

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: P621946

Luminaire Tested: VLT-BB-M-075U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621946
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-075U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

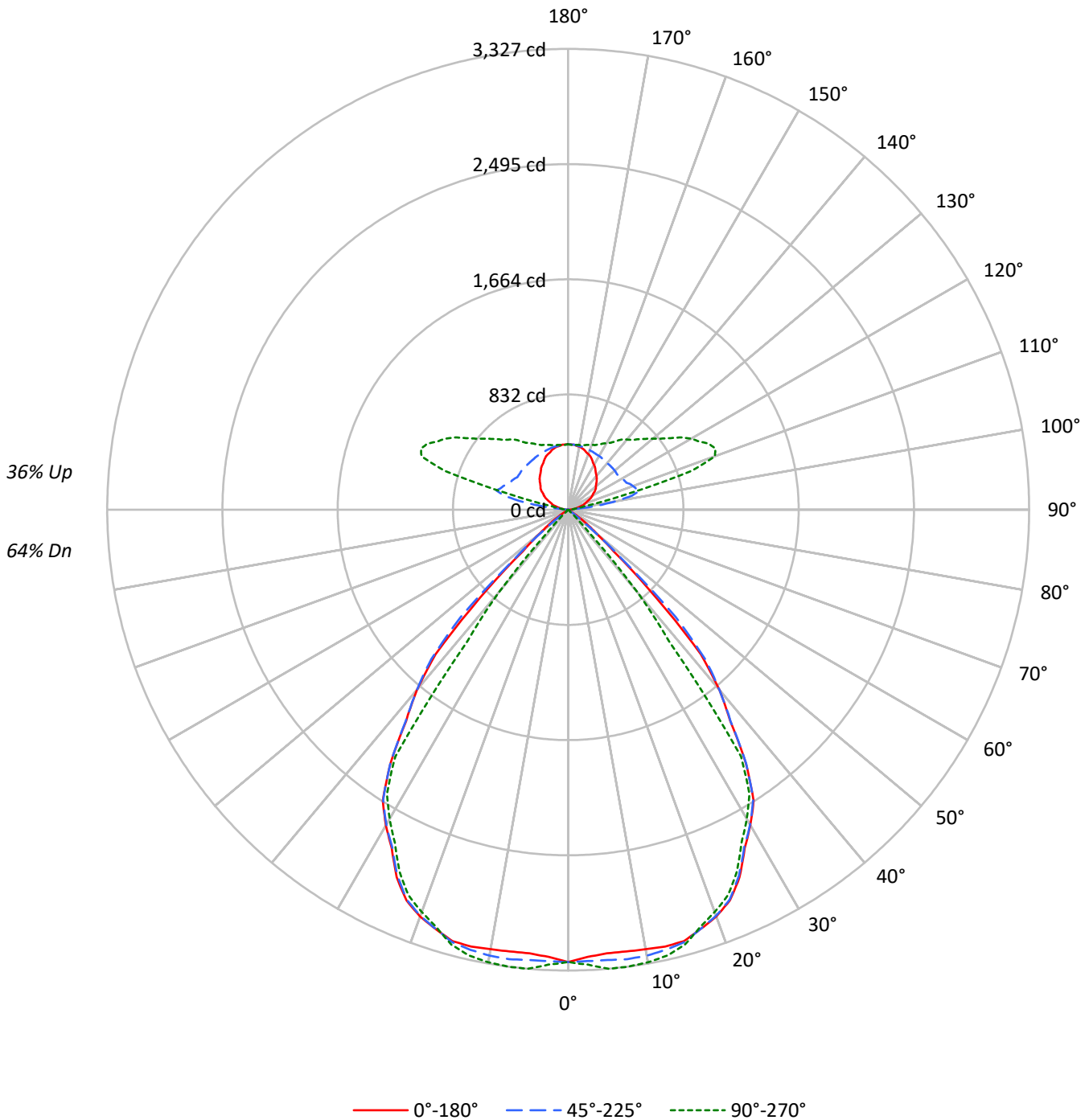
Lumens per Lamp: N/A
Luminaire Lumens: 7030.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): 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									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	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64																			
1	103	100	97	94	97	94	92	90	84	82	80	74	73	72	65	64	63	59																			
2	97	91	86	82	91	86	82	78	77	74	71	69	66	64	61	59	58	54																			
3	90	83	77	72	85	78	73	69	71	67	64	63	61	58	57	55	53	50																			
4	84	75	69	64	79	72	66	62	65	61	57	59	55	53	53	50	48	45																			
5	79	69	62	57	74	66	60	55	60	55	52	54	51	48	49	47	44	42																			
6	74	63	56	52	70	61	54	50	55	50	47	51	47	44	46	43	41	38																			
7	69	58	51	47	65	56	50	45	51	46	43	47	43	40	43	40	37	35																			
8	65	54	47	42	61	52	46	41	48	43	39	44	40	37	40	37	35	33																			
9	61	50	43	39	58	48	42	38	44	39	36	41	37	34	38	34	32	30																			
10	57	46	40	36	54	45	39	35	41	36	33	38	34	31	35	32	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23437	23437	23437
5°	23158	23509	23965
10°	23479	23816	24171
15°	23956	24011	24155
20°	23862	23825	23602
25°	23179	23083	22813
30°	21796	21755	21352
35°	19586	19608	19053
40°	15902	15902	7278
45°	9145	11123	148
50°	2882	2665	136
55°	1006	213	121
60°	70	139	139
65°	41	124	124
70°	50	153	153
75°	0	136	136
80°	0	202	202
85°	0	198	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	4.4
10°-20°	910.7	13.0
20°-30°	1330.4	18.9
30°-40°	1317.6	18.7
40°-50°	551.6	7.8
50°-60°	59.0	0.8
60°-70°	8.3	0.1
70°-80°	5.0	0.1
80°-90°	3.4	0.0
90°-100°	57.9	0.8
100°-110°	413.0	5.9
110°-120°	560.7	8.0
120°-130°	456.3	6.5
130°-140°	367.0	5.2
140°-150°	289.3	4.1
150°-160°	211.6	3.0
160°-170°	131.4	1.9
170°-180°	44.8	0.6
0°-30°	2553.2	36.3
0°-40°	3870.7	55.1
0°-60°	4481.3	63.7
0°-90°	4498.1	64.0
90°-120°	1031.6	14.7
90°-150°	2144.3	30.5
90°-180°	2532.0	36.0
0°-180°	7030.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3266	3266	3266	3266	3266	
5°	3215	3272	3264	3272	3327	307
15°	3225	3291	3232	3209	3251	906
25°	2928	2978	2915	2846	2881	1337
35°	2236	2241	2238	2194	2175	1371
45°	901	1070	1096	22	15	707
55°	80	107	17	12	10	90
65°	2	10	7	7	7	3
75°	0	5	5	5	5	0
85°	0	2	2	2	2	0
90°	0	3	6	9	9	1
95°	24	44	24	27	33	27
105°	92	141	537	686	454	97
115°	163	198	462	961	1124	162
125°	234	266	436	762	901	208
135°	290	322	439	628	720	224
145°	344	373	442	547	605	216
155°	403	418	451	496	519	185
165°	448	454	462	474	483	126
175°	471	474	471	468	465	45
180°	471	471	471	471	471	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3266.1	3266.1	3266.1	3266.1	3266.1
2.5°	3231.0	3276.7	3262.2	3258.9	3287.5
5°	3214.9	3272.1	3263.6	3272.2	3326.9
7.5°	3216.4	3269.2	3272.4	3272.2	3326.9
10°	3222.2	3277.0	3268.5	3262.4	3317.2
12.5°	3230.0	3286.7	3254.8	3244.8	3297.7
15°	3224.6	3291.3	3232.0	3208.6	3251.4
17.5°	3175.4	3252.6	3174.5	3129.4	3160.8
20°	3124.8	3205.8	3119.9	3057.4	3090.7
22.5°	3052.7	3128.0	3045.9	2973.7	3012.8
25°	2927.5	2977.5	2915.3	2845.5	2881.2
27.5°	2757.0	2785.6	2750.2	2687.4	2709.3
30°	2630.4	2649.4	2625.5	2562.5	2576.8
32.5°	2490.1	2499.6	2485.2	2427.9	2434.6
35°	2235.8	2240.6	2238.3	2194.0	2174.9
37.5°	1921.6	1931.2	1925.5	1733.1	1195.8
40°	1697.6	1707.1	1697.6	1015.1	776.9
42.5°	1417.0	1478.0	1461.8	692.2	221.6
45°	901.1	1070.2	1096.0	21.8	14.6
47.5°	445.2	627.6	515.4	14.1	14.1
50°	258.2	370.1	238.7	12.2	12.2
52.5°	172.4	225.3	69.2	12.2	12.2
55°	80.4	106.6	17.0	12.1	9.7
57.5°	28.3	53.5	11.7	9.7	9.7
60°	4.9	26.3	9.7	9.7	9.7
62.5°	2.9	14.8	9.7	7.8	9.7
65°	2.4	9.6	7.3	7.3	7.3
67.5°	2.4	7.2	7.3	7.3	7.3
70°	2.4	7.2	7.3	7.3	7.3
72.5°	0.5	5.2	5.4	5.4	7.3
75°	0.0	4.8	4.9	4.9	4.9
77.5°	0.0	4.8	4.9	4.9	4.9
80°	0.0	4.8	4.9	4.9	4.9
82.5°	0.0	2.9	2.9	3.0	4.9
85°	0.0	2.4	2.4	2.4	2.4
87.5°	0.0	2.5	3.1	3.7	3.7
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.0	18.4	20.8
95°	23.7	44.0	23.7	26.8	32.6
97.5°	42.1	84.4	174.3	51.4	44.5
100°	56.3	105.6	349.8	103.0	68.2
102.5°	70.6	122.2	473.2	271.7	148.8
105°	91.9	141.2	536.6	685.5	453.6
107.5°	113.2	150.4	512.3	997.6	934.5
110°	127.5	162.3	498.1	1048.3	1126.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	176.5	483.8	1018.7	1150.3
115°	163.1	197.8	462.5	961.3	1123.6
117.5°	185.0	219.2	457.1	899.1	1066.1
120°	201.6	233.5	447.7	851.8	1025.8
122.5°	213.5	247.7	435.8	811.2	971.2
125°	234.2	266.1	435.8	762.1	901.2
127.5°	251.4	283.9	436.4	705.1	842.5
130°	260.9	295.7	438.8	667.0	797.5
132.5°	272.7	307.5	438.8	649.9	757.2
135°	290.5	322.4	438.8	627.6	720.4
137.5°	305.4	339.6	438.8	603.0	682.5
140°	317.2	349.1	438.8	588.6	661.1
142.5°	329.1	358.6	441.1	571.9	639.8
145°	343.9	372.9	441.7	546.8	604.8
147.5°	361.7	387.2	445.3	528.7	573.4
150°	373.5	396.7	447.7	516.7	554.4
152.5°	385.4	406.3	447.7	507.1	537.8
155°	403.2	417.7	450.6	495.6	518.8
157.5°	417.4	431.3	454.2	488.4	505.2
160°	426.9	438.5	456.6	483.6	498.1
162.5°	434.0	445.6	458.9	481.1	490.9
165°	447.7	453.5	462.5	474.5	483.2
167.5°	455.4	460.6	465.4	471.5	476.7
170°	462.5	465.4	465.4	471.4	474.3
172.5°	464.9	470.1	467.8	469.1	472.0
175°	471.4	474.3	471.4	468.3	465.4
177.5°	471.4	473.7	471.4	471.3	469.0
180°	471.4	471.4	471.4	471.4	471.4



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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	0.00	0.37	0.50	1.23	2.30	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.15	0.37	1.02	2.12	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.02	0.29	0.89	2.01	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.20	0.75	1.87	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.15	0.67	1.79	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.09	0.58	1.72	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.26	0.85	1.96	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.18	0.69	1.81	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.12	0.57	1.72	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.08	0.47	1.62	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.04	0.39	1.55	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.31	1.48	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.04	0.39	1.56	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.09	0.40	1.56	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.11	0.36	1.54	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.09	0.30	1.53	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.01	0.33	1.49	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.09	0.35	1.53	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.13	0.34	1.57	0.00	0.00	0.00	0.00	0.00