

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: P622056

Luminaire Tested: VLT-WB-M-100U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622056
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8544.6 lumens
Efficiency: N/A
Efficacy: 103.2 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

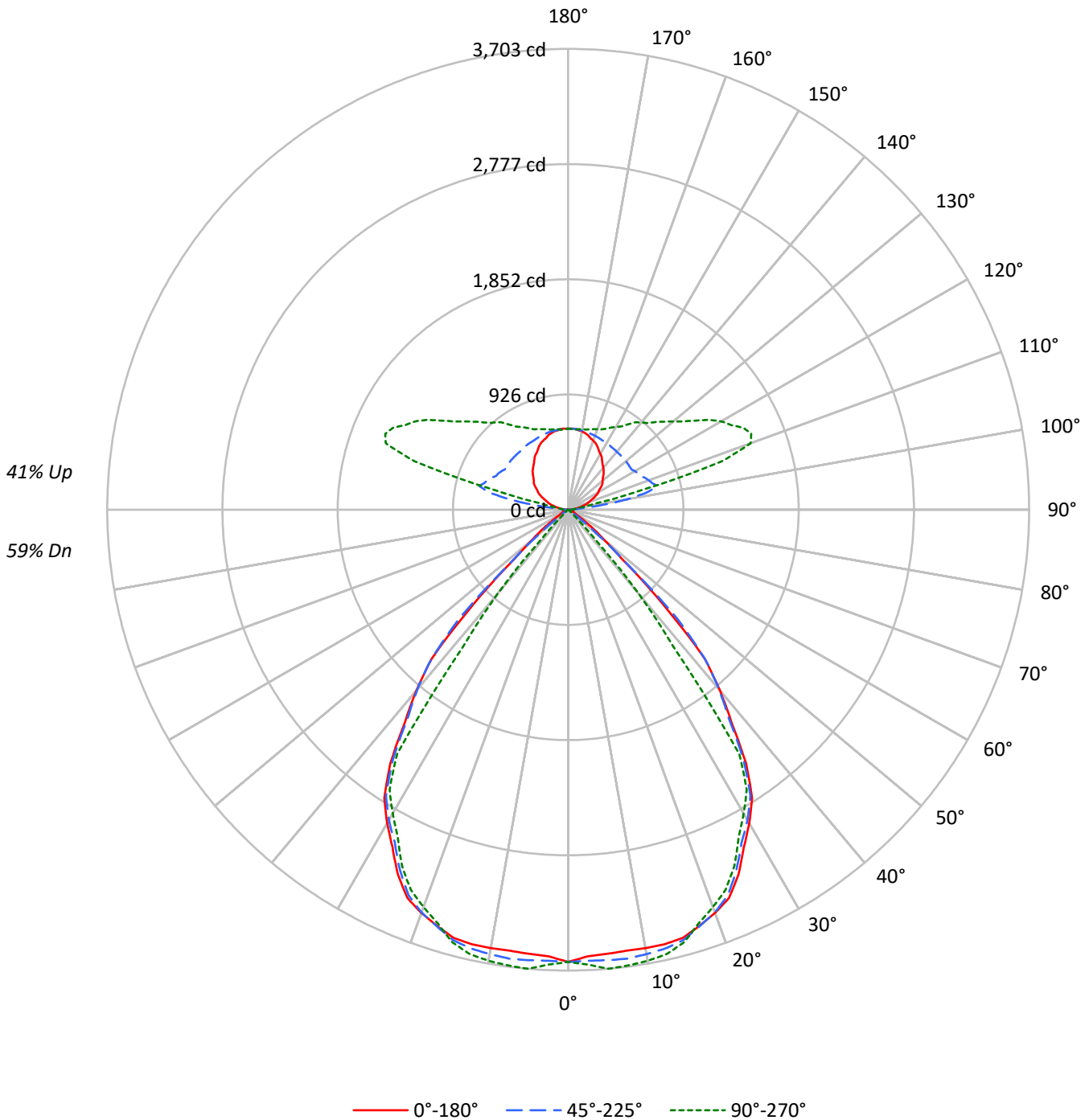
Input Watts (W): 82.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	26073	26073	26073
5°	25802	26173	26673
10°	26064	26419	26813
15°	26458	26592	26725
20°	26333	26294	25940
25°	25613	25308	25002
30°	24098	23864	23353
35°	21828	21512	20995
40°	17752	17632	8334
45°	10987	12526	574
50°	4191	3359	345
55°	2059	612	129
60°	996	296	37
65°	917	44	44
70°	862	55	55
75°	857	72	72
80°	851	107	0
85°	848	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	4.1
10°-20°	1006.6	11.8
20°-30°	1463.6	17.1
30°-40°	1456.5	17.0
40°-50°	640.5	7.5
50°-60°	94.6	1.1
60°-70°	21.6	0.3
70°-80°	8.1	0.1
80°-90°	3.3	0.0
90°-100°	80.2	0.9
100°-110°	571.3	6.7
110°-120°	775.6	9.1
120°-130°	631.3	7.4
130°-140°	507.7	5.9
140°-150°	400.3	4.7
150°-160°	292.7	3.4
160°-170°	181.8	2.1
170°-180°	62.0	0.7
0°-30°	2817.2	33.0
0°-40°	4273.7	50.0
0°-60°	5008.7	58.6
0°-90°	5041.7	59.0
90°-120°	1427.1	16.7
90°-150°	2966.4	34.7
90°-180°	3503.0	41.0
0°-180°	8544.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3582	3645	3633	3642	3703	342
15°	3561	3637	3579	3545	3597	1001
25°	3235	3295	3196	3112	3158	1479
35°	2492	2484	2456	2404	2397	1525
45°	1083	1231	1234	82	57	838
55°	165	177	49	18	10	166
65°	54	46	3	3	3	54
75°	31	6	3	3	3	33
85°	10	0	0	0	0	11
90°	0	4	8	12	12	2
95°	33	61	33	37	45	37
105°	127	195	742	948	628	134
115°	226	274	640	1330	1554	224
125°	324	368	603	1054	1247	288
135°	402	446	607	868	997	309
145°	476	516	611	756	837	299
155°	558	578	623	686	718	256
165°	619	627	640	656	668	174
175°	652	656	652	648	644	62
180°	652	652	652	652	652	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3633.4	3633.4	3633.4	3633.4	3633.4
2.5°	3592.3	3646.6	3627.3	3625.9	3658.1
5°	3582.0	3644.9	3633.4	3642.5	3702.9
7.5°	3574.8	3638.2	3638.1	3633.8	3694.1
10°	3576.9	3642.2	3625.7	3619.4	3679.7
12.5°	3576.9	3646.3	3611.3	3594.7	3657.1
15°	3561.4	3636.9	3579.4	3544.6	3597.4
17.5°	3505.9	3587.9	3509.0	3441.1	3485.3
20°	3448.3	3536.3	3443.2	3356.6	3396.9
22.5°	3376.3	3454.2	3352.6	3262.1	3304.3
25°	3234.9	3295.2	3196.3	3112.5	3157.7
27.5°	3056.4	3089.6	3015.8	2935.2	2964.4
30°	2908.3	2933.4	2880.0	2803.2	2818.3
32.5°	2749.9	2767.0	2723.7	2657.1	2670.2
35°	2491.7	2484.2	2455.7	2404.1	2396.6
37.5°	2154.4	2141.3	2123.0	1923.4	1379.3
40°	1895.1	1900.2	1882.3	1176.3	889.7
42.5°	1621.5	1652.7	1627.2	801.0	291.1
45°	1082.6	1230.9	1234.3	81.7	56.6
47.5°	585.3	746.7	607.4	50.7	41.1
50°	375.4	468.5	300.9	38.4	30.9
52.5°	268.5	313.2	117.8	30.2	22.6
55°	164.6	177.1	48.9	17.8	10.3
57.5°	98.2	116.8	30.9	6.6	2.6
60°	69.4	82.0	20.6	2.6	2.6
62.5°	61.2	61.7	14.4	2.6	2.6
65°	54.0	46.5	2.6	2.6	2.6
67.5°	47.3	33.7	2.6	2.6	2.6
70°	41.1	23.5	2.6	2.6	2.6
72.5°	37.0	15.4	2.6	2.6	2.6
75°	30.9	5.7	2.6	2.6	2.6
77.5°	24.7	3.1	2.6	2.1	2.1
80°	20.6	3.0	2.6	0.0	0.0
82.5°	16.5	2.9	0.5	0.0	0.0
85°	10.3	0.2	0.0	0.0	0.0
87.5°	4.1	0.9	1.6	2.5	2.5
90°	0.0	4.0	8.2	12.3	12.3
92.5°	9.8	13.9	18.0	25.5	28.7
95°	32.8	60.9	32.8	37.1	45.1
97.5°	58.2	116.8	241.2	71.1	61.5
100°	77.9	146.1	483.9	142.5	94.3
102.5°	97.6	169.0	654.6	375.9	205.9
105°	127.1	195.3	742.3	948.3	627.5
107.5°	156.7	208.0	708.7	1380.1	1292.7
110°	176.4	224.5	689.0	1450.2	1558.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	196.0	244.2	669.3	1409.2	1591.3
115°	225.6	273.7	639.8	1329.8	1554.4
117.5°	255.9	303.2	632.4	1243.8	1474.8
120°	278.9	323.0	619.3	1178.4	1419.0
122.5°	295.3	342.6	602.9	1122.2	1343.6
125°	324.0	368.1	602.9	1054.3	1246.8
127.5°	347.8	392.7	603.7	975.5	1165.6
130°	360.9	409.0	607.0	922.8	1103.2
132.5°	377.3	425.4	607.0	899.1	1047.5
135°	401.9	446.0	607.0	868.3	996.6
137.5°	422.4	469.7	607.0	834.2	944.1
140°	438.8	482.9	607.0	814.3	914.6
142.5°	455.2	496.1	610.3	791.2	885.1
145°	475.7	515.8	611.1	756.5	836.7
147.5°	500.4	535.6	616.0	731.4	793.2
150°	516.8	548.8	619.3	714.8	766.9
152.5°	533.2	562.0	619.3	701.5	744.0
155°	557.8	577.8	623.4	685.6	717.7
157.5°	577.5	596.7	628.3	675.6	698.9
160°	590.6	606.6	631.6	669.0	689.0
162.5°	600.4	616.5	634.9	665.5	679.2
165°	619.3	627.3	639.8	656.5	668.5
167.5°	630.0	637.2	643.9	652.3	659.5
170°	639.8	643.8	643.9	652.2	656.2
172.5°	643.1	650.3	647.2	648.9	652.9
175°	652.1	656.1	652.1	647.9	643.9
177.5°	652.1	655.3	652.1	652.0	648.8
180°	652.1	652.1	652.1	652.1	652.1



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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	4.13	4.87	5.05	5.77	6.92	0.00	0.00	0.00	0.00	0.00
	3H	4.57	5.22	5.50	6.14	7.32	0.00	0.00	0.00	0.00	0.00
	4H	4.73	5.34	5.68	6.26	7.45	0.00	0.00	0.00	0.00	0.00
	6H	4.92	5.48	5.87	6.40	7.60	0.00	0.00	0.00	0.00	0.00
	8H	5.00	5.53	5.96	6.47	7.67	0.00	0.00	0.00	0.00	0.00
	12H	5.07	5.57	6.03	6.51	7.72	0.00	0.00	0.00	0.00	0.00
4H	2H	3.83	4.44	4.78	5.36	6.55	0.00	0.00	0.00	0.00	0.00
	3H	4.31	4.81	5.27	5.76	6.96	0.00	0.00	0.00	0.00	0.00
	4H	4.48	4.94	5.45	5.89	7.11	0.00	0.00	0.00	0.00	0.00
	6H	4.72	5.10	5.69	6.07	7.30	0.00	0.00	0.00	0.00	0.00
	8H	4.84	5.20	5.81	6.16	7.40	0.00	0.00	0.00	0.00	0.00
	12H	4.94	5.27	5.94	6.25	7.49	0.00	0.00	0.00	0.00	0.00
8H	4H	4.31	4.67	5.29	5.64	6.87	0.00	0.00	0.00	0.00	0.00
	6H	4.55	4.84	5.55	5.85	7.08	0.00	0.00	0.00	0.00	0.00
	8H	4.68	4.94	5.69	5.94	7.19	0.00	0.00	0.00	0.00	0.00
	12H	4.82	5.05	5.83	6.03	7.34	0.00	0.00	0.00	0.00	0.00
12H	4H	4.24	4.56	5.23	5.54	6.79	0.00	0.00	0.00	0.00	0.00
	6H	4.49	4.75	5.50	5.74	7.00	0.00	0.00	0.00	0.00	0.00
	8H	4.62	4.84	5.62	5.83	7.13	0.00	0.00	0.00	0.00	0.00