

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: P621949

Luminaire Tested: VLT-BB-M-0U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621949
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-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

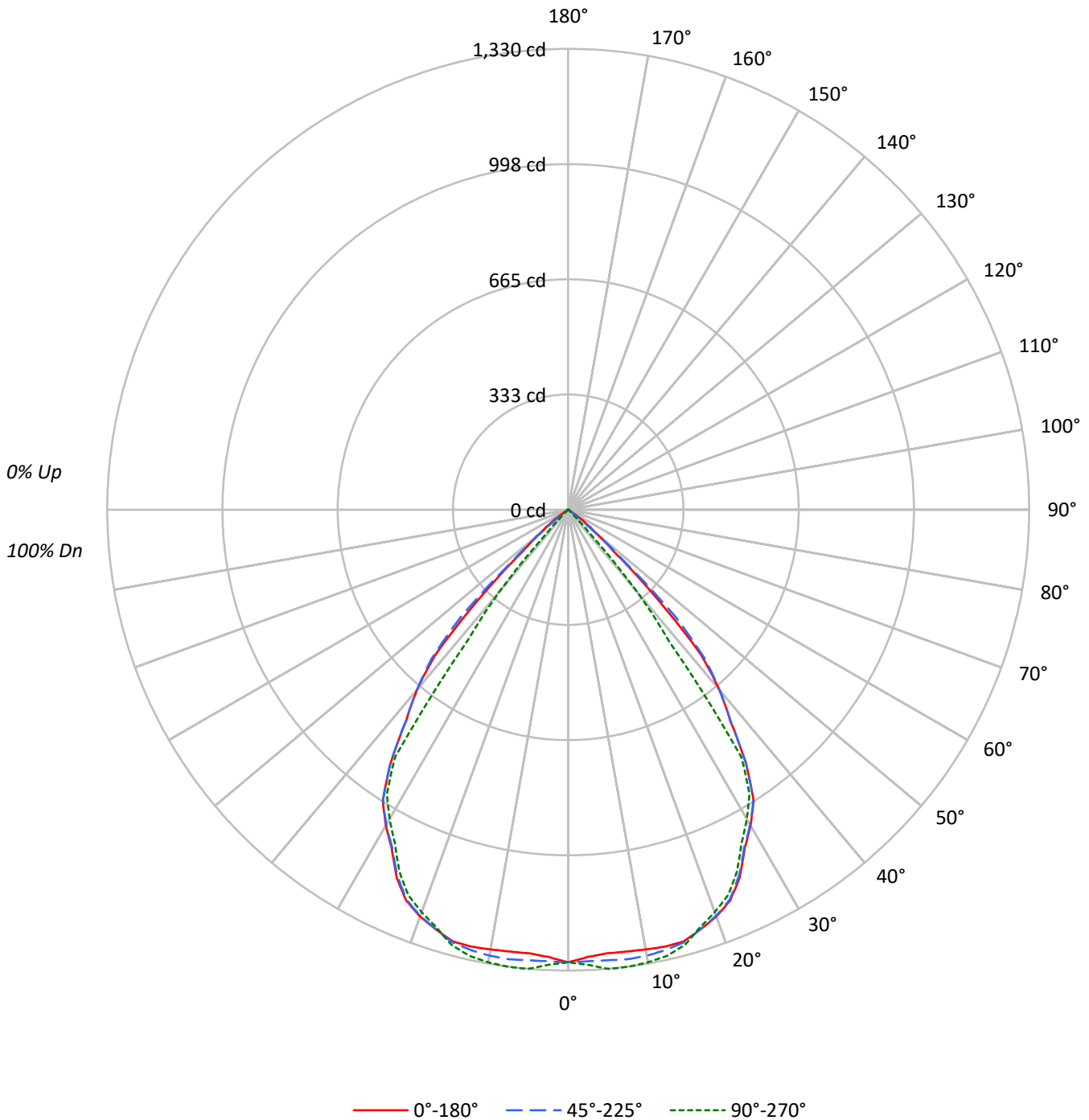
Lumens per Lamp: N/A
Luminaire Lumens: 1798.2 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.3
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	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				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65				65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60				60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55
8	75	64	58	53	74	64	57	53	63	57	53	62	56	53	61	56	52	51				51
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	49	47				47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44				44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9372	9372	9372
5°	9260	9400	9583
10°	9389	9524	9665
15°	9579	9601	9659
20°	9542	9527	9438
25°	9269	9231	9122
30°	8715	8700	8538
35°	7832	7840	7619
40°	6359	6359	2910
45°	3656	4448	59
50°	1152	1065	55
55°	402	85	49
60°	27	56	56
65°	17	49	49
70°	21	61	61
75°	0	53	53
80°	0	79	79
85°	0	82	82

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	6.9
10°-20°	364.2	20.3
20°-30°	532.0	29.6
30°-40°	526.9	29.3
40°-50°	220.6	12.3
50°-60°	23.6	1.3
60°-70°	3.3	0.2
70°-80°	2.0	0.1
80°-90°	1.0	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°	1020.9	56.8
0°-40°	1547.8	86.1
0°-60°	1791.9	99.7
0°-90°	1798.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1286	1308	1305	1308	1330	123
15°	1289	1316	1292	1283	1300	362
25°	1171	1191	1166	1138	1152	535
35°	894	896	895	877	870	548
45°	360	428	438	9	6	283
55°	32	43	7	5	4	36
65°	1	4	3	3	3	1
75°	0	2	2	2	2	0
85°	0	1	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306.0	1306.0	1306.0	1306.0	1306.0
2.5°	1292.0	1310.3	1304.4	1303.1	1314.6
5°	1285.5	1308.4	1305.0	1308.4	1330.3
7.5°	1286.1	1307.3	1308.5	1308.4	1330.3
10°	1288.5	1310.4	1307.0	1304.5	1326.4
12.5°	1291.6	1314.2	1301.5	1297.5	1318.7
15°	1289.4	1316.1	1292.4	1283.0	1300.1
17.5°	1269.8	1300.6	1269.4	1251.4	1263.9
20°	1249.5	1281.9	1247.6	1222.5	1235.9
22.5°	1220.7	1250.8	1218.0	1189.1	1204.7
25°	1170.6	1190.6	1165.8	1137.8	1152.1
27.5°	1102.4	1113.9	1099.7	1074.6	1083.4
30°	1051.8	1059.4	1049.9	1024.7	1030.4
32.5°	995.7	999.5	993.8	970.8	973.5
35°	894.0	895.9	895.0	877.3	869.7
37.5°	768.4	772.2	770.0	693.0	478.2
40°	678.8	682.6	678.8	405.9	310.7
42.5°	566.6	591.0	584.5	276.8	88.6
45°	360.3	428.0	438.3	8.7	5.8
47.5°	178.0	251.0	206.1	5.6	5.6
50°	103.2	148.0	95.4	4.9	4.9
52.5°	69.0	90.1	27.7	4.9	4.9
55°	32.1	42.6	6.8	4.8	3.9
57.5°	11.3	21.4	4.7	3.9	3.9
60°	1.9	10.5	3.9	3.9	3.9
62.5°	1.2	5.9	3.9	3.1	3.9
65°	1.0	3.8	2.9	2.9	2.9
67.5°	1.0	2.9	2.9	2.9	2.9
70°	1.0	2.9	2.9	2.9	2.9
72.5°	0.2	2.1	2.1	2.2	2.9
75°	0.0	1.9	1.9	1.9	1.9
77.5°	0.0	1.9	1.9	1.9	1.9
80°	0.0	1.9	1.9	1.9	1.9
82.5°	0.0	1.1	1.2	1.2	1.9
85°	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.8	0.8	0.8	0.8
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	0.00	0.50	0.00	0.81	1.13	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.25	0.00	0.58	0.95	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.10	0.00	0.45	0.84	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.30	0.70	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.22	0.63	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.12	0.56	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.05	0.00	0.41	0.80	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.23	0.64	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.09	0.54	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00