

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: P621772

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621772
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-050U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

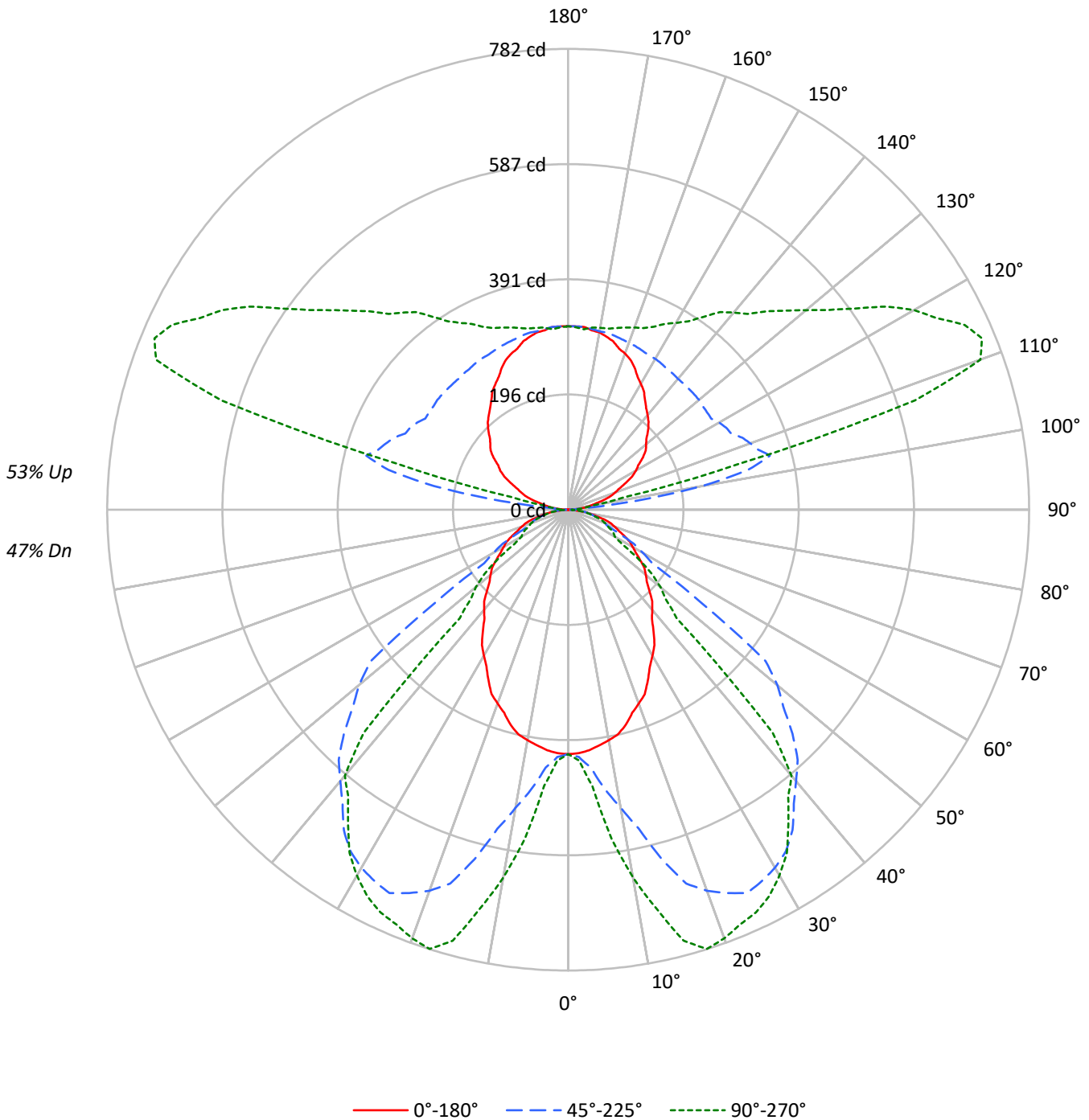
Lumens per Lamp: N/A
Luminaire Lumens: 3159.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29
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



TEST NUMBER: P621772
CATALOG NUMBER: VLT-FB-050U-050D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621772

CATALOG NUMBER: VLT-FB-050U-050D-930-UNV-STD-W-4

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40	35
3	82	73	66	60	75	67	61	56	57	53	49	47	44	42	39	36	35	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	58	50	44	63	54	47	42	46	41	37	38	35	31	32	29	26	23
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	23	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15
10	47	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	13

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



TEST NUMBER: P621772

CATALOG NUMBER: VLT-FB-050U-050D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.4
10°-20°	165.0	5.2
20°-30°	279.4	8.8
30°-40°	338.9	10.7
40°-50°	298.3	9.4
50°-60°	184.6	5.8
60°-70°	100.1	3.2
70°-80°	57.0	1.8
80°-90°	19.3	0.6
90°-100°	38.3	1.2
100°-110°	272.7	8.6
110°-120°	370.3	11.7
120°-130°	301.4	9.5
130°-140°	242.4	7.7
140°-150°	191.1	6.0
150°-160°	139.7	4.4
160°-170°	86.8	2.7
170°-180°	29.6	0.9
0°-30°	489.1	15.5
0°-40°	828.0	26.2
0°-60°	1310.9	41.5
0°-90°	1487.4	47.1
90°-120°	681.3	21.6
90°-150°	1416.2	44.8
90°-180°	1672.0	52.9
0°-180°	3159.6	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	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	93	354	453	300	64
115°	108	131	305	635	742	107
125°	155	176	288	503	595	137
135°	192	213	290	414	476	148
145°	227	246	292	361	399	143
155°	266	276	298	327	343	122
165°	296	300	305	313	319	83
175°	311	313	311	309	307	29
180°	311	311	311	311	311	

TEST NUMBER: P621772

CATALOG NUMBER: VLT-FB-050U-050D-930-UNV-STD-W-4

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	8.4	8.2	7.2	6.6
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.6	12.2	13.7
95°	15.7	29.1	15.7	17.7	21.5
97.5°	27.8	55.8	115.1	34.0	29.4
100°	37.2	69.7	231.0	68.0	45.0
102.5°	46.6	80.7	312.5	179.5	98.3
105°	60.7	93.2	354.4	452.7	299.6
107.5°	74.8	99.3	338.3	658.9	617.1
110°	84.2	107.2	328.9	692.3	744.0



TEST NUMBER: P621772

CATALOG NUMBER: VLT-FB-050U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.6	116.6	319.5	672.7	759.7
115°	107.7	130.7	305.4	634.8	742.0
117.5°	122.2	144.8	301.9	593.8	704.1
120°	133.1	154.2	295.6	562.6	677.4
122.5°	141.0	163.6	287.8	535.7	641.4
125°	154.7	175.7	287.8	503.3	595.2
127.5°	166.0	187.5	288.2	465.7	556.4
130°	172.3	195.3	289.8	440.5	526.7
132.5°	180.1	203.1	289.8	429.2	500.0
135°	191.9	212.9	289.8	414.5	475.8
137.5°	201.7	224.3	289.8	398.2	450.7
140°	209.5	230.6	289.8	388.7	436.6
142.5°	217.3	236.9	291.3	377.7	422.5
145°	227.1	246.3	291.7	361.1	399.4
147.5°	238.9	255.7	294.1	349.2	378.7
150°	246.7	262.0	295.6	341.2	366.1
152.5°	254.5	268.3	295.6	334.9	355.2
155°	266.3	275.8	297.6	327.3	342.6
157.5°	275.7	284.9	299.9	322.5	333.6
160°	281.9	289.6	301.5	319.4	328.9
162.5°	286.6	294.3	303.1	317.7	324.2
165°	295.6	299.5	305.4	313.4	319.1
167.5°	300.7	304.2	307.4	311.4	314.8
170°	305.4	307.3	307.4	311.3	313.3
172.5°	307.0	310.4	309.0	309.8	311.7
175°	311.3	313.2	311.3	309.3	307.4
177.5°	311.3	312.8	311.3	311.3	309.7
180°	311.3	311.3	311.3	311.3	311.3

(END OF REPORT)