

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: P622019

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622019  
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-050U-125D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE 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**

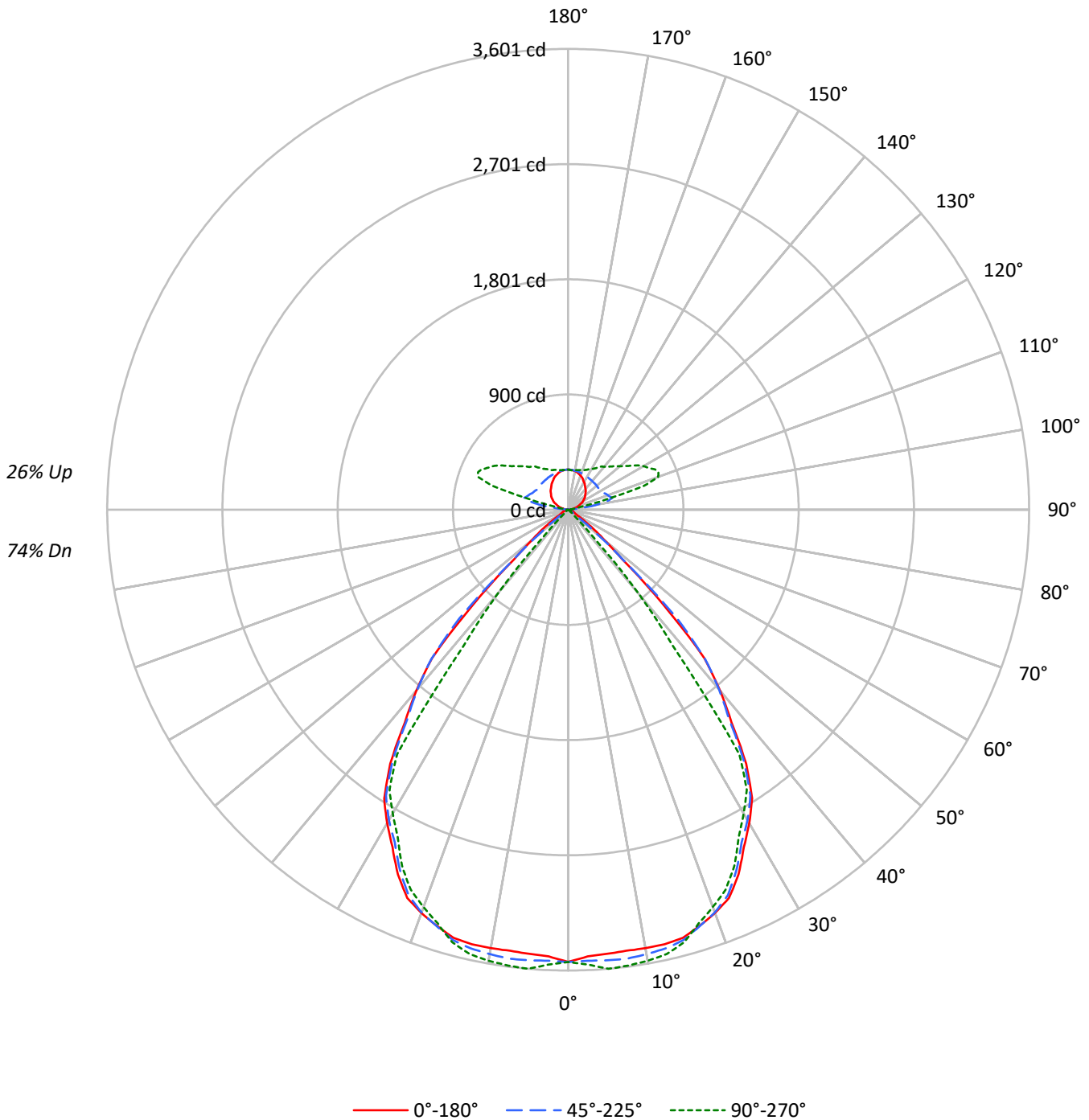
Lumens per Lamp: N/A  
Luminaire Lumens: 6583.3 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 65.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	113	113	113	113	107	107	107	107	97	97	97		87	87	87		79	79	79	74
1	106	103	100	97	101	98	96	93	90	88	86		82	80	79		74	73	72	69
2	99	94	89	85	95	90	86	82	82	79	77		76	73	71		69	68	66	63
3	93	86	80	75	89	82	77	73	76	72	69		70	67	64		65	62	60	57
4	87	78	72	67	83	75	70	65	70	65	62		65	61	58		60	57	55	53
5	82	72	65	60	78	69	63	59	65	60	56		60	56	53		56	53	50	48
6	76	66	59	54	73	64	58	53	60	55	51		56	52	49		52	49	46	44
7	72	61	54	50	69	59	53	48	56	50	47		52	48	45		49	45	43	41
8	67	57	50	45	65	55	49	44	52	46	43		49	44	41		46	42	39	37
9	63	53	46	41	61	51	45	41	48	43	39		45	41	38		43	39	36	35
10	60	49	42	38	57	48	42	38	45	40	36		43	38	35		40	36	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25358	25358	25358
5°	25094	25454	25941
10°	25347	25694	26077
15°	25731	25861	25991
20°	25610	25572	25228
25°	24909	24612	24315
30°	23436	23208	22711
35°	21229	20922	20418
40°	17265	17148	8106
45°	10684	12182	558
50°	4076	3267	335
55°	2003	594	125
60°	969	287	36
65°	891	42	42
70°	839	52	52
75°	832	69	69
80°	826	103	0
85°	823	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12182 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.5	5.1
10°-20°	979.0	14.9
20°-30°	1423.4	21.6
30°-40°	1416.5	21.5
40°-50°	622.9	9.5
50°-60°	91.9	1.4
60°-70°	21.0	0.3
70°-80°	7.8	0.1
80°-90°	2.5	0.0
90°-100°	38.5	0.6
100°-110°	274.1	4.2
110°-120°	372.2	5.7
120°-130°	302.9	4.6
130°-140°	243.6	3.7
140°-150°	192.1	2.9
150°-160°	140.4	2.1
160°-170°	87.2	1.3
170°-180°	29.7	0.5
0°-30°	2739.8	41.6
0°-40°	4156.3	63.1
0°-60°	4871.1	74.0
0°-90°	4902.4	74.5
90°-120°	684.8	10.4
90°-150°	1423.4	21.6
90°-180°	1681.0	25.5
0°-180°	6583.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3534	3534	3534	3534	3534	
5°	3484	3545	3534	3542	3601	332
15°	3464	3537	3481	3447	3499	974
25°	3146	3205	3108	3027	3071	1438
35°	2423	2416	2388	2338	2331	1484
45°	1053	1197	1200	80	55	815
55°	160	172	48	17	10	162
65°	52	45	2	2	2	52
75°	30	6	2	2	2	32
85°	10	0	0	0	0	10
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°	3533.7	3533.7	3533.7	3533.7	3533.7
2.5°	3493.6	3546.5	3527.7	3526.4	3557.7
5°	3483.6	3544.8	3533.7	3542.5	3601.2
7.5°	3476.6	3538.3	3538.2	3534.0	3592.7
10°	3478.6	3542.2	3526.2	3520.0	3578.7
12.5°	3478.6	3546.1	3512.1	3496.0	3556.7
15°	3463.6	3537.0	3481.1	3447.3	3498.6
17.5°	3409.6	3489.3	3412.6	3346.6	3389.6
20°	3353.6	3439.2	3348.6	3264.5	3303.6
22.5°	3283.6	3359.4	3260.6	3172.5	3213.5
25°	3146.0	3204.7	3108.5	3027.0	3071.0
27.5°	2972.5	3004.7	2933.0	2854.6	2882.9
30°	2828.4	2852.9	2800.9	2726.2	2740.9
32.5°	2674.4	2691.0	2648.9	2584.1	2596.8
35°	2423.3	2416.0	2388.3	2338.1	2330.8
37.5°	2095.2	2082.5	2064.7	1870.6	1341.4
40°	1843.1	1848.0	1830.6	1144.0	865.3
42.5°	1577.0	1607.3	1582.5	779.0	283.1
45°	1052.8	1197.1	1200.4	79.5	55.0
47.5°	569.2	726.2	590.7	49.3	40.0
50°	365.1	455.6	292.6	37.3	30.0
52.5°	261.1	304.6	114.5	29.3	22.0
55°	160.1	172.3	47.5	17.3	10.0
57.5°	95.5	113.6	30.0	6.4	2.5
60°	67.5	79.7	20.0	2.5	2.5
62.5°	59.5	60.0	14.0	2.5	2.5
65°	52.5	45.2	2.5	2.5	2.5
67.5°	46.0	32.8	2.5	2.5	2.5
70°	40.0	22.9	2.5	2.5	2.5
72.5°	36.0	15.0	2.5	2.5	2.5
75°	30.0	5.6	2.5	2.5	2.5
77.5°	24.0	3.0	2.5	2.0	2.0
80°	20.0	2.9	2.5	0.0	0.0
82.5°	16.0	2.8	0.5	0.0	0.0
85°	10.0	0.2	0.0	0.0	0.0
87.5°	4.0	0.5	0.8	1.2	1.2
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	5.37	6.19	6.13	6.94	7.83	0.00	0.00	0.00	0.00	0.00
	3H	5.81	6.54	6.58	7.30	8.22	0.00	0.00	0.00	0.00	0.00
	4H	5.98	6.66	6.77	7.42	8.36	0.00	0.00	0.00	0.00	0.00
	6H	6.16	6.79	6.96	7.56	8.51	0.00	0.00	0.00	0.00	0.00
	8H	6.25	6.84	7.06	7.63	8.57	0.00	0.00	0.00	0.00	0.00
	12H	6.32	6.88	7.13	7.66	8.63	0.00	0.00	0.00	0.00	0.00
4H	2H	5.08	5.76	5.87	6.52	7.46	0.00	0.00	0.00	0.00	0.00
	3H	5.56	6.11	6.36	6.91	7.86	0.00	0.00	0.00	0.00	0.00
	4H	5.73	6.23	6.54	7.03	8.01	0.00	0.00	0.00	0.00	0.00
	6H	5.97	6.39	6.80	7.22	8.21	0.00	0.00	0.00	0.00	0.00
	8H	6.08	6.48	6.91	7.30	8.30	0.00	0.00	0.00	0.00	0.00
	12H	6.19	6.55	7.04	7.39	8.39	0.00	0.00	0.00	0.00	0.00
8H	4H	5.56	5.96	6.39	6.78	7.77	0.00	0.00	0.00	0.00	0.00
	6H	5.79	6.12	6.65	6.98	7.98	0.00	0.00	0.00	0.00	0.00
	8H	5.93	6.21	6.80	7.07	8.09	0.00	0.00	0.00	0.00	0.00
	12H	6.06	6.31	6.93	7.16	8.23	0.00	0.00	0.00	0.00	0.00
12H	4H	5.49	5.85	6.34	6.69	7.69	0.00	0.00	0.00	0.00	0.00
	6H	5.73	6.02	6.60	6.88	7.89	0.00	0.00	0.00	0.00	0.00
	8H	5.86	6.11	6.73	6.96	8.03	0.00	0.00	0.00	0.00	0.00