

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: P622008

Luminaire Tested: VLT-WB-M-025U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622008
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-025U-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

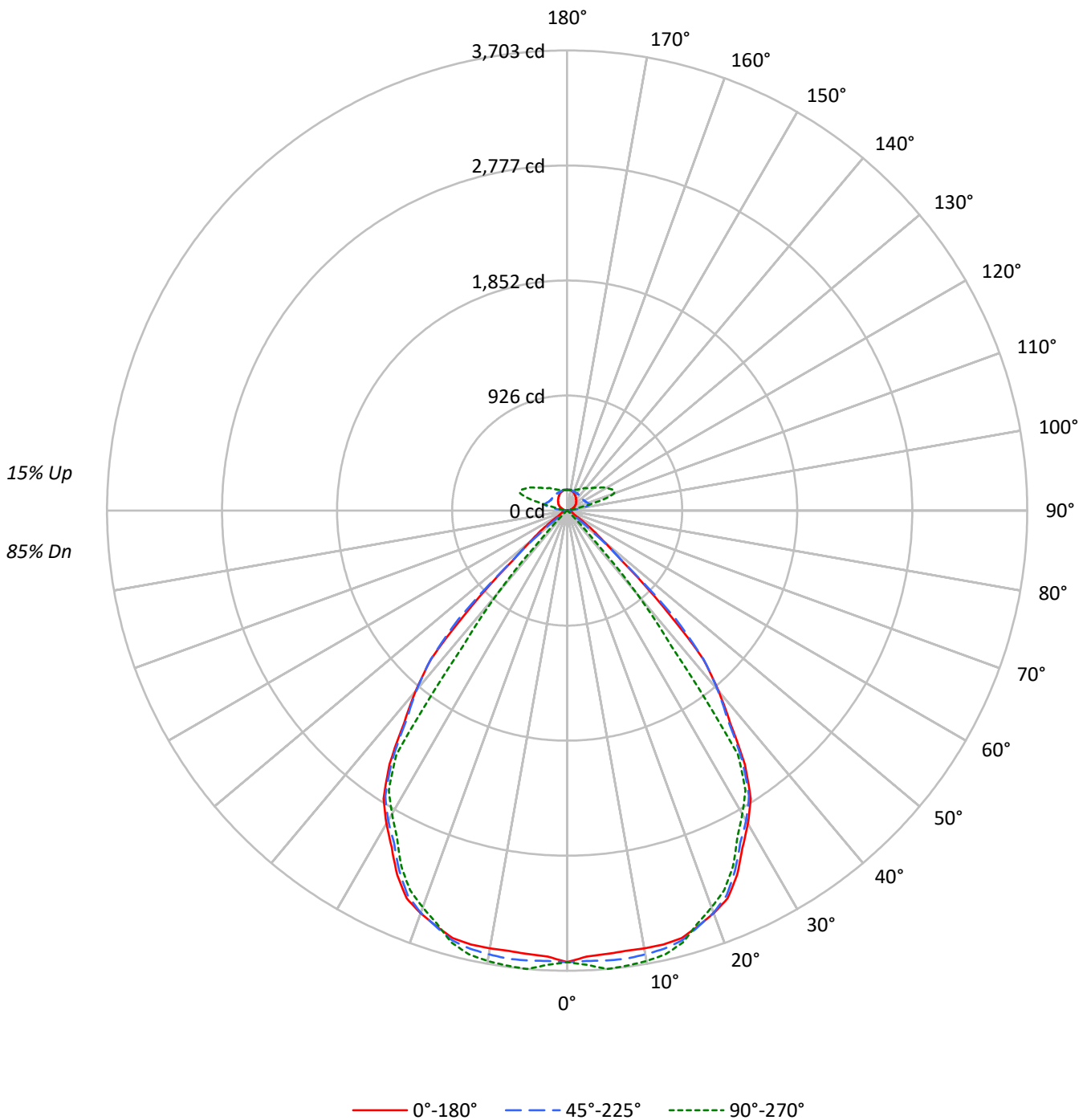
Lumens per Lamp: N/A
Luminaire Lumens: 5944.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.6
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	109	106	103	100	105	102	100	97	95	93	92	89	88	86	83	82	81	78
2	102	97	92	88	99	94	90	86	88	85	82	83	80	78	78	76	74	72
3	96	89	83	79	93	86	81	77	81	77	74	77	74	71	73	70	68	65
4	90	82	75	70	87	79	74	69	75	70	67	71	67	64	68	65	62	60
5	85	75	68	64	82	73	67	63	70	65	61	66	62	59	63	60	57	55
6	79	69	63	58	77	68	61	57	65	59	55	62	57	54	59	55	52	50
7	75	64	57	53	72	63	56	52	60	55	51	57	53	49	55	51	48	46
8	70	60	53	48	68	58	52	48	56	50	47	54	49	45	52	47	44	43
9	66	55	49	44	64	54	48	44	52	47	43	50	45	42	48	44	41	39
10	62	52	45	41	61	51	45	41	49	43	40	47	42	39	45	41	38	37

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	5.8
10°-20°	1006.6	16.9
20°-30°	1463.6	24.6
30°-40°	1456.5	24.5
40°-50°	640.5	10.8
50°-60°	94.6	1.6
60°-70°	21.6	0.4
70°-80°	8.1	0.1
80°-90°	2.2	0.0
90°-100°	20.7	0.3
100°-110°	147.4	2.5
110°-120°	200.2	3.4
120°-130°	162.9	2.7
130°-140°	131.0	2.2
140°-150°	103.3	1.7
150°-160°	75.5	1.3
160°-170°	46.9	0.8
170°-180°	16.0	0.3
0°-30°	2817.2	47.4
0°-40°	4273.7	71.9
0°-60°	5008.7	84.3
0°-90°	5040.6	84.8
90°-120°	368.3	6.2
90°-150°	765.5	12.9
90°-180°	904.0	15.2
0°-180°	5944.6	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	1	2	3	3	1
95°	8	16	8	10	12	9
105°	33	50	192	245	162	35
115°	58	71	165	343	401	58
125°	84	95	156	272	322	74
135°	104	115	157	224	257	80
145°	123	133	158	195	216	77
155°	144	149	161	177	185	66
165°	160	162	165	169	172	45
175°	168	169	168	167	166	16
180°	168	168	168	168	168	



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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	0.3	0.4	0.6	0.6
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.5	3.6	4.7	6.6	7.4
95°	8.5	15.7	8.5	9.6	11.6
97.5°	15.0	30.1	62.2	18.4	15.9
100°	20.1	37.7	124.9	36.8	24.3
102.5°	25.2	43.6	168.9	97.0	53.1
105°	32.8	50.4	191.6	244.7	161.9
107.5°	40.4	53.7	182.9	356.2	333.6
110°	45.5	57.9	177.8	374.3	402.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.6	63.0	172.7	363.7	410.7
115°	58.2	70.6	165.1	343.2	401.1
117.5°	66.0	78.3	163.2	321.0	380.6
120°	72.0	83.4	159.8	304.1	366.2
122.5°	76.2	88.4	155.6	289.6	346.7
125°	83.6	95.0	155.6	272.1	321.8
127.5°	89.8	101.3	155.8	251.7	300.8
130°	93.1	105.6	156.6	238.1	284.7
132.5°	97.4	109.8	156.6	232.0	270.3
135°	103.7	115.1	156.6	224.1	257.2
137.5°	109.0	121.2	156.6	215.3	243.6
140°	113.2	124.6	156.6	210.2	236.0
142.5°	117.5	128.0	157.5	204.2	228.4
145°	122.8	133.1	157.7	195.2	215.9
147.5°	129.1	138.2	159.0	188.8	204.7
150°	133.4	141.6	159.8	184.5	197.9
152.5°	137.6	145.0	159.8	181.0	192.0
155°	143.9	149.1	160.9	176.9	185.2
157.5°	149.0	154.0	162.1	174.3	180.4
160°	152.4	156.5	163.0	172.6	177.8
162.5°	155.0	159.1	163.8	171.8	175.3
165°	159.8	161.9	165.1	169.4	172.5
167.5°	162.6	164.4	166.2	168.3	170.2
170°	165.1	166.1	166.2	168.3	169.3
172.5°	166.0	167.8	167.0	167.5	168.5
175°	168.3	169.3	168.3	167.2	166.2
177.5°	168.3	169.1	168.3	168.3	167.4
180°	168.3	168.3	168.3	168.3	168.3



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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	6.31	7.22	6.94	7.82	8.51	0.00	0.00	0.00	0.00	0.00
	3H	6.76	7.56	7.40	8.18	8.90	0.00	0.00	0.00	0.00	0.00
	4H	6.93	7.67	7.59	8.30	9.04	0.00	0.00	0.00	0.00	0.00
	6H	7.12	7.80	7.79	8.44	9.19	0.00	0.00	0.00	0.00	0.00
	8H	7.21	7.85	7.89	8.51	9.26	0.00	0.00	0.00	0.00	0.00
	12H	7.28	7.89	7.96	8.54	9.31	0.00	0.00	0.00	0.00	0.00
4H	2H	6.03	6.77	6.69	7.40	8.14	0.00	0.00	0.00	0.00	0.00
	3H	6.51	7.12	7.18	7.79	8.54	0.00	0.00	0.00	0.00	0.00
	4H	6.69	7.23	7.37	7.91	8.69	0.00	0.00	0.00	0.00	0.00
	6H	6.92	7.39	7.63	8.09	8.89	0.00	0.00	0.00	0.00	0.00
	8H	7.04	7.47	7.75	8.17	8.97	0.00	0.00	0.00	0.00	0.00
	12H	7.15	7.53	7.88	8.26	9.07	0.00	0.00	0.00	0.00	0.00
8H	4H	6.52	6.95	7.23	7.65	8.45	0.00	0.00	0.00	0.00	0.00
	6H	6.75	7.10	7.49	7.84	8.65	0.00	0.00	0.00	0.00	0.00
	8H	6.88	7.19	7.63	7.94	8.76	0.00	0.00	0.00	0.00	0.00
	12H	7.02	7.29	7.77	8.02	8.92	0.00	0.00	0.00	0.00	0.00
12H	4H	6.45	6.83	7.18	7.55	8.36	0.00	0.00	0.00	0.00	0.00
	6H	6.68	6.99	7.44	7.74	8.56	0.00	0.00	0.00	0.00	0.00
	8H	6.82	7.09	7.57	7.82	8.71	0.00	0.00	0.00	0.00	0.00