

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: P622032

Luminaire Tested: VLT-WB-M-075U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622032
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-075U-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

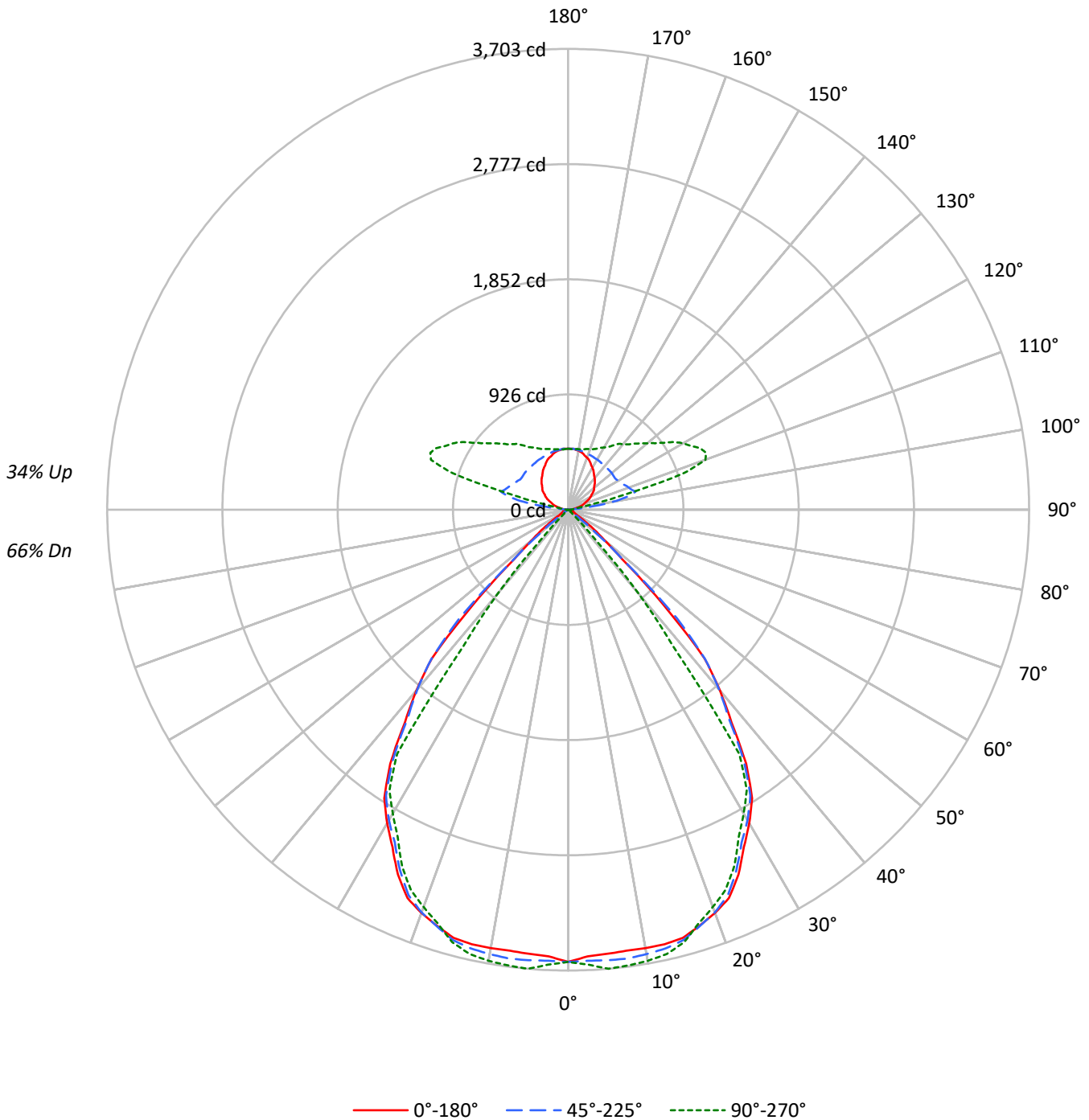
Lumens per Lamp: N/A
Luminaire Lumens: 7678.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.2
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	104	101	98	95	98	95	92	90	85	83	81	75	74	73	66	66	65	61				
2	97	91	86	82	92	87	82	79	78	75	72	70	67	65	62	60	59	55				
3	91	83	77	72	86	79	74	70	71	67	64	64	61	59	58	56	54	51				
4	85	76	69	64	80	72	66	62	66	61	58	60	56	53	54	51	49	46				
5	79	69	62	57	75	66	60	56	60	56	52	55	51	48	50	47	45	42				
6	74	64	57	52	70	61	55	50	56	51	47	51	47	44	47	44	41	39				
7	69	59	52	47	66	56	50	46	52	47	43	48	43	40	44	40	38	36				
8	65	54	47	43	62	52	46	42	48	43	39	44	40	37	41	37	35	33				
9	61	50	43	39	58	48	42	38	45	40	36	41	37	34	38	35	32	31				
10	57	47	40	36	55	45	39	35	42	37	33	39	35	32	36	32	30	28				

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	4.5
10°-20°	1006.6	13.1
20°-30°	1463.6	19.1
30°-40°	1456.5	19.0
40°-50°	640.5	8.3
50°-60°	94.6	1.2
60°-70°	21.6	0.3
70°-80°	8.1	0.1
80°-90°	3.0	0.0
90°-100°	60.4	0.8
100°-110°	430.1	5.6
110°-120°	583.9	7.6
120°-130°	475.3	6.2
130°-140°	382.3	5.0
140°-150°	301.4	3.9
150°-160°	220.3	2.9
160°-170°	136.9	1.8
170°-180°	46.7	0.6
0°-30°	2817.2	36.7
0°-40°	4273.7	55.7
0°-60°	5008.7	65.2
0°-90°	5041.3	65.7
90°-120°	1074.4	14.0
90°-150°	2233.3	29.1
90°-180°	2637.0	34.3
0°-180°	7678.5	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	3	6	9	9	2
95°	25	46	25	28	34	28
105°	96	147	559	714	472	101
115°	170	206	482	1001	1170	169
125°	244	277	454	794	939	217
135°	303	336	457	654	750	233
145°	358	388	460	570	630	225
155°	420	435	469	516	540	193
165°	466	472	482	494	503	131
175°	491	494	491	488	485	46
180°	491	491	491	491	491	



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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	0.7	1.2	1.9	1.9
90°	0.0	3.0	6.2	9.3	9.3
92.5°	7.4	10.4	13.6	19.2	21.6
95°	24.7	45.8	24.7	27.9	34.0
97.5°	43.8	87.9	181.6	53.6	46.3
100°	58.7	110.0	364.3	107.2	71.0
102.5°	73.5	127.2	492.8	283.0	155.0
105°	95.7	147.0	558.9	713.9	472.4
107.5°	117.9	156.6	533.5	1039.0	973.2
110°	132.8	169.0	518.7	1091.8	1173.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.6	183.8	503.9	1060.9	1198.0
115°	169.8	206.0	481.7	1001.2	1170.2
117.5°	192.7	228.3	476.1	936.4	1110.3
120°	210.0	243.2	466.2	887.2	1068.3
122.5°	222.3	257.9	453.9	844.9	1011.5
125°	243.9	277.1	453.9	793.7	938.6
127.5°	261.8	295.6	454.5	734.4	877.5
130°	271.7	307.9	457.0	694.7	830.6
132.5°	284.1	320.3	457.0	676.9	788.6
135°	302.6	335.8	457.0	653.7	750.3
137.5°	318.0	353.7	457.0	628.1	710.8
140°	330.4	363.6	457.0	613.1	688.5
142.5°	342.7	373.5	459.4	595.7	666.3
145°	358.2	388.4	460.1	569.5	629.9
147.5°	376.7	403.3	463.8	550.7	597.2
150°	389.0	413.2	466.2	538.1	577.4
152.5°	401.4	423.1	466.2	528.1	560.1
155°	419.9	435.0	469.3	516.2	540.3
157.5°	434.7	449.2	473.0	508.6	526.1
160°	444.6	456.7	475.5	503.6	518.7
162.5°	452.0	464.1	478.0	501.0	511.3
165°	466.2	472.3	481.7	494.2	503.3
167.5°	474.3	479.7	484.8	491.1	496.5
170°	481.7	484.7	484.8	491.0	494.0
172.5°	484.1	489.6	487.2	488.5	491.6
175°	490.9	494.0	490.9	487.8	484.8
177.5°	490.9	493.4	490.9	490.9	488.5
180°	490.9	490.9	490.9	490.9	490.9



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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	4.72	5.49	5.58	6.33	7.38	0.00	0.00	0.00	0.00	0.00
	3H	5.16	5.84	6.03	6.69	7.77	0.00	0.00	0.00	0.00	0.00
	4H	5.32	5.96	6.21	6.82	7.90	0.00	0.00	0.00	0.00	0.00
	6H	5.51	6.09	6.40	6.96	8.05	0.00	0.00	0.00	0.00	0.00
	8H	5.60	6.15	6.49	7.03	8.12	0.00	0.00	0.00	0.00	0.00
	12H	5.66	6.19	6.56	7.06	8.18	0.00	0.00	0.00	0.00	0.00
4H	2H	4.42	5.06	5.31	5.92	7.00	0.00	0.00	0.00	0.00	0.00
	3H	4.90	5.42	5.79	6.32	7.41	0.00	0.00	0.00	0.00	0.00
	4H	5.08	5.55	5.98	6.44	7.56	0.00	0.00	0.00	0.00	0.00
	6H	5.31	5.71	6.23	6.62	7.75	0.00	0.00	0.00	0.00	0.00
	8H	5.43	5.80	6.35	6.71	7.85	0.00	0.00	0.00	0.00	0.00
	12H	5.54	5.87	6.47	6.80	7.94	0.00	0.00	0.00	0.00	0.00
8H	4H	4.90	5.28	5.82	6.19	7.32	0.00	0.00	0.00	0.00	0.00
	6H	5.14	5.44	6.08	6.39	7.53	0.00	0.00	0.00	0.00	0.00
	8H	5.27	5.54	6.23	6.48	7.64	0.00	0.00	0.00	0.00	0.00
	12H	5.41	5.65	6.36	6.58	7.79	0.00	0.00	0.00	0.00	0.00
12H	4H	4.83	5.17	5.77	6.09	7.24	0.00	0.00	0.00	0.00	0.00
	6H	5.08	5.35	6.03	6.29	7.44	0.00	0.00	0.00	0.00	0.00
	8H	5.21	5.44	6.16	6.38	7.59	0.00	0.00	0.00	0.00	0.00