

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: P621868

Luminaire Tested: VLT-FB-125U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621868  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-125U-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

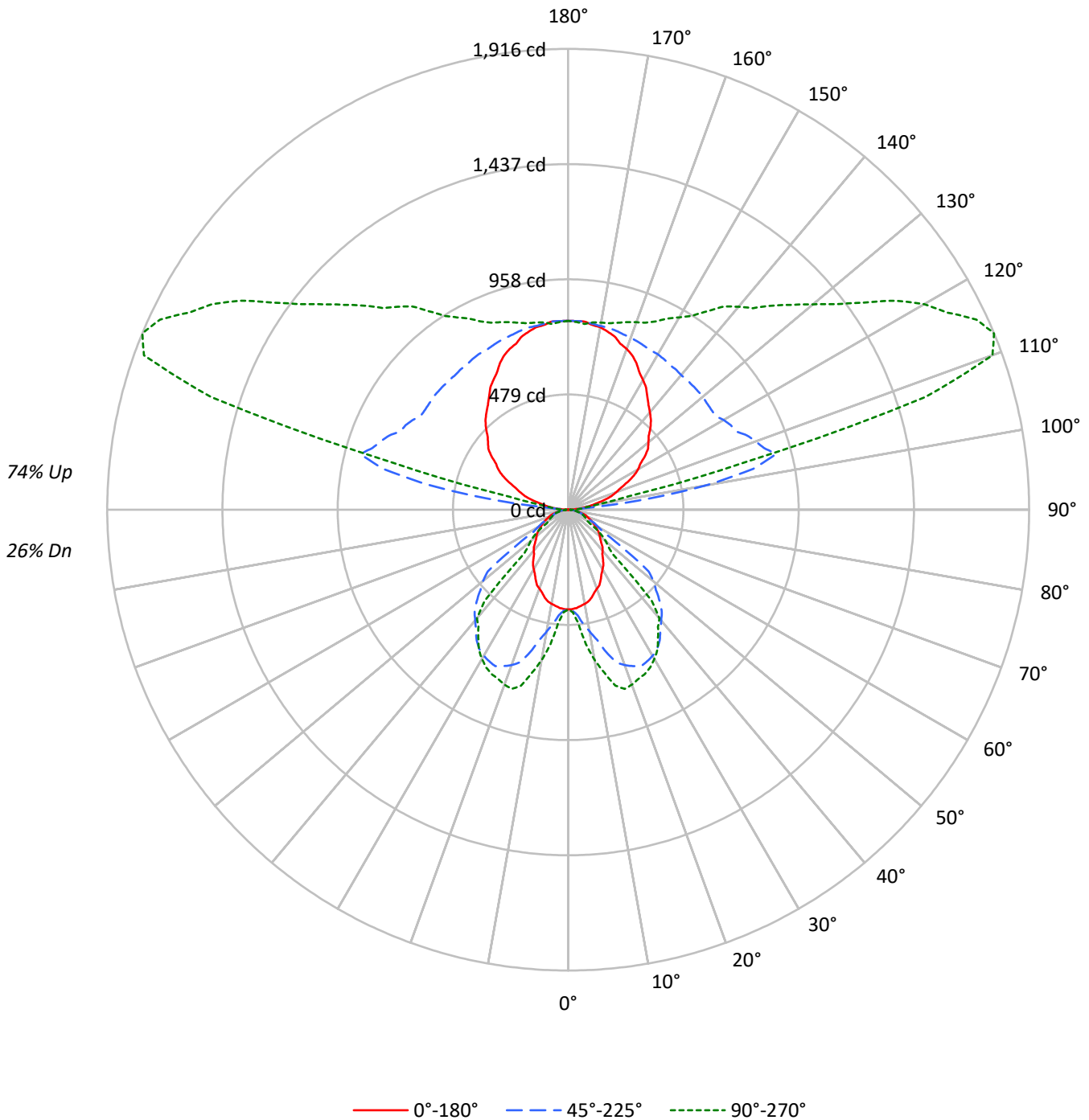
Lumens per Lamp: N/A  
Luminaire Lumens: 5705.5 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.6  
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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	93	89	85	82	83	79	76	74	62	60	58	46	44	43	31	30	29	23				
2	85	78	72	67	75	70	65	61	54	51	48	40	38	37	27	26	25	19				
3	77	69	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22	17				
4	71	61	53	48	63	55	48	43	43	38	35	32	29	27	22	20	19	15				
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13				
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	10	8				
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7				

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

	0°	45°	90°
0°	2977	2977	2977
5°	2952	3164	3389
10°	2894	3742	4620
15°	2806	4560	5625
20°	2672	5254	5911
25°	2531	5682	5968
30°	2368	5813	5939
35°	2208	5813	5702
40°	2078	5632	5521
45°	1977	5460	2644
50°	1920	5168	2279
55°	1867	3461	1804
60°	1816	2105	1307
65°	1776	1603	1360
70°	1752	1397	1397
75°	1708	1450	1403
80°	1500	1463	1393
85°	1112	1531	1317

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 5460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	0.8
10°-20°	165.0	2.9
20°-30°	279.4	4.9
30°-40°	338.9	5.9
40°-50°	298.3	5.2
50°-60°	184.6	3.2
60°-70°	100.1	1.8
70°-80°	57.0	1.0
80°-90°	20.4	0.4
90°-100°	96.5	1.7
100°-110°	687.8	12.1
110°-120°	933.8	16.4
120°-130°	760.0	13.3
130°-140°	611.2	10.7
140°-150°	481.9	8.4
150°-160°	352.4	6.2
160°-170°	218.9	3.8
170°-180°	74.6	1.3
0°-30°	489.1	8.6
0°-40°	828.0	14.5
0°-60°	1310.9	23.0
0°-90°	1488.4	26.1
90°-120°	1718.1	30.1
90°-150°	3571.3	62.6
90°-180°	4217.0	73.9
0°-180°	5705.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	410	423	439	458	470	39
15°	378	436	614	726	757	106
25°	320	438	718	739	754	147
35°	252	406	664	654	651	158
45°	195	333	538	456	260	151
55°	149	232	277	160	144	134
65°	105	131	94	81	80	104
75°	62	54	52	51	51	64
85°	14	18	19	17	16	16
90°	0	5	10	15	15	2
95°	40	73	40	45	54	44
105°	153	235	894	1142	755	161
115°	272	330	770	1601	1871	270
125°	390	443	726	1269	1501	347
135°	484	537	731	1045	1200	372
145°	573	621	736	911	1007	360
155°	672	696	750	825	864	308
165°	746	755	770	790	805	209
175°	785	790	785	780	775	74
180°	785	785	785	785	785	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	413.5	418.1	420.2	424.3	426.3
5°	409.8	423.0	439.3	458.1	470.5
7.5°	403.2	426.8	478.4	537.9	563.3
10°	397.1	429.3	513.5	599.5	634.1
12.5°	390.4	431.8	554.7	658.8	694.1
15°	377.7	435.5	613.8	725.9	757.2
17.5°	361.4	437.7	665.1	761.4	781.5
20°	349.9	438.1	688.0	765.8	774.0
22.5°	339.1	438.6	704.2	755.0	761.9
25°	319.6	437.5	717.6	739.0	753.8
27.5°	300.0	432.6	711.0	728.3	739.0
30°	285.8	427.6	701.5	715.9	716.7
32.5°	272.4	419.4	687.4	691.6	690.4
35°	252.1	405.5	663.6	654.2	650.9
37.5°	233.2	386.9	628.9	613.8	613.0
40°	221.8	373.5	601.2	586.9	589.4
42.5°	211.0	358.0	576.2	559.5	513.2
45°	194.8	333.3	538.0	455.9	260.5
47.5°	180.8	305.1	494.6	244.2	224.3
50°	172.0	285.8	462.9	214.8	204.1
52.5°	163.2	267.8	421.8	193.1	179.1
55°	149.2	232.5	276.6	159.9	144.2
57.5°	135.9	195.4	169.0	124.2	107.3
60°	126.5	173.5	146.7	100.1	91.1
62.5°	117.7	155.5	125.1	88.8	87.0
65°	104.6	130.9	94.4	80.9	80.1
67.5°	92.2	107.6	72.0	72.8	72.0
70°	83.5	90.9	66.6	67.4	66.6
72.5°	75.4	74.9	61.2	60.7	59.9
75°	61.6	54.1	52.3	51.4	50.6
77.5°	47.0	40.0	42.2	41.3	40.5
80°	36.3	33.8	35.4	34.6	33.7
82.5°	26.8	27.6	28.7	27.1	26.3
85°	13.5	18.4	18.6	16.8	16.0
87.5°	4.0	9.0	9.4	9.0	8.4
90°	0.0	4.8	9.9	14.8	14.8
92.5°	11.8	16.7	21.7	30.7	34.6
95°	39.5	73.3	39.5	44.7	54.3
97.5°	70.1	140.6	290.3	85.6	74.1
100°	93.8	175.9	582.6	171.5	113.6
102.5°	117.5	203.4	788.0	452.6	247.9
105°	153.1	235.1	893.7	1141.7	755.4
107.5°	188.6	250.4	853.2	1661.5	1556.3
110°	212.3	270.2	829.5	1745.9	1876.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	293.9	805.8	1696.6	1915.7
115°	271.6	329.5	770.2	1600.9	1871.3
117.5°	308.1	365.1	761.4	1497.4	1775.5
120°	335.7	388.9	745.6	1418.7	1708.4
122.5°	355.5	412.5	725.8	1351.0	1617.5
125°	390.1	443.2	725.8	1269.3	1501.0
127.5°	418.7	472.8	726.8	1174.4	1403.2
130°	434.5	492.4	730.7	1110.9	1328.2
132.5°	454.2	512.2	730.7	1082.4	1261.0
135°	483.9	537.0	730.7	1045.3	1199.8
137.5°	508.6	565.5	730.7	1004.3	1136.6
140°	528.3	581.4	730.7	980.4	1101.1
142.5°	548.1	597.3	734.7	952.5	1065.5
145°	572.7	621.0	735.7	910.7	1007.2
147.5°	602.4	644.9	741.6	880.6	954.9
150°	622.1	660.7	745.6	860.5	923.3
152.5°	641.9	676.6	745.6	844.5	895.7
155°	671.5	695.6	750.5	825.4	864.1
157.5°	695.2	718.4	756.4	813.3	841.3
160°	711.0	730.3	760.4	805.4	829.5
162.5°	722.8	742.2	764.3	801.2	817.6
165°	745.6	755.2	770.2	790.3	804.8
167.5°	758.4	767.1	775.2	785.3	793.9
170°	770.2	775.1	775.2	785.2	790.0
172.5°	774.2	782.9	779.1	781.2	786.0
175°	785.1	789.9	785.1	780.0	775.2
177.5°	785.1	788.9	785.1	785.0	781.1
180°	785.1	785.1	785.1	785.1	785.1

(END OF REPORT)