

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: P621935

Luminaire Tested: VLT-BB-M-050U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621935
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-050U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

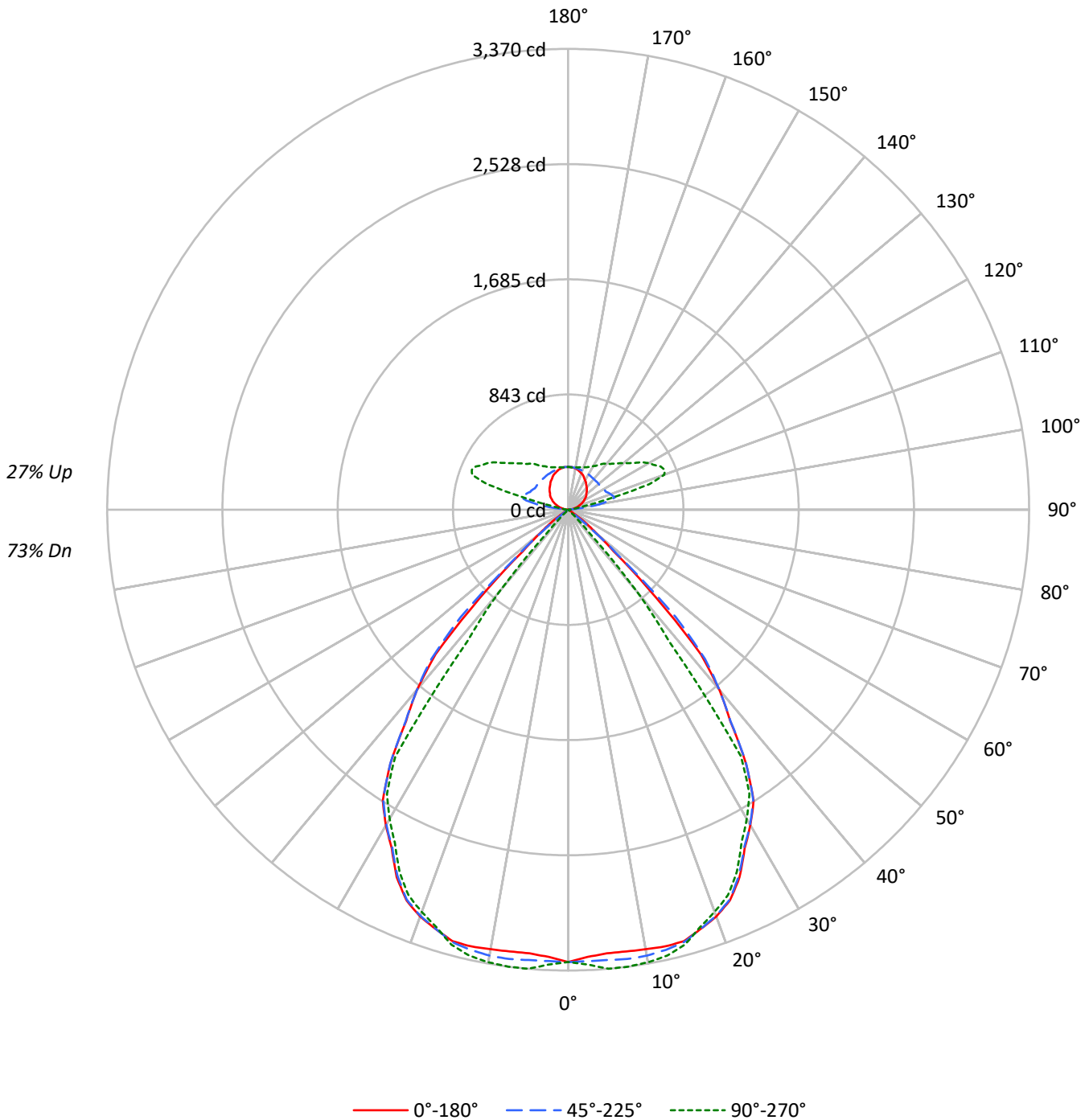
Lumens per Lamp: N/A
Luminaire Lumens: 6236.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 65.6
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	0	
RCR																						
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73				
1	106	103	100	97	101	98	95	93	89	87	85	81	79	78	73	72	71	68				
2	99	94	89	85	94	89	85	82	82	79	76	75	72	70	68	67	65	62				
3	93	85	80	75	88	82	77	73	75	71	68	69	66	64	64	61	60	57				
4	87	78	72	67	83	75	70	65	70	65	61	64	61	58	59	57	54	52				
5	81	72	65	60	78	69	63	59	64	59	56	60	56	53	55	52	50	48				
6	76	66	59	54	73	64	58	53	60	54	51	56	51	48	52	48	46	44				
7	72	61	54	49	68	59	53	48	55	50	46	52	47	44	48	45	42	40				
8	67	57	50	45	64	55	49	44	51	46	43	48	44	41	45	42	39	37				
9	63	52	46	41	61	51	45	41	48	43	39	45	41	38	42	39	36	34				
10	60	49	42	38	57	47	42	38	45	40	36	42	38	35	40	36	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23739	23739	23739
5°	23456	23812	24274
10°	23781	24123	24483
15°	24265	24320	24466
20°	24170	24132	23906
25°	23478	23380	23107
30°	22077	22035	21627
35°	19838	19860	19299
40°	16107	16107	7371
45°	9263	11266	150
50°	2919	2699	137
55°	1018	216	124
60°	70	142	142
65°	42	126	126
70°	52	155	155
75°	0	136	136
80°	0	202	202
85°	0	206	206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	5.1
10°-20°	922.4	14.8
20°-30°	1347.5	21.6
30°-40°	1334.6	21.4
40°-50°	558.7	9.0
50°-60°	59.8	1.0
60°-70°	8.4	0.1
70°-80°	5.0	0.1
80°-90°	3.1	0.1
90°-100°	38.5	0.6
100°-110°	274.1	4.4
110°-120°	372.2	6.0
120°-130°	302.9	4.9
130°-140°	243.6	3.9
140°-150°	192.1	3.1
150°-160°	140.4	2.3
160°-170°	87.2	1.4
170°-180°	29.7	0.5
0°-30°	2586.1	41.5
0°-40°	3920.6	62.9
0°-60°	4539.1	72.8
0°-90°	4555.7	73.0
90°-120°	684.8	11.0
90°-150°	1423.4	22.8
90°-180°	1681.0	27.0
0°-180°	6236.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3256	3314	3306	3314	3370	311
15°	3266	3334	3274	3250	3293	918
25°	2965	3016	2953	2882	2918	1354
35°	2265	2270	2267	2222	2203	1389
45°	913	1084	1110	22	15	716
55°	81	108	17	12	10	91
65°	2	10	7	7	7	3
75°	0	5	5	5	5	0
85°	0	2	2	2	2	0
90°	0	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	94	356	455	301	64
115°	108	131	307	638	746	107
125°	156	177	289	506	598	138
135°	193	214	291	417	478	148
145°	228	248	293	363	402	143
155°	268	277	299	329	344	123
165°	297	301	307	315	321	83
175°	313	315	313	311	309	30
180°	313	313	313	313	313	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3308.1	3308.1	3308.1	3308.1	3308.1
2.5°	3272.6	3318.9	3304.2	3300.9	3329.9
5°	3256.3	3314.2	3305.7	3314.3	3369.8
7.5°	3257.8	3311.4	3314.6	3314.3	3369.8
10°	3263.7	3319.2	3310.6	3304.5	3360.0
12.5°	3271.6	3329.0	3296.8	3286.7	3340.2
15°	3266.2	3333.7	3273.6	3249.9	3293.3
17.5°	3216.4	3294.5	3215.4	3169.7	3201.6
20°	3165.1	3247.1	3160.1	3096.8	3130.5
22.5°	3092.0	3168.3	3085.1	3012.0	3051.6
25°	2965.2	3015.9	2952.9	2882.2	2918.4
27.5°	2792.6	2821.5	2785.7	2722.0	2744.2
30°	2664.3	2683.6	2659.3	2595.5	2610.0
32.5°	2522.2	2531.8	2517.3	2459.2	2465.9
35°	2264.6	2269.5	2267.1	2222.3	2203.0
37.5°	1946.4	1956.1	1950.4	1755.4	1211.3
40°	1719.4	1729.1	1719.4	1028.2	786.9
42.5°	1435.3	1497.0	1480.6	701.1	224.5
45°	912.8	1084.0	1110.1	22.0	14.8
47.5°	451.0	635.7	522.0	14.3	14.3
50°	261.5	374.9	241.8	12.3	12.3
52.5°	174.7	228.2	70.1	12.3	12.3
55°	81.4	107.9	17.3	12.3	9.9
57.5°	28.6	54.2	11.8	9.9	9.9
60°	4.9	26.6	9.9	9.9	9.9
62.5°	3.0	15.0	9.9	7.9	9.9
65°	2.5	9.7	7.4	7.4	7.4
67.5°	2.5	7.3	7.4	7.4	7.4
70°	2.5	7.3	7.4	7.4	7.4
72.5°	0.5	5.3	5.4	5.5	7.4
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	3.0	3.0	4.9
85°	0.0	2.4	2.5	2.5	2.5
87.5°	0.0	2.3	2.8	3.2	3.2
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.7	12.2	13.8
95°	15.7	29.2	15.7	17.8	21.6
97.5°	27.9	56.0	115.7	34.1	29.5
100°	37.4	70.1	232.2	68.4	45.3
102.5°	46.8	81.1	314.1	180.4	98.8
105°	61.0	93.7	356.2	455.0	301.1
107.5°	75.2	99.8	340.1	662.3	620.3
110°	84.6	107.7	330.6	695.9	747.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.1	117.2	321.2	676.2	763.6
115°	108.2	131.3	307.0	638.1	745.9
117.5°	122.8	145.5	303.5	596.9	707.7
120°	133.8	155.0	297.2	565.5	680.9
122.5°	141.7	164.4	289.3	538.5	644.7
125°	155.5	176.6	289.3	505.9	598.3
127.5°	166.9	188.4	289.7	468.1	559.3
130°	173.2	196.3	291.3	442.8	529.4
132.5°	181.1	204.1	291.3	431.4	502.6
135°	192.9	214.0	291.3	416.6	478.2
137.5°	202.7	225.4	291.3	400.3	453.0
140°	210.6	231.7	291.3	390.8	438.9
142.5°	218.4	238.1	292.8	379.7	424.7
145°	228.3	247.5	293.2	363.0	401.5
147.5°	240.1	257.0	295.6	351.0	380.6
150°	248.0	263.4	297.2	343.0	368.0
152.5°	255.8	269.7	297.2	336.6	357.0
155°	267.6	277.3	299.1	329.0	344.4
157.5°	277.1	286.3	301.5	324.2	335.3
160°	283.4	291.1	303.1	321.0	330.6
162.5°	288.1	295.8	304.6	319.4	325.9
165°	297.2	301.0	307.0	315.0	320.8
167.5°	302.3	305.7	309.0	313.0	316.5
170°	307.0	308.9	309.0	313.0	314.9
172.5°	308.6	312.0	310.5	311.4	313.3
175°	312.9	314.8	312.9	310.9	309.0
177.5°	312.9	314.4	312.9	312.9	311.3
180°	312.9	312.9	312.9	312.9	312.9



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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	0.44	1.24	1.21	2.00	2.92	0.00	0.00	0.00	0.00	0.00
	3H	0.30	1.02	1.09	1.79	2.74	0.00	0.00	0.00	0.00	0.00
	4H	0.21	0.88	1.02	1.66	2.62	0.00	0.00	0.00	0.00	0.00
	6H	0.11	0.72	0.93	1.51	2.48	0.00	0.00	0.00	0.00	0.00
	8H	0.06	0.63	0.88	1.43	2.41	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.54	0.82	1.34	2.33	0.00	0.00	0.00	0.00	0.00
4H	2H	0.17	0.83	0.98	1.61	2.58	0.00	0.00	0.00	0.00	0.00
	3H	0.09	0.64	0.91	1.45	2.43	0.00	0.00	0.00	0.00	0.00
	4H	0.02	0.51	0.85	1.33	2.33	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.38	0.81	1.22	2.24	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.31	0.77	1.14	2.16	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.20	0.72	1.06	2.08	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.31	0.77	1.15	2.17	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.26	0.82	1.14	2.16	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.23	0.84	1.11	2.14	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.18	0.82	1.04	2.14	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.22	0.74	1.08	2.10	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.22	0.82	1.09	2.13	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.22	0.85	1.08	2.18	0.00	0.00	0.00	0.00	0.00