

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: P621920

Luminaire Tested: VLT-BB-M-025U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621920
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-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

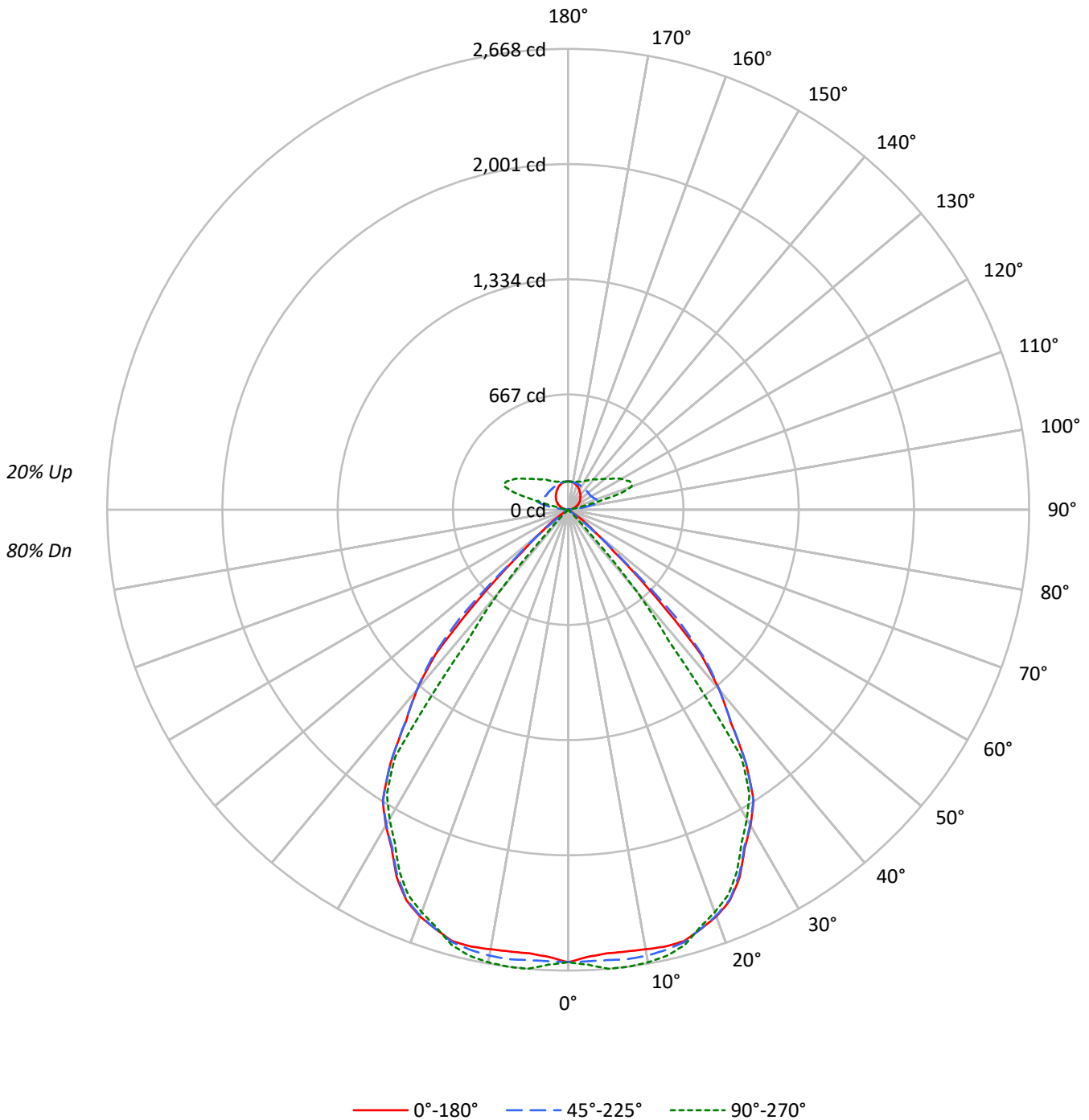
Lumens per Lamp: N/A
Luminaire Lumens: 4486.2 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47.5
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	0
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100		92	92	92		84	84	84	80
1	108	105	102	99	103	101	98	96	93	91	89		86	84	83		79	78	77	74
2	101	96	91	87	97	92	88	85	86	83	80		80	77	75		74	73	71	68
3	95	88	82	77	91	85	80	76	79	75	72		74	71	68		70	67	65	62
4	89	80	74	69	86	78	72	68	73	69	65		69	65	62		65	62	59	57
5	84	74	67	63	80	72	66	61	68	63	59		64	60	57		61	57	55	52
6	78	68	62	57	76	66	60	56	63	58	54		60	55	52		57	53	50	48
7	74	63	56	52	71	62	55	51	58	53	49		56	51	48		53	49	46	44
8	69	59	52	47	67	57	51	47	54	49	45		52	47	44		49	46	43	41
9	65	55	48	44	63	53	47	43	51	46	42		49	44	41		46	42	40	38
10	62	51	44	40	60	50	44	40	48	42	39		45	41	38		44	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18797	18797	18797
5°	18573	18855	19221
10°	18831	19101	19386
15°	19213	19257	19373
20°	19138	19108	18929
25°	18590	18513	18296
30°	17480	17448	17124
35°	15709	15725	15280
40°	12754	12754	5837
45°	7334	8920	119
50°	2312	2137	109
55°	807	171	98
60°	56	112	112
65°	34	100	100
70°	42	124	124
75°	0	108	108
80°	0	161	161
85°	0	165	165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	5.6
10°-20°	730.4	16.3
20°-30°	1067.0	23.8
30°-40°	1056.7	23.6
40°-50°	442.4	9.9
50°-60°	47.3	1.1
60°-70°	6.7	0.1
70°-80°	4.0	0.1
80°-90°	2.3	0.1
90°-100°	20.1	0.4
100°-110°	143.4	3.2
110°-120°	194.7	4.3
120°-130°	158.4	3.5
130°-140°	127.4	2.8
140°-150°	100.5	2.2
150°-160°	73.5	1.6
160°-170°	45.6	1.0
170°-180°	15.6	0.3
0°-30°	2047.7	45.6
0°-40°	3104.4	69.2
0°-60°	3594.1	80.1
0°-90°	3607.1	80.4
90°-120°	358.2	8.0
90°-150°	744.5	16.6
90°-180°	879.0	19.6
0°-180°	4486.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2619	2619	2619	2619	2619	
5°	2578	2624	2618	2624	2668	247
15°	2586	2640	2592	2573	2608	727
25°	2348	2388	2338	2282	2311	1072
35°	1793	1797	1795	1760	1744	1100
45°	723	858	879	17	12	567
55°	64	86	14	10	8	72
65°	2	8	6	6	6	2
75°	0	4	4	4	4	0
85°	0	2	2	2	2	0
90°	0	1	2	3	3	0
95°	8	15	8	9	11	9
105°	32	49	186	238	158	34
115°	57	69	161	334	390	56
125°	81	92	151	265	313	72
135°	101	112	152	218	250	78
145°	119	130	153	190	210	75
155°	140	145	156	172	180	64
165°	155	157	161	165	168	44
175°	164	165	164	163	162	15
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2619.4	2619.4	2619.4	2619.4	2619.4
2.5°	2591.3	2628.0	2616.3	2613.7	2636.6
5°	2578.4	2624.3	2617.5	2624.3	2668.3
7.5°	2579.6	2622.0	2624.5	2624.3	2668.3
10°	2584.3	2628.2	2621.4	2616.5	2660.5
12.5°	2590.5	2636.0	2610.5	2602.4	2644.8
15°	2586.2	2639.7	2592.1	2573.3	2607.7
17.5°	2546.8	2608.7	2546.0	2509.8	2535.1
20°	2506.1	2571.1	2502.2	2452.1	2478.8
22.5°	2448.3	2508.7	2442.9	2385.0	2416.3
25°	2347.9	2388.0	2338.2	2282.2	2310.8
27.5°	2211.2	2234.1	2205.7	2155.3	2172.9
30°	2109.6	2124.9	2105.7	2055.2	2066.6
32.5°	1997.1	2004.7	1993.2	1947.2	1952.6
35°	1793.2	1797.0	1795.1	1759.6	1744.3
37.5°	1541.2	1548.8	1544.3	1390.0	959.1
40°	1361.5	1369.1	1361.5	814.1	623.1
42.5°	1136.5	1185.4	1172.4	555.2	177.8
45°	722.7	858.3	879.0	17.4	11.7
47.5°	357.1	503.4	413.3	11.3	11.3
50°	207.1	296.8	191.4	9.8	9.8
52.5°	138.3	180.7	55.5	9.8	9.8
55°	64.5	85.5	13.7	9.7	7.8
57.5°	22.7	42.9	9.4	7.8	7.8
60°	3.9	21.1	7.8	7.8	7.8
62.5°	2.3	11.9	7.8	6.3	7.8
65°	2.0	7.7	5.9	5.9	5.9
67.5°	2.0	5.8	5.9	5.9	5.9
70°	2.0	5.8	5.9	5.9	5.9
72.5°	0.4	4.2	4.3	4.3	5.9
75°	0.0	3.8	3.9	3.9	3.9
77.5°	0.0	3.8	3.9	3.9	3.9
80°	0.0	3.8	3.9	3.9	3.9
82.5°	0.0	2.3	2.3	2.4	3.9
85°	0.0	1.9	2.0	2.0	2.0
87.5°	0.0	1.7	2.0	2.2	2.2
90°	0.0	1.0	2.1	3.1	3.1
92.5°	2.5	3.5	4.5	6.4	7.2
95°	8.2	15.3	8.2	9.3	11.3
97.5°	14.6	29.3	60.5	17.9	15.4
100°	19.6	36.7	121.5	35.8	23.7
102.5°	24.5	42.4	164.3	94.3	51.7
105°	31.9	49.0	186.3	238.0	157.5
107.5°	39.3	52.2	177.9	346.4	324.4
110°	44.3	56.3	172.9	364.0	391.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	61.3	168.0	353.7	399.4
115°	56.6	68.7	160.6	333.8	390.1
117.5°	64.2	76.1	158.7	312.2	370.1
120°	70.0	81.1	155.4	295.8	356.1
122.5°	74.1	86.0	151.3	281.7	337.2
125°	81.3	92.4	151.3	264.6	312.9
127.5°	87.3	98.6	151.5	244.8	292.5
130°	90.6	102.7	152.3	231.6	276.9
132.5°	94.7	106.8	152.3	225.7	262.9
135°	100.9	111.9	152.3	217.9	250.1
137.5°	106.0	117.9	152.3	209.4	237.0
140°	110.1	121.2	152.3	204.4	229.5
142.5°	114.3	124.5	153.2	198.6	222.1
145°	119.4	129.5	153.4	189.9	210.0
147.5°	125.6	134.4	154.6	183.6	199.1
150°	129.7	137.7	155.4	179.4	192.5
152.5°	133.8	141.1	155.4	176.1	186.7
155°	140.0	145.0	156.5	172.1	180.1
157.5°	144.9	149.8	157.7	169.6	175.4
160°	148.2	152.3	158.5	167.9	172.9
162.5°	150.7	154.7	159.3	167.0	170.5
165°	155.4	157.4	160.6	164.8	167.8
167.5°	158.1	159.9	161.6	163.7	165.5
170°	160.6	161.6	161.6	163.7	164.7
172.5°	161.4	163.2	162.4	162.9	163.9
175°	163.7	164.7	163.7	162.6	161.6
177.5°	163.7	164.5	163.7	163.6	162.8
180°	163.7	163.7	163.7	163.7	163.7



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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	0.24	1.10	0.93	1.77	2.54	0.00	0.00	0.00	0.00	0.00
	3H	0.11	0.87	0.81	1.55	2.36	0.00	0.00	0.00	0.00	0.00
	4H	0.02	0.73	0.74	1.42	2.24	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.57	0.65	1.27	2.10	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.48	0.61	1.19	2.03	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.39	0.55	1.10	1.96	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.69	0.70	1.37	2.20	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.48	0.63	1.21	2.05	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.35	0.57	1.08	1.95	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.22	0.54	0.98	1.86	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.14	0.50	0.89	1.78	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.04	0.45	0.81	1.70	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.15	0.50	0.90	1.79	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.09	0.55	0.89	1.78	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.06	0.57	0.86	1.76	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.55	0.79	1.76	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.05	0.47	0.83	1.72	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.04	0.56	0.84	1.75	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.04	0.59	0.83	1.80	0.00	0.00	0.00	0.00	0.00