4.4
67.5°	1.5	4.3	4.4	4.4	4.4
70°	1.5	4.3	4.4	4.4	4.4
72.5°	0.3	3.2	3.2	3.3	4.4
75°	0.0	2.9	2.9	2.9	2.9
77.5°	0.0	2.9	2.9	2.9	2.9
80°	0.0	2.9	2.9	2.9	2.9
82.5°	0.0	1.7	1.8	1.8	2.9
85°	0.0	1.4	1.5	1.5	1.5
87.5°	0.0	1.5	2.0	2.4	2.4
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.7	12.2	13.8
95°	15.7	29.2	15.7	17.8	21.6
97.5°	27.9	56.0	115.7	34.1	29.5
100°	37.4	70.1	232.2	68.4	45.3
102.5°	46.8	81.1	314.1	180.4	98.8
105°	61.0	93.7	356.2	455.0	301.1
107.5°	75.2	99.8	340.1	662.3	620.3
110°	84.6	107.7	330.6	695.9	747.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.1	117.2	321.2	676.2	763.6
115°	108.2	131.3	307.0	638.1	745.9
117.5°	122.8	145.5	303.5	596.9	707.7
120°	133.8	155.0	297.2	565.5	680.9
122.5°	141.7	164.4	289.3	538.5	644.7
125°	155.5	176.6	289.3	505.9	598.3
127.5°	166.9	188.4	289.7	468.1	559.3
130°	173.2	196.3	291.3	442.8	529.4
132.5°	181.1	204.1	291.3	431.4	502.6
135°	192.9	214.0	291.3	416.6	478.2
137.5°	202.7	225.4	291.3	400.3	453.0
140°	210.6	231.7	291.3	390.8	438.9
142.5°	218.4	238.1	292.8	379.7	424.7
145°	228.3	247.5	293.2	363.0	401.5
147.5°	240.1	257.0	295.6	351.0	380.6
150°	248.0	263.4	297.2	343.0	368.0
152.5°	255.8	269.7	297.2	336.6	357.0
155°	267.6	277.3	299.1	329.0	344.4
157.5°	277.1	286.3	301.5	324.2	335.3
160°	283.4	291.1	303.1	321.0	330.6
162.5°	288.1	295.8	304.6	319.4	325.9
165°	297.2	301.0	307.0	315.0	320.8
167.5°	302.3	305.7	309.0	313.0	316.5
170°	307.0	308.9	309.0	313.0	314.9
172.5°	308.6	312.0	310.5	311.4	313.3
175°	312.9	314.8	312.9	310.9	309.0
177.5°	312.9	314.4	312.9	312.9	311.3
180°	312.9	312.9	312.9	312.9	312.9



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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	0.39	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.09	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	0.04	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