

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: P621844

Luminaire Tested: VLT-FB-100U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621844
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-100U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

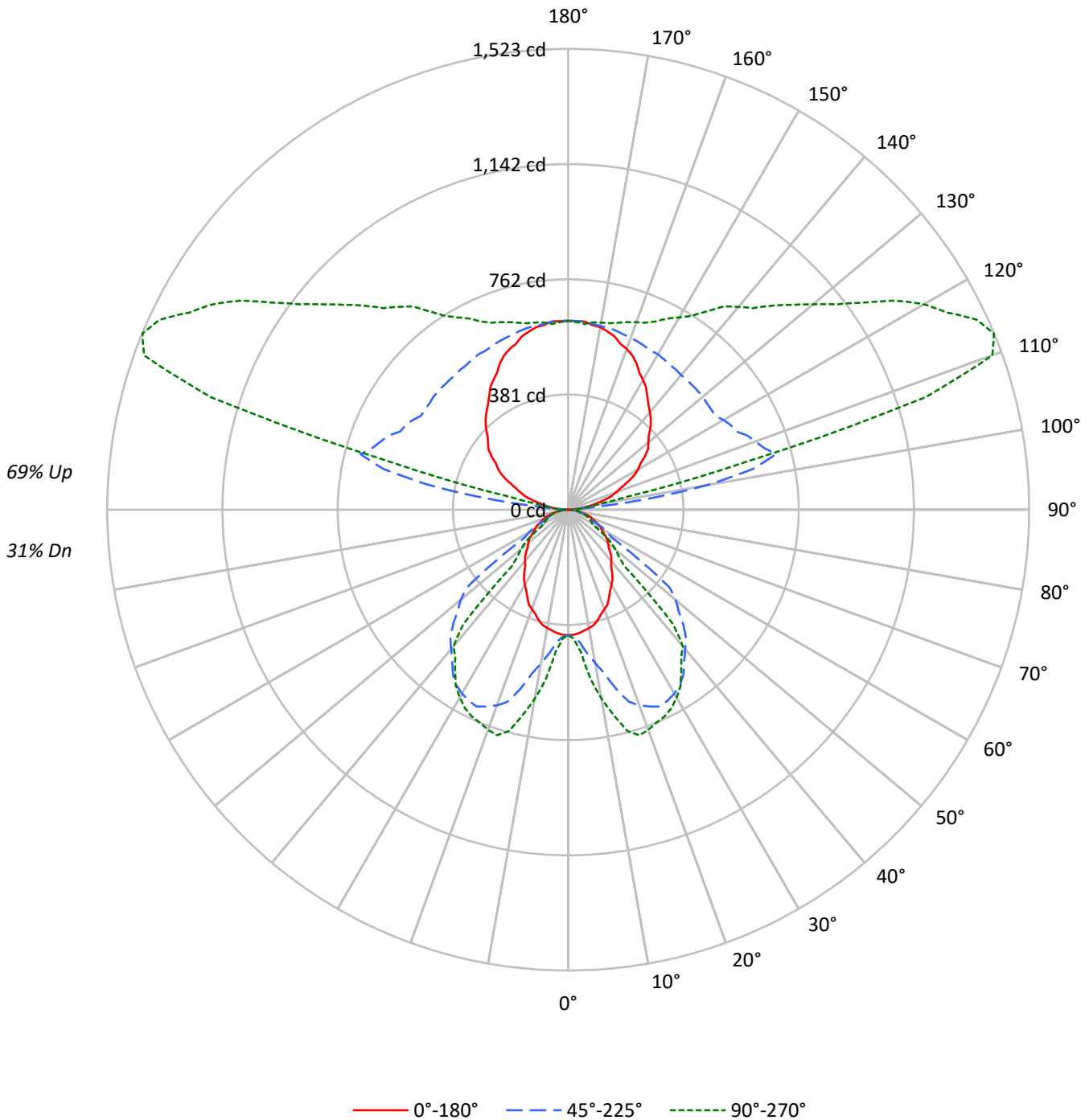
Lumens per Lamp: N/A
Luminaire Lumens: 4839.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 43.4
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					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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31				
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	27				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	28	23				
3	78	70	63	57	70	63	57	52	50	46	43	38	36	34	28	26	25	20				
4	72	62	54	49	64	56	49	44	45	40	37	34	31	29	25	23	21	17				
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	22	20	19	15				
6	61	49	41	36	54	45	38	33	36	31	28	28	25	22	20	18	17	13				
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	16	15	12				
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13	11				
9	48	36	29	25	43	33	27	23	27	22	19	21	18	15	16	14	12	10				
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9				

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	0.9
10°-20°	165.0	3.4
20°-30°	279.4	5.8
30°-40°	338.9	7.0
40°-50°	298.3	6.2
50°-60°	184.6	3.8
60°-70°	100.1	2.1
70°-80°	57.0	1.2
80°-90°	20.0	0.4
90°-100°	76.7	1.6
100°-110°	546.7	11.3
110°-120°	742.1	15.3
120°-130°	604.0	12.5
130°-140°	485.8	10.0
140°-150°	383.0	7.9
150°-160°	280.1	5.8
160°-170°	173.9	3.6
170°-180°	59.3	1.2
0°-30°	489.1	10.1
0°-40°	828.0	17.1
0°-60°	1310.9	27.1
0°-90°	1488.1	30.7
90°-120°	1365.5	28.2
90°-150°	2838.4	58.6
90°-180°	3352.0	69.3
0°-180°	4839.8	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	4	8	12	12	2
95°	31	58	31	36	43	35
105°	122	187	710	907	600	128
115°	216	262	612	1272	1487	214
125°	310	352	577	1009	1193	275
135°	385	427	581	831	954	296
145°	455	494	585	724	800	286
155°	534	553	596	656	687	245
165°	593	600	612	628	640	166
175°	624	628	624	620	616	59
180°	624	624	624	624	624	

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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	8.8	9.0	8.4	7.8
90°	0.0	3.8	7.8	11.8	11.8
92.5°	9.4	13.3	17.3	24.4	27.5
95°	31.4	58.3	31.4	35.5	43.2
97.5°	55.7	111.7	230.7	68.1	58.9
100°	74.6	139.8	463.1	136.3	90.3
102.5°	93.4	161.7	626.3	359.7	197.0
105°	121.7	186.9	710.3	907.4	600.4
107.5°	149.9	199.0	678.1	1320.6	1236.9
110°	168.7	214.8	659.3	1387.6	1491.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.6	233.6	640.4	1348.4	1522.6
115°	215.8	261.9	612.2	1272.4	1487.3
117.5°	244.9	290.1	605.1	1190.1	1411.2
120°	266.8	309.1	592.6	1127.6	1357.8
122.5°	282.5	327.8	576.9	1073.8	1285.6
125°	310.0	352.2	576.9	1008.8	1193.0
127.5°	332.8	375.7	577.6	933.4	1115.3
130°	345.3	391.4	580.8	883.0	1055.6
132.5°	361.0	407.1	580.8	860.3	1002.2
135°	384.6	426.8	580.8	830.8	953.6
137.5°	404.2	449.5	580.8	798.2	903.4
140°	419.9	462.1	580.8	779.2	875.1
142.5°	435.6	474.7	583.9	757.1	846.8
145°	455.2	493.6	584.7	723.8	800.5
147.5°	478.8	512.5	589.4	699.9	758.9
150°	494.5	525.1	592.6	683.9	733.8
152.5°	510.1	537.8	592.6	671.2	711.9
155°	533.7	552.9	596.5	656.0	686.7
157.5°	552.5	570.9	601.2	646.4	668.7
160°	565.1	580.4	604.3	640.1	659.3
162.5°	574.5	589.9	607.5	636.8	649.9
165°	592.6	600.2	612.2	628.1	639.6
167.5°	602.8	609.7	616.1	624.1	631.0
170°	612.2	616.0	616.1	624.0	627.9
172.5°	615.3	622.2	619.2	620.9	624.7
175°	624.0	627.8	624.0	619.9	616.1
177.5°	624.0	627.0	624.0	623.9	620.8
180°	624.0	624.0	624.0	624.0	624.0

(END OF REPORT)