

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: P622055

Luminaire Tested: VLT-WB-M-100U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622055
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, 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-100U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

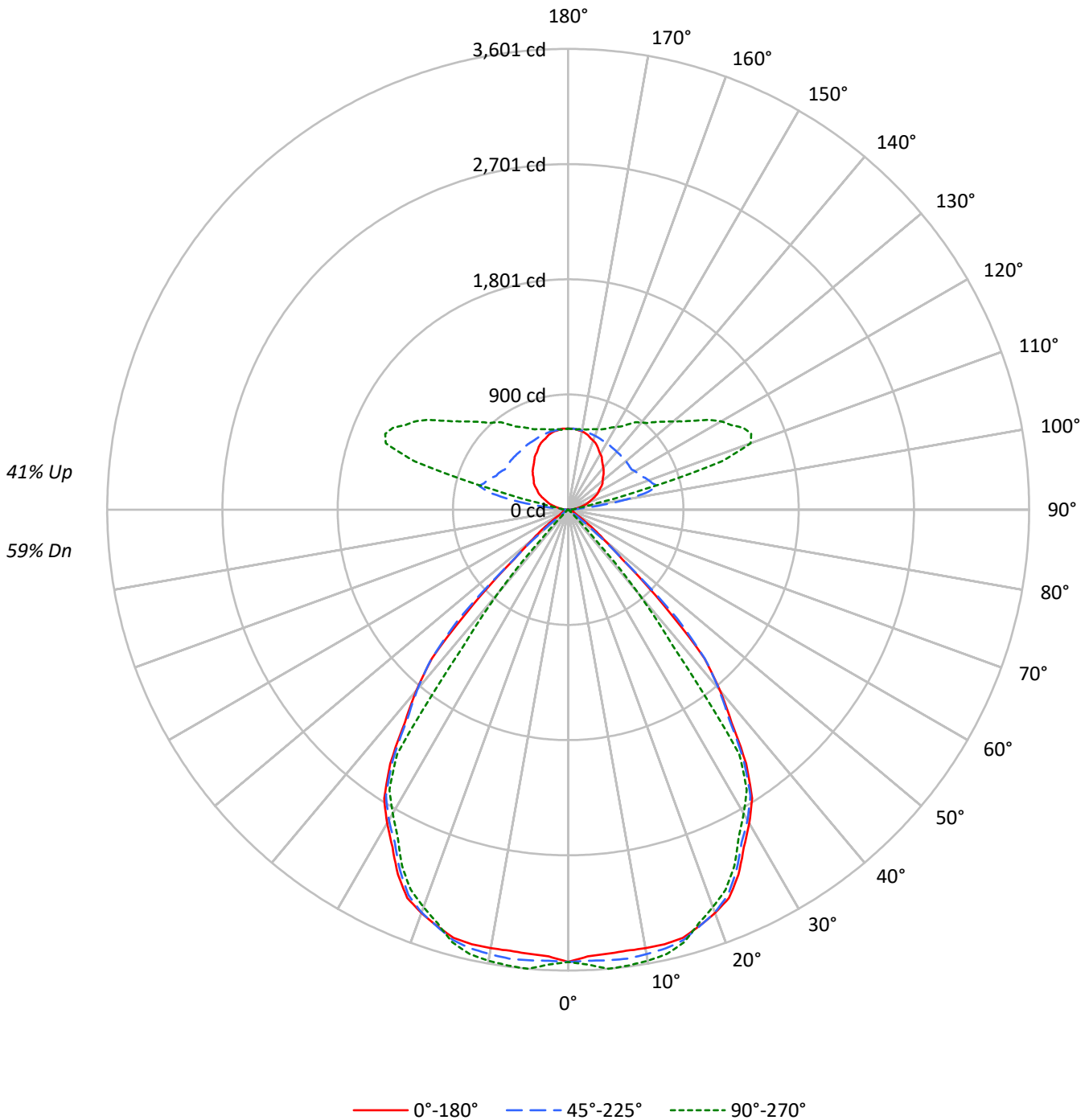
Lumens per Lamp: N/A
Luminaire Lumens: 8309.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.8
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										
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	50	30	10	0														
RCR																																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59																				
1	102	99	96	93	95	93	90	88	81	79	77	70	69	68	61	60	59	54																				
2	95	89	84	80	89	84	80	76	74	71	68	65	63	61	57	55	54	50																				
3	89	81	75	70	83	76	71	67	68	64	61	60	57	55	53	51	49	46																				
4	83	74	67	62	77	70	64	59	62	58	54	55	52	49	49	47	45	42																				
5	77	67	60	55	72	64	58	53	57	53	49	51	48	45	46	43	41	38																				
6	72	62	55	50	68	59	52	48	53	48	44	47	44	41	42	40	37	35																				
7	67	57	50	45	63	54	48	43	49	44	40	44	40	37	40	37	34	32																				
8	63	52	45	41	59	50	44	39	45	40	37	41	37	34	37	34	32	30																				
9	59	48	42	37	56	46	40	36	42	37	34	38	34	32	35	32	29	27																				
10	56	45	38	34	53	43	37	33	39	34	31	36	32	29	33	29	27	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25358	25358	25358
5°	25094	25454	25941
10°	25347	25694	26077
15°	25731	25861	25991
20°	25610	25572	25228
25°	24909	24612	24315
30°	23436	23208	22711
35°	21229	20922	20418
40°	17265	17148	8106
45°	10684	12182	558
50°	4076	3267	335
55°	2003	594	125
60°	969	287	36
65°	891	42	42
70°	839	52	52
75°	832	69	69
80°	826	103	0
85°	823	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.5	4.1
10°-20°	979.0	11.8
20°-30°	1423.4	17.1
30°-40°	1416.5	17.0
40°-50°	622.9	7.5
50°-60°	91.9	1.1
60°-70°	21.0	0.3
70°-80°	7.8	0.1
80°-90°	3.2	0.0
90°-100°	78.0	0.9
100°-110°	555.6	6.7
110°-120°	754.3	9.1
120°-130°	613.9	7.4
130°-140°	493.8	5.9
140°-150°	389.3	4.7
150°-160°	284.7	3.4
160°-170°	176.8	2.1
170°-180°	60.3	0.7
0°-30°	2739.8	33.0
0°-40°	4156.3	50.0
0°-60°	4871.1	58.6
0°-90°	4903.2	59.0
90°-120°	1387.9	16.7
90°-150°	2884.9	34.7
90°-180°	3407.0	41.0
0°-180°	8309.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3534	3534	3534	3534	3534	
5°	3484	3545	3534	3542	3601	332
15°	3464	3537	3481	3447	3499	974
25°	3146	3205	3108	3027	3071	1438
35°	2423	2416	2388	2338	2331	1484
45°	1053	1197	1200	80	55	815
55°	160	172	48	17	10	162
65°	52	45	2	2	2	52
75°	30	6	2	2	2	32
85°	10	0	0	0	0	10
90°	0	4	8	12	12	2
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°	3533.7	3533.7	3533.7	3533.7	3533.7
2.5°	3493.6	3546.5	3527.7	3526.4	3557.7
5°	3483.6	3544.8	3533.7	3542.5	3601.2
7.5°	3476.6	3538.3	3538.2	3534.0	3592.7
10°	3478.6	3542.2	3526.2	3520.0	3578.7
12.5°	3478.6	3546.1	3512.1	3496.0	3556.7
15°	3463.6	3537.0	3481.1	3447.3	3498.6
17.5°	3409.6	3489.3	3412.6	3346.6	3389.6
20°	3353.6	3439.2	3348.6	3264.5	3303.6
22.5°	3283.6	3359.4	3260.6	3172.5	3213.5
25°	3146.0	3204.7	3108.5	3027.0	3071.0
27.5°	2972.5	3004.7	2933.0	2854.6	2882.9
30°	2828.4	2852.9	2800.9	2726.2	2740.9
32.5°	2674.4	2691.0	2648.9	2584.1	2596.8
35°	2423.3	2416.0	2388.3	2338.1	2330.8
37.5°	2095.2	2082.5	2064.7	1870.6	1341.4
40°	1843.1	1848.0	1830.6	1144.0	865.3
42.5°	1577.0	1607.3	1582.5	779.0	283.1
45°	1052.8	1197.1	1200.4	79.5	55.0
47.5°	569.2	726.2	590.7	49.3	40.0
50°	365.1	455.6	292.6	37.3	30.0
52.5°	261.1	304.6	114.5	29.3	22.0
55°	160.1	172.3	47.5	17.3	10.0
57.5°	95.5	113.6	30.0	6.4	2.5
60°	67.5	79.7	20.0	2.5	2.5
62.5°	59.5	60.0	14.0	2.5	2.5
65°	52.5	45.2	2.5	2.5	2.5
67.5°	46.0	32.8	2.5	2.5	2.5
70°	40.0	22.9	2.5	2.5	2.5
72.5°	36.0	15.0	2.5	2.5	2.5
75°	30.0	5.6	2.5	2.5	2.5
77.5°	24.0	3.0	2.5	2.0	2.0
80°	20.0	2.9	2.5	0.0	0.0
82.5°	16.0	2.8	0.5	0.0	0.0
85°	10.0	0.2	0.0	0.0	0.0
87.5°	4.0	0.9	1.6	2.4	2.4
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	4.04	4.77	4.96	5.67	6.83	0.00	0.00	0.00	0.00	0.00
	3H	4.48	5.13	5.41	6.04	7.22	0.00	0.00	0.00	0.00	0.00
	4H	4.64	5.25	5.58	6.17	7.36	0.00	0.00	0.00	0.00	0.00
	6H	4.82	5.38	5.78	6.31	7.51	0.00	0.00	0.00	0.00	0.00
	8H	4.91	5.43	5.87	6.38	7.57	0.00	0.00	0.00	0.00	0.00
	12H	4.97	5.47	5.94	6.41	7.63	0.00	0.00	0.00	0.00	0.00
4H	2H	3.74	4.35	4.69	5.27	6.46	0.00	0.00	0.00	0.00	0.00
	3H	4.21	4.71	5.17	5.67	6.87	0.00	0.00	0.00	0.00	0.00
	4H	4.39	4.84	5.35	5.79	7.02	0.00	0.00	0.00	0.00	0.00
	6H	4.62	5.01	5.60	5.98	7.21	0.00	0.00	0.00	0.00	0.00
	8H	4.74	5.10	5.71	6.06	7.30	0.00	0.00	0.00	0.00	0.00
	12H	4.85	5.17	5.84	6.15	7.39	0.00	0.00	0.00	0.00	0.00
8H	4H	4.22	4.58	5.19	5.54	6.78	0.00	0.00	0.00	0.00	0.00
	6H	4.45	4.74	5.45	5.75	6.99	0.00	0.00	0.00	0.00	0.00
	8H	4.59	4.84	5.59	5.84	7.09	0.00	0.00	0.00	0.00	0.00
	12H	4.72	4.95	5.73	5.93	7.24	0.00	0.00	0.00	0.00	0.00
12H	4H	4.15	4.47	5.14	5.45	6.69	0.00	0.00	0.00	0.00	0.00
	6H	4.39	4.65	5.40	5.64	6.90	0.00	0.00	0.00	0.00	0.00
	8H	4.52	4.75	5.53	5.73	7.04	0.00	0.00	0.00	0.00	0.00