

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: P621982

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621982
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-125U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

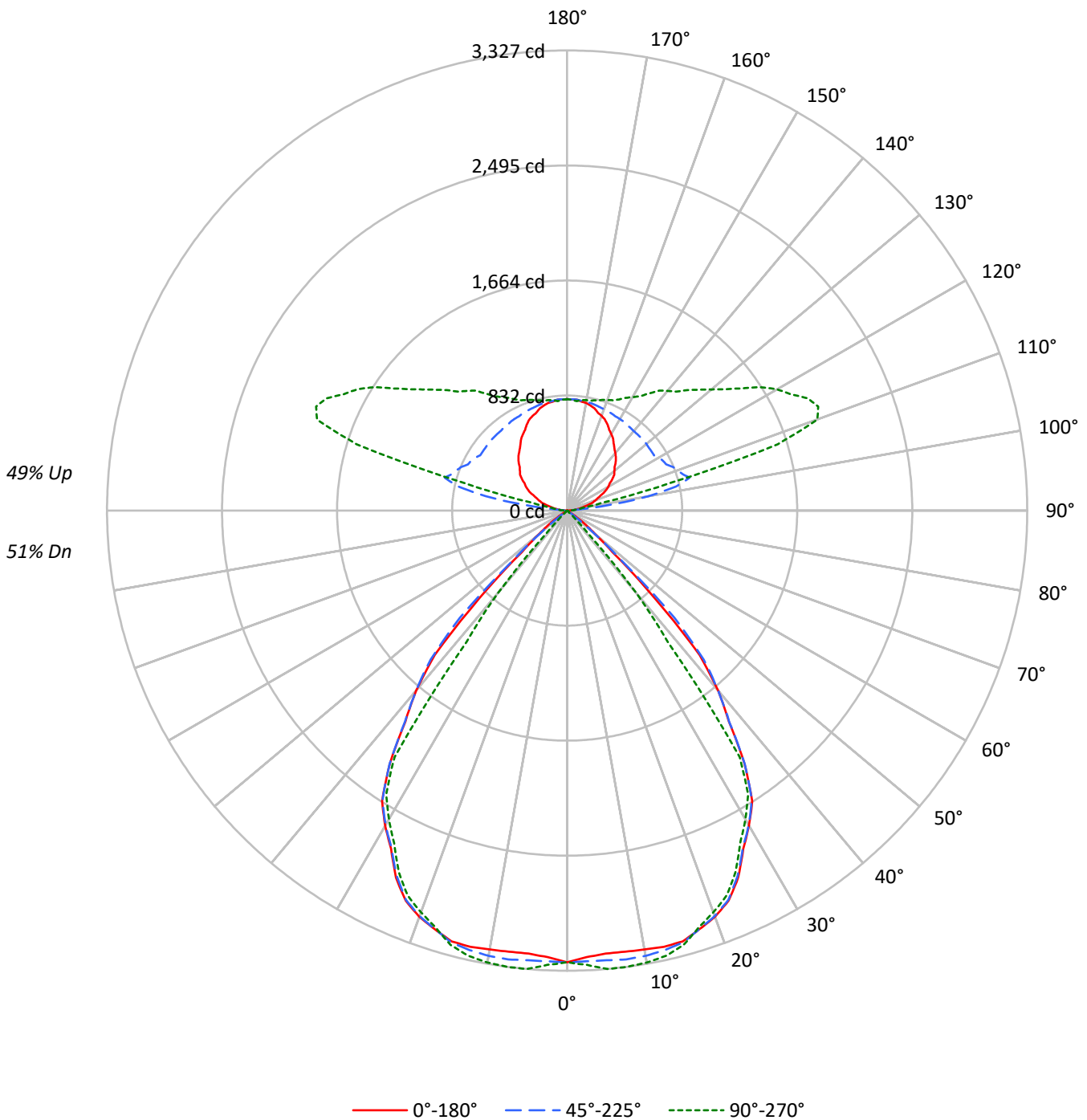
Lumens per Lamp: N/A
Luminaire Lumens: 8824.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.2
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	100	97	93	91	93	90	87	85	77	75	73	65	63	62	54	53	52	47				
2	93	87	82	78	86	81	77	73	70	67	64	60	58	56	50	49	48	43				
3	86	79	73	68	80	74	68	64	64	60	57	55	52	50	47	45	43	40				
4	80	71	65	60	75	67	61	57	58	54	51	51	48	45	43	41	40	36				
5	75	65	58	53	70	61	55	50	54	49	46	47	43	41	40	38	36	33				
6	70	59	52	47	65	56	50	45	49	45	41	43	40	37	38	35	33	31				
7	65	54	47	43	61	51	45	41	46	41	37	40	37	34	35	32	30	28				
8	61	50	43	39	57	47	41	37	42	37	34	37	34	31	33	30	28	26				
9	57	46	40	35	53	44	38	34	39	34	31	35	31	29	31	28	26	24				
10	54	43	36	32	50	41	35	31	36	32	29	33	29	26	29	26	24	22				

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	3.5
10°-20°	910.7	10.3
20°-30°	1330.4	15.1
30°-40°	1317.6	14.9
40°-50°	551.6	6.3
50°-60°	59.0	0.7
60°-70°	8.3	0.1
70°-80°	5.0	0.1
80°-90°	4.2	0.0
90°-100°	99.0	1.1
100°-110°	705.5	8.0
110°-120°	957.8	10.9
120°-130°	779.6	8.8
130°-140°	627.0	7.1
140°-150°	494.3	5.6
150°-160°	361.4	4.1
160°-170°	224.5	2.5
170°-180°	76.6	0.9
0°-30°	2553.2	28.9
0°-40°	3870.7	43.9
0°-60°	4481.3	50.8
0°-90°	4498.8	51.0
90°-120°	1762.4	20.0
90°-150°	3663.3	41.5
90°-180°	4326.0	49.0
0°-180°	8824.7	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	5	10	15	15	2
95°	40	75	40	46	56	45
105°	157	241	917	1171	775	166
115°	279	338	790	1642	1920	277
125°	400	455	744	1302	1540	356
135°	496	551	750	1072	1231	382
145°	588	637	755	934	1033	369
155°	689	714	770	847	886	316
165°	765	775	790	811	826	215
175°	805	810	805	800	795	76
180°	805	805	805	805	805	



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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	2.9	4.0	5.0	5.0
90°	0.0	5.0	10.1	15.2	15.2
92.5°	12.2	17.1	22.3	31.5	35.5
95°	40.5	75.2	40.5	45.8	55.7
97.5°	71.9	144.2	297.8	87.9	76.0
100°	96.2	180.4	597.6	175.9	116.5
102.5°	120.5	208.7	808.3	464.2	254.2
105°	157.0	241.2	916.7	1171.1	774.9
107.5°	193.5	256.9	875.2	1704.4	1596.4
110°	217.8	277.2	850.9	1790.9	1924.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	242.1	301.5	826.6	1740.3	1965.1
115°	278.6	338.0	790.1	1642.2	1919.5
117.5°	316.0	374.5	781.0	1536.0	1821.3
120°	344.4	398.9	764.8	1455.3	1752.4
122.5°	364.7	423.1	744.5	1385.8	1659.2
125°	400.1	454.6	744.5	1302.0	1539.7
127.5°	429.5	485.0	745.5	1204.7	1439.4
130°	445.7	505.1	749.6	1139.6	1362.4
132.5°	466.0	525.4	749.6	1110.3	1293.5
135°	496.3	550.8	749.6	1072.3	1230.7
137.5°	521.7	580.1	749.6	1030.2	1165.9
140°	541.9	596.4	749.6	1005.6	1129.4
142.5°	562.2	612.7	753.6	977.1	1093.0
145°	587.5	637.0	754.6	934.2	1033.2
147.5°	617.9	661.5	760.7	903.3	979.5
150°	638.2	677.8	764.8	882.7	947.1
152.5°	658.4	694.1	764.8	866.2	918.7
155°	688.8	713.6	769.8	846.7	886.3
157.5°	713.1	736.9	775.9	834.3	863.0
160°	729.3	749.1	780.0	826.1	850.9
162.5°	741.5	761.3	784.0	821.9	838.7
165°	764.8	774.7	790.1	810.7	825.6
167.5°	777.9	786.9	795.2	805.5	814.4
170°	790.1	795.1	795.2	805.4	810.4
172.5°	794.2	803.1	799.2	801.4	806.3
175°	805.3	810.2	805.3	800.1	795.2
177.5°	805.3	809.3	805.3	805.2	801.2
180°	805.3	805.3	805.3	805.3	805.3



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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	0.00	0.00	0.00	0.09	1.36	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00