

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: P622033

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622033
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-WB-M-0U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

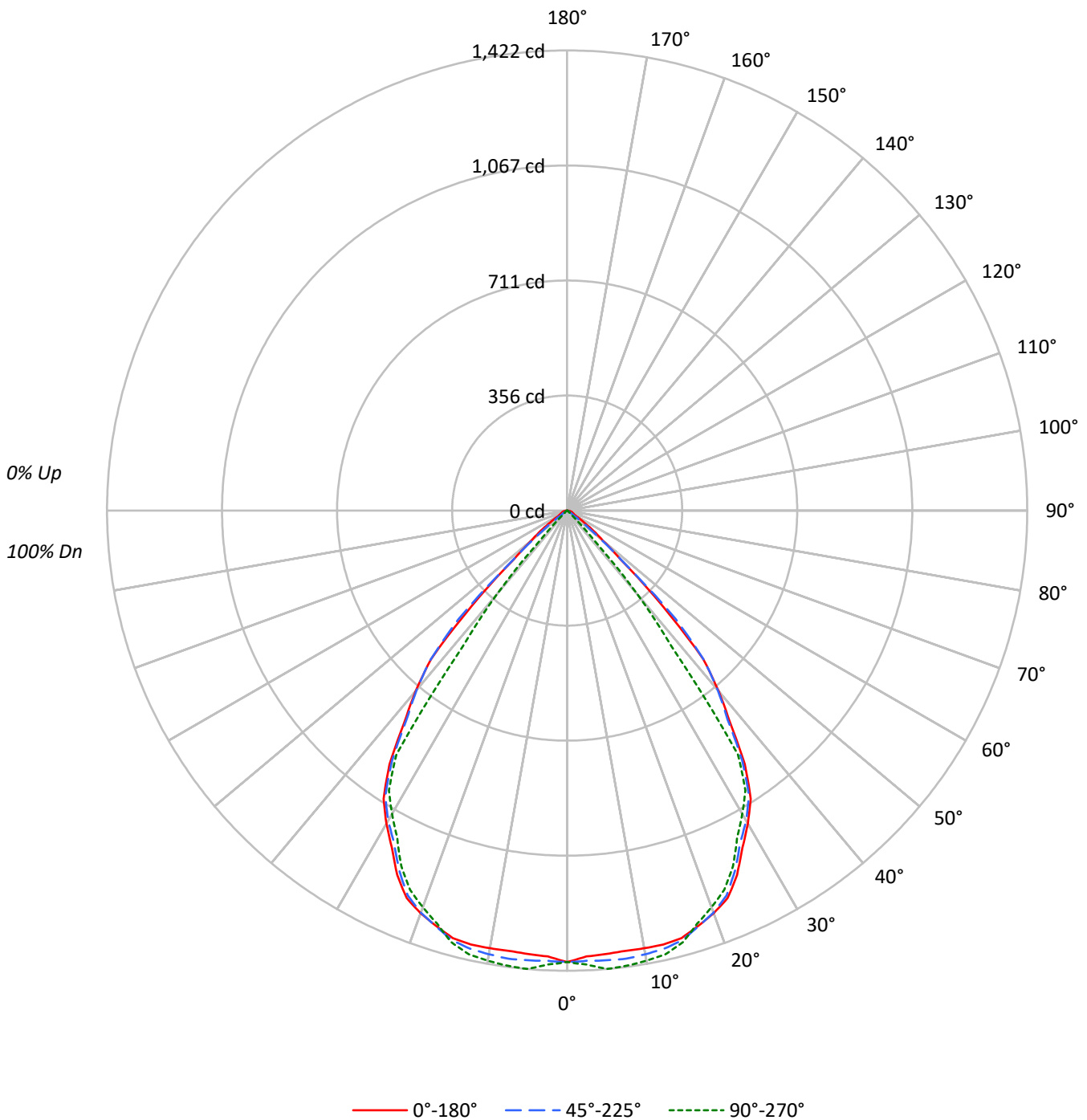
Lumens per Lamp: N/A
Luminaire Lumens: 1935.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	84				84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71				71
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	69	66	65				65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				55
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10010	10010	10010
5°	9907	10049	10241
10°	10007	10144	10295
15°	10159	10210	10261
20°	10110	10095	9959
25°	9834	9717	9600
30°	9252	9162	8966
35°	8381	8259	8060
40°	6816	6770	3200
45°	4218	4809	220
50°	1609	1289	132
55°	791	235	49
60°	383	113	14
65°	351	17	17
70°	332	21	21
75°	327	28	28
80°	326	41	0
85°	321	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	6.9
10°-20°	386.5	20.0
20°-30°	561.9	29.0
30°-40°	559.2	28.9
40°-50°	245.9	12.7
50°-60°	36.3	1.9
60°-70°	8.3	0.4
70°-80°	3.1	0.2
80°-90°	0.7	0.0
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°	1081.6	55.9
0°-40°	1640.8	84.8
0°-60°	1923.0	99.4
0°-90°	1935.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1375	1399	1395	1398	1422	131
15°	1367	1396	1374	1361	1381	384
25°	1242	1265	1227	1195	1212	568
35°	957	954	943	923	920	586
45°	416	473	474	31	22	322
55°	63	68	19	7	4	64
65°	21	18	1	1	1	21
75°	12	2	1	1	1	12
85°	4	0	0	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1379.2	1400.1	1392.6	1392.1	1404.5
5°	1375.3	1399.4	1395.0	1398.5	1421.7
7.5°	1372.5	1396.8	1396.8	1395.2	1418.3
10°	1373.3	1398.4	1392.1	1389.6	1412.8
12.5°	1373.3	1399.9	1386.5	1380.2	1404.1
15°	1367.4	1396.3	1374.3	1360.9	1381.2
17.5°	1346.0	1377.5	1347.2	1321.2	1338.2
20°	1323.9	1357.7	1322.0	1288.7	1304.2
22.5°	1296.3	1326.2	1287.2	1252.4	1268.6
25°	1242.0	1265.2	1227.2	1195.0	1212.4
27.5°	1173.5	1186.2	1157.9	1126.9	1138.1
30°	1116.6	1126.3	1105.7	1076.3	1082.1
32.5°	1055.8	1062.4	1045.7	1020.2	1025.2
35°	956.7	953.8	942.8	923.0	920.1
37.5°	827.1	822.1	815.1	738.5	529.6
40°	727.6	729.6	722.7	451.6	341.6
42.5°	622.6	634.5	624.7	307.5	111.8
45°	415.6	472.6	473.9	31.4	21.7
47.5°	224.7	286.7	233.2	19.5	15.8
50°	144.1	179.9	115.5	14.7	11.8
52.5°	103.1	120.3	45.2	11.6	8.7
55°	63.2	68.0	18.8	6.8	3.9
57.5°	37.7	44.9	11.8	2.5	1.0
60°	26.7	31.5	7.9	1.0	1.0
62.5°	23.5	23.7	5.5	1.0	1.0
65°	20.7	17.8	1.0	1.0	1.0
67.5°	18.2	13.0	1.0	1.0	1.0
70°	15.8	9.0	1.0	1.0	1.0
72.5°	14.2	5.9	1.0	1.0	1.0
75°	11.8	2.2	1.0	1.0	1.0
77.5°	9.5	1.2	1.0	0.8	0.8
80°	7.9	1.1	1.0	0.0	0.0
82.5°	6.3	1.1	0.2	0.0	0.0
85°	3.9	0.1	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	0.0	0.0
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	4.25	5.33	4.61	5.64	5.96	0.00	0.00	0.00	0.00	0.00
	3H	4.70	5.65	5.09	5.98	6.35	0.00	0.00	0.00	0.00	0.00
	4H	4.87	5.75	5.28	6.10	6.49	0.00	0.00	0.00	0.00	0.00
	6H	5.07	5.87	5.49	6.24	6.64	0.00	0.00	0.00	0.00	0.00
	8H	5.16	5.91	5.59	6.30	6.71	0.00	0.00	0.00	0.00	0.00
	12H	5.23	5.95	5.66	6.33	6.76	0.00	0.00	0.00	0.00	0.00
4H	2H	3.98	4.85	4.38	5.21	5.60	0.00	0.00	0.00	0.00	0.00
	3H	4.47	5.18	4.88	5.58	5.99	0.00	0.00	0.00	0.00	0.00
	4H	4.64	5.27	5.08	5.69	6.14	0.00	0.00	0.00	0.00	0.00
	6H	4.88	5.41	5.35	5.86	6.34	0.00	0.00	0.00	0.00	0.00
	8H	4.99	5.49	5.47	5.94	6.42	0.00	0.00	0.00	0.00	0.00
	12H	5.11	5.54	5.60	6.03	6.51	0.00	0.00	0.00	0.00	0.00
8H	4H	4.47	4.97	4.95	5.42	5.90	0.00	0.00	0.00	0.00	0.00
	6H	4.70	5.10	5.21	5.60	6.09	0.00	0.00	0.00	0.00	0.00
	8H	4.82	5.18	5.35	5.70	6.20	0.00	0.00	0.00	0.00	0.00
	12H	4.96	5.28	5.48	5.78	6.36	0.00	0.00	0.00	0.00	0.00
12H	4H	4.41	4.85	4.90	5.33	5.81	0.00	0.00	0.00	0.00	0.00
	6H	4.63	4.99	5.16	5.51	6.00	0.00	0.00	0.00	0.00	0.00
	8H	4.77	5.08	5.29	5.58	6.16	0.00	0.00	0.00	0.00	0.00