

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: P621965

Luminaire Tested: VLT-BB-M-100U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621965
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-100U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

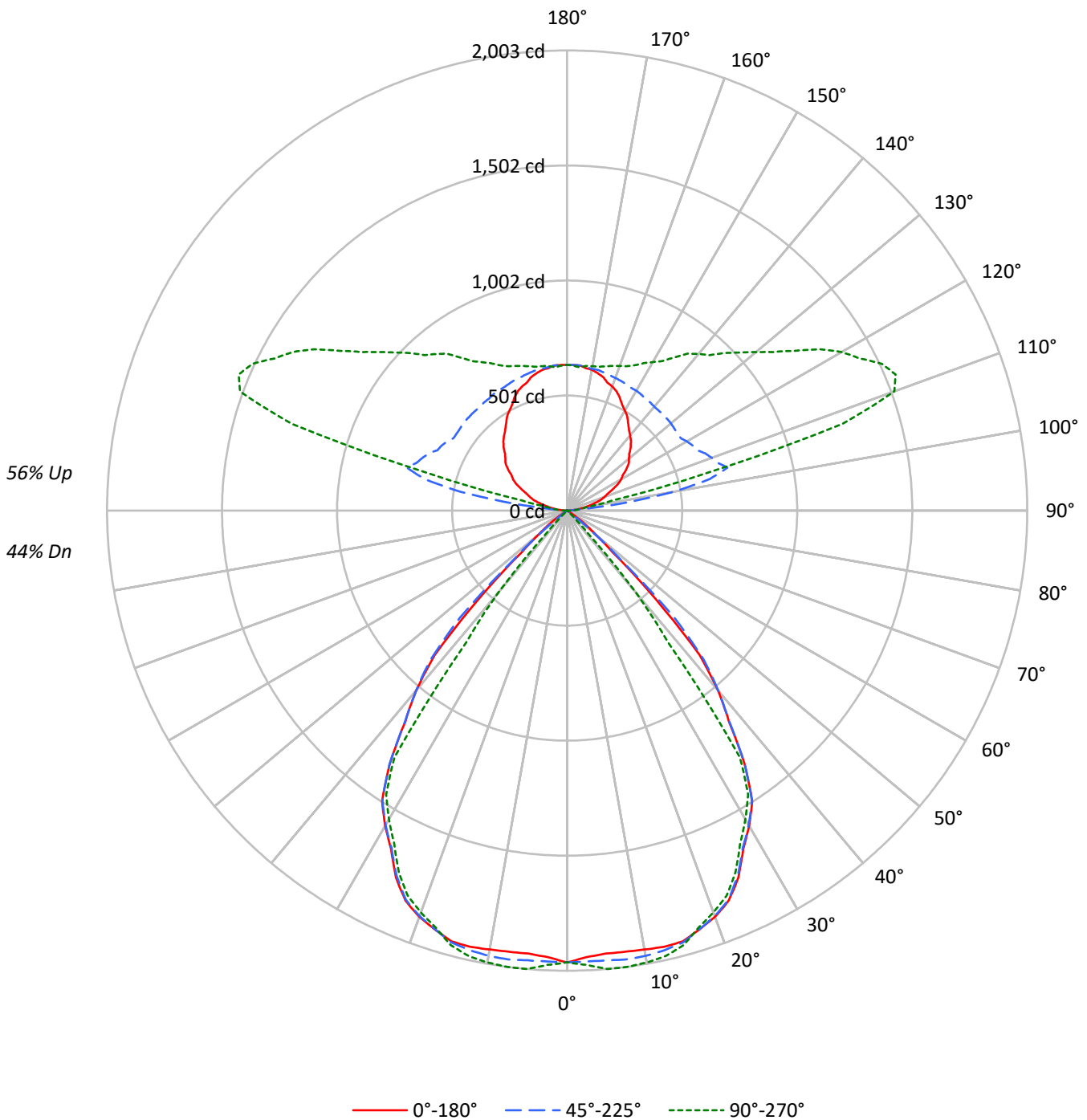
Lumens per Lamp: N/A
Luminaire Lumens: 6115.8 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.3
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	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				44
1	98	95	92	89	90	87	84	82	73	71	69	60	59	58	48	47	46	41				41
2	91	85	80	76	84	79	74	71	66	63	61	55	53	51	44	43	42	38				38
3	85	77	71	66	78	71	66	62	60	57	54	51	48	46	41	40	38	34				34
4	78	69	63	58	72	64	59	54	55	51	48	46	44	41	38	37	35	31				31
5	73	63	56	51	67	59	53	48	50	46	43	43	40	37	36	34	32	29				29
6	68	57	50	45	63	54	47	43	46	42	38	40	36	34	33	31	29	27				27
7	63	52	45	41	58	49	43	39	43	38	35	37	33	31	31	29	27	24				24
8	59	48	41	37	55	45	39	35	39	35	31	34	31	28	29	27	25	23				23
9	55	44	38	33	51	42	36	32	37	32	29	32	28	26	27	25	23	21				21
10	52	41	35	30	48	39	33	29	34	29	26	30	26	24	25	23	21	19				19

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	3.1
10°-20°	548.3	9.0
20°-30°	801.0	13.1
30°-40°	793.3	13.0
40°-50°	332.1	5.4
50°-60°	35.5	0.6
60°-70°	5.0	0.1
70°-80°	3.0	0.0
80°-90°	2.9	0.0
90°-100°	78.0	1.3
100°-110°	555.6	9.1
110°-120°	754.3	12.3
120°-130°	613.9	10.0
130°-140°	493.8	8.1
140°-150°	389.3	6.4
150°-160°	284.7	4.7
160°-170°	176.8	2.9
170°-180°	60.3	1.0
0°-30°	1537.3	25.1
0°-40°	2330.6	38.1
0°-60°	2698.3	44.1
0°-90°	2709.1	44.3
90°-120°	1387.9	22.7
90°-150°	2884.9	47.2
90°-180°	3407.0	55.7
0°-180°	6115.8	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	4	8	12	12	1
95°	32	59	32	36	44	36
105°	124	190	722	922	610	130
115°	219	266	622	1293	1512	218
125°	315	358	586	1025	1212	280
135°	391	434	590	844	969	301
145°	463	502	594	736	814	291
155°	542	562	606	667	698	249
165°	602	610	622	638	650	169
175°	634	638	634	630	626	60
180°	634	634	634	634	634	



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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	1.9	2.8	3.6	3.6
90°	0.0	3.9	8.0	12.0	12.0
92.5°	9.6	13.5	17.5	24.8	27.9
95°	31.9	59.2	31.9	36.1	43.9
97.5°	56.6	113.6	234.5	69.2	59.8
100°	75.8	142.1	470.7	138.5	91.7
102.5°	94.9	164.3	636.6	365.6	200.2
105°	123.6	189.9	721.9	922.3	610.3
107.5°	152.4	202.3	689.2	1342.2	1257.2
110°	171.5	218.3	670.1	1410.4	1515.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	190.7	237.5	650.9	1370.5	1547.6
115°	219.4	266.2	622.2	1293.3	1511.7
117.5°	248.9	294.9	615.0	1209.7	1434.3
120°	271.2	314.1	602.3	1146.1	1380.1
122.5°	287.2	333.2	586.3	1091.4	1306.7
125°	315.1	358.0	586.3	1025.3	1212.5
127.5°	338.2	381.9	587.1	948.7	1133.6
130°	351.0	397.8	590.3	897.4	1072.9
132.5°	367.0	413.8	590.3	874.4	1018.7
135°	390.9	433.8	590.3	844.4	969.2
137.5°	410.8	456.8	590.3	811.3	918.2
140°	426.8	469.7	590.3	792.0	889.5
142.5°	442.7	482.5	593.5	769.5	860.7
145°	462.7	501.7	594.3	735.7	813.7
147.5°	486.6	520.9	599.1	711.3	771.4
150°	502.6	533.8	602.3	695.2	745.9
152.5°	518.5	546.6	602.3	682.2	723.5
155°	542.5	562.0	606.3	666.8	698.0
157.5°	561.6	580.3	611.1	657.0	679.7
160°	574.4	590.0	614.2	650.6	670.1
162.5°	583.9	599.5	617.4	647.3	660.5
165°	602.3	610.1	622.2	638.4	650.1
167.5°	612.7	619.7	626.2	634.4	641.4
170°	622.2	626.1	626.2	634.3	638.2
172.5°	625.4	632.4	629.4	631.1	635.0
175°	634.2	638.1	634.2	630.1	626.2
177.5°	634.2	637.3	634.2	634.1	631.0
180°	634.2	634.2	634.2	634.2	634.2



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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