

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: P621951

Luminaire Tested: VLT-BB-M-0U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621951
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-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

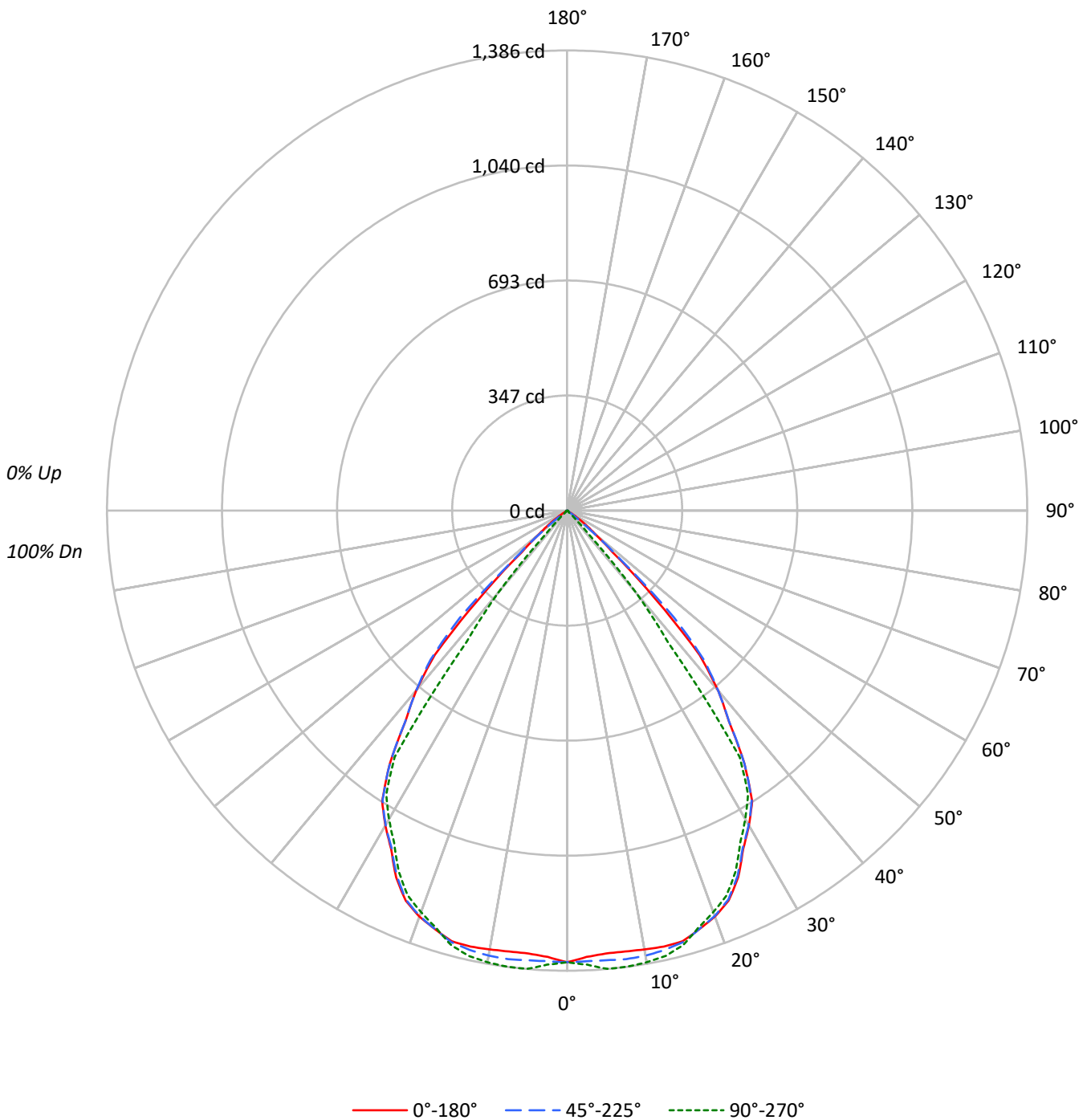
Lumens per Lamp: N/A
Luminaire Lumens: 1872.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55
8	75	64	58	53	74	64	57	53	63	57	53	62	56	53	61	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	49	47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9761	9761	9761
5°	9645	9791	9980
10°	9778	9919	10066
15°	9977	10000	10060
20°	9938	9922	9830
25°	9653	9613	9501
30°	9077	9060	8892
35°	8157	8165	7935
40°	6623	6623	3031
45°	3809	4632	62
50°	1200	1110	57
55°	419	89	51
60°	29	59	59
65°	17	51	51
70°	21	63	63
75°	0	55	55
80°	0	83	83
85°	0	82	82

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4632 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	6.9
10°-20°	379.3	20.3
20°-30°	554.0	29.6
30°-40°	548.7	29.3
40°-50°	229.7	12.3
50°-60°	24.6	1.3
60°-70°	3.4	0.2
70°-80°	2.1	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°	1063.3	56.8
0°-40°	1612.0	86.1
0°-60°	1866.3	99.7
0°-90°	1872.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1339	1363	1359	1363	1386	128
15°	1343	1371	1346	1336	1354	377
25°	1219	1240	1214	1185	1200	557
35°	931	933	932	914	906	571
45°	375	446	456	9	6	294
55°	34	44	7	5	4	38
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°	1360.2	1360.2	1360.2	1360.2	1360.2
2.5°	1345.6	1364.6	1358.6	1357.2	1369.1
5°	1338.9	1362.7	1359.2	1362.7	1385.5
7.5°	1339.5	1361.5	1362.8	1362.7	1385.5
10°	1341.9	1364.7	1361.2	1358.7	1381.5
12.5°	1345.2	1368.8	1355.5	1351.3	1373.4
15°	1342.9	1370.7	1346.0	1336.2	1354.1
17.5°	1322.4	1354.6	1322.0	1303.3	1316.4
20°	1301.4	1335.1	1299.3	1273.3	1287.2
22.5°	1271.3	1302.7	1268.5	1238.4	1254.7
25°	1219.2	1240.0	1214.1	1185.0	1199.9
27.5°	1148.2	1160.1	1145.4	1119.2	1128.3
30°	1095.4	1103.4	1093.4	1067.2	1073.1
32.5°	1037.0	1041.0	1035.0	1011.1	1013.9
35°	931.1	933.1	932.1	913.7	905.8
37.5°	800.3	804.3	801.9	721.8	498.0
40°	707.0	710.9	707.0	422.7	323.6
42.5°	590.1	615.5	608.8	288.3	92.3
45°	375.3	445.7	456.4	9.1	6.1
47.5°	185.4	261.4	214.6	5.9	5.9
50°	107.5	154.1	99.4	5.1	5.1
52.5°	71.8	93.8	28.8	5.1	5.1
55°	33.5	44.4	7.1	5.0	4.1
57.5°	11.8	22.3	4.9	4.1	4.1
60°	2.0	11.0	4.1	4.1	4.1
62.5°	1.2	6.2	4.1	3.3	4.1
65°	1.0	4.0	3.0	3.0	3.0
67.5°	1.0	3.0	3.0	3.0	3.0
70°	1.0	3.0	3.0	3.0	3.0
72.5°	0.2	2.2	2.2	2.2	3.0
75°	0.0	2.0	2.0	2.0	2.0
77.5°	0.0	2.0	2.0	2.0	2.0
80°	0.0	2.0	2.0	2.0	2.0
82.5°	0.0	1.2	1.2	1.2	2.0
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	0.66	0.00	0.97	1.29	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.41	0.00	0.74	1.11	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.25	0.00	0.60	0.99	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.08	0.00	0.46	0.85	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.38	0.78	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.28	0.71	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.21	0.00	0.56	0.95	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.38	0.79	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.25	0.70	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.14	0.61	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.05	0.52	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.05	0.53	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.03	0.51	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00