

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: P621924

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621924
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-26)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-BB-M-025U-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK 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

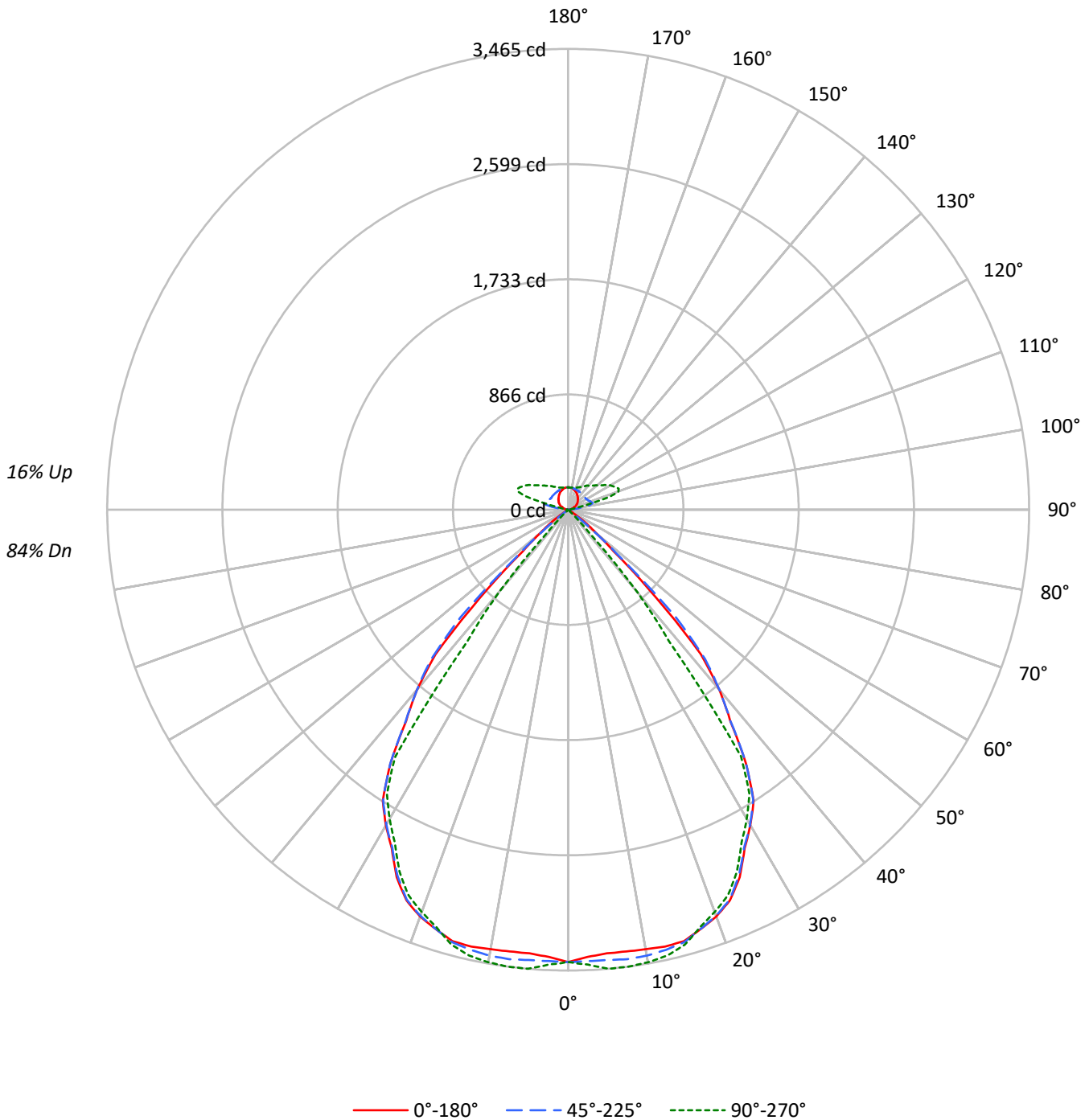
Lumens per Lamp: N/A
Luminaire Lumens: 5587.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	109	106	103	100	105	102	99	97	95	93	91	88	87	86	82	81	80	77																												
2	102	97	92	88	98	94	89	86	88	84	82	82	80	78	77	75	74	71																												
3	96	89	83	79	93	86	81	77	81	77	74	76	73	70	72	70	67	65																												
4	90	82	75	71	87	79	74	69	75	70	67	71	67	64	67	64	62	60																												
5	85	75	69	64	82	73	67	63	69	64	61	66	62	59	63	59	57	55																												
6	79	69	63	58	77	68	62	57	64	59	55	62	57	54	59	55	52	50																												
7	75	64	58	53	72	63	57	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	46	51	47	44	43																												
9	66	56	49	45	64	54	48	44	52	47	43	50	45	42	48	44	41	39																												
10	63	52	45	41	61	51	45	41	49	44	40	47	42	39	45	41	38	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24410	24410	24410
5°	24119	24484	24960
10°	24453	24804	25174
15°	24950	25007	25157
20°	24852	24814	24581
25°	24141	24041	23760
30°	22700	22657	22237
35°	20399	20421	19844
40°	16562	16562	7580
45°	9524	11584	154
50°	3002	2775	142
55°	1047	223	126
60°	73	145	145
65°	42	129	129
70°	52	159	159
75°	0	141	141
80°	0	211	211
85°	0	206	206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11584 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.0	5.8
10°-20°	948.5	17.0
20°-30°	1385.6	24.8
30°-40°	1372.2	24.6
40°-50°	574.5	10.3
50°-60°	61.5	1.1
60°-70°	8.6	0.2
70°-80°	5.2	0.1
80°-90°	2.9	0.1
90°-100°	20.7	0.4
100°-110°	147.4	2.6
110°-120°	200.2	3.6
120°-130°	162.9	2.9
130°-140°	131.0	2.3
140°-150°	103.3	1.8
150°-160°	75.5	1.4
160°-170°	46.9	0.8
170°-180°	16.0	0.3
0°-30°	2659.1	47.6
0°-40°	4031.3	72.1
0°-60°	4667.3	83.5
0°-90°	4684.0	83.8
90°-120°	368.3	6.6
90°-150°	765.5	13.7
90°-180°	904.0	16.2
0°-180°	5587.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3348	3408	3399	3408	3465	320
15°	3358	3428	3366	3342	3386	943
25°	3049	3101	3036	2964	3001	1392
35°	2329	2334	2331	2285	2265	1428
45°	938	1115	1142	23	15	736
55°	84	111	18	13	10	94
65°	2	10	8	8	8	3
75°	0	5	5	5	5	0
85°	0	2	2	2	2	0
90°	0	1	2	3	3	0
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°	3401.6	3401.6	3401.6	3401.6	3401.6
2.5°	3365.0	3412.7	3397.5	3394.1	3423.9
5°	3348.3	3407.8	3399.0	3407.9	3465.0
7.5°	3349.8	3404.9	3408.2	3407.9	3465.0
10°	3355.9	3413.0	3404.1	3397.8	3454.8
12.5°	3364.0	3423.1	3389.9	3379.5	3434.5
15°	3358.4	3427.9	3366.1	3341.7	3386.3
17.5°	3307.2	3387.6	3306.2	3259.2	3292.0
20°	3254.4	3338.8	3249.4	3184.2	3218.9
22.5°	3179.4	3257.7	3172.3	3097.1	3137.8
25°	3049.0	3101.1	3036.3	2963.6	3000.8
27.5°	2871.4	2901.2	2864.3	2798.9	2821.7
30°	2739.5	2759.4	2734.4	2668.8	2683.7
32.5°	2593.4	2603.3	2588.3	2528.6	2535.6
35°	2328.6	2333.5	2331.1	2285.0	2265.2
37.5°	2001.4	2011.3	2005.4	1805.0	1245.5
40°	1768.0	1777.9	1768.0	1057.2	809.2
42.5°	1475.8	1539.3	1522.5	720.9	230.8
45°	938.5	1114.6	1141.5	22.7	15.2
47.5°	463.7	653.7	536.7	14.7	14.7
50°	268.9	385.4	248.6	12.7	12.7
52.5°	179.6	234.7	72.0	12.7	12.7
55°	83.7	111.0	17.8	12.6	10.1
57.5°	29.4	55.7	12.2	10.1	10.1
60°	5.1	27.4	10.1	10.1	10.1
62.5°	3.0	15.4	10.1	8.2	10.1
65°	2.5	10.0	7.6	7.6	7.6
67.5°	2.5	7.5	7.6	7.6	7.6
70°	2.5	7.5	7.6	7.6	7.6
72.5°	0.5	5.5	5.6	5.6	7.6
75°	0.0	5.0	5.1	5.1	5.1
77.5°	0.0	5.0	5.1	5.1	5.1
80°	0.0	5.0	5.1	5.1	5.1
82.5°	0.0	3.0	3.0	3.1	5.1
85°	0.0	2.5	2.5	2.5	2.5
87.5°	0.0	2.2	2.5	2.7	2.7
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	1.43	2.32	2.07	2.93	3.63	0.00	0.00	0.00	0.00	0.00
	3H	1.30	2.08	1.95	2.71	3.45	0.00	0.00	0.00	0.00	0.00
	4H	1.21	1.94	1.88	2.58	3.34	0.00	0.00	0.00	0.00	0.00
	6H	1.11	1.78	1.79	2.43	3.20	0.00	0.00	0.00	0.00	0.00
	8H	1.06	1.68	1.75	2.36	3.13	0.00	0.00	0.00	0.00	0.00
	12H	1.00	1.60	1.70	2.26	3.05	0.00	0.00	0.00	0.00	0.00
4H	2H	1.17	1.90	1.84	2.54	3.30	0.00	0.00	0.00	0.00	0.00
	3H	1.09	1.69	1.78	2.37	3.14	0.00	0.00	0.00	0.00	0.00
	4H	1.02	1.55	1.72	2.24	3.05	0.00	0.00	0.00	0.00	0.00
	6H	0.97	1.42	1.69	2.14	2.96	0.00	0.00	0.00	0.00	0.00
	8H	0.92	1.35	1.65	2.05	2.88	0.00	0.00	0.00	0.00	0.00
	12H	0.87	1.24	1.60	1.97	2.80	0.00	0.00	0.00	0.00	0.00
8H	4H	0.93	1.35	1.65	2.06	2.88	0.00	0.00	0.00	0.00	0.00
	6H	0.95	1.30	1.71	2.05	2.88	0.00	0.00	0.00	0.00	0.00
	8H	0.96	1.26	1.72	2.02	2.86	0.00	0.00	0.00	0.00	0.00
	12H	0.94	1.21	1.70	1.95	2.86	0.00	0.00	0.00	0.00	0.00
12H	4H	0.88	1.26	1.62	1.99	2.82	0.00	0.00	0.00	0.00	0.00
	6H	0.94	1.24	1.71	2.00	2.85	0.00	0.00	0.00	0.00	0.00
	8H	0.98	1.25	1.74	1.99	2.90	0.00	0.00	0.00	0.00	0.00