

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: P621834

Luminaire Tested: VLT-FB-0U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621834
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-100D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

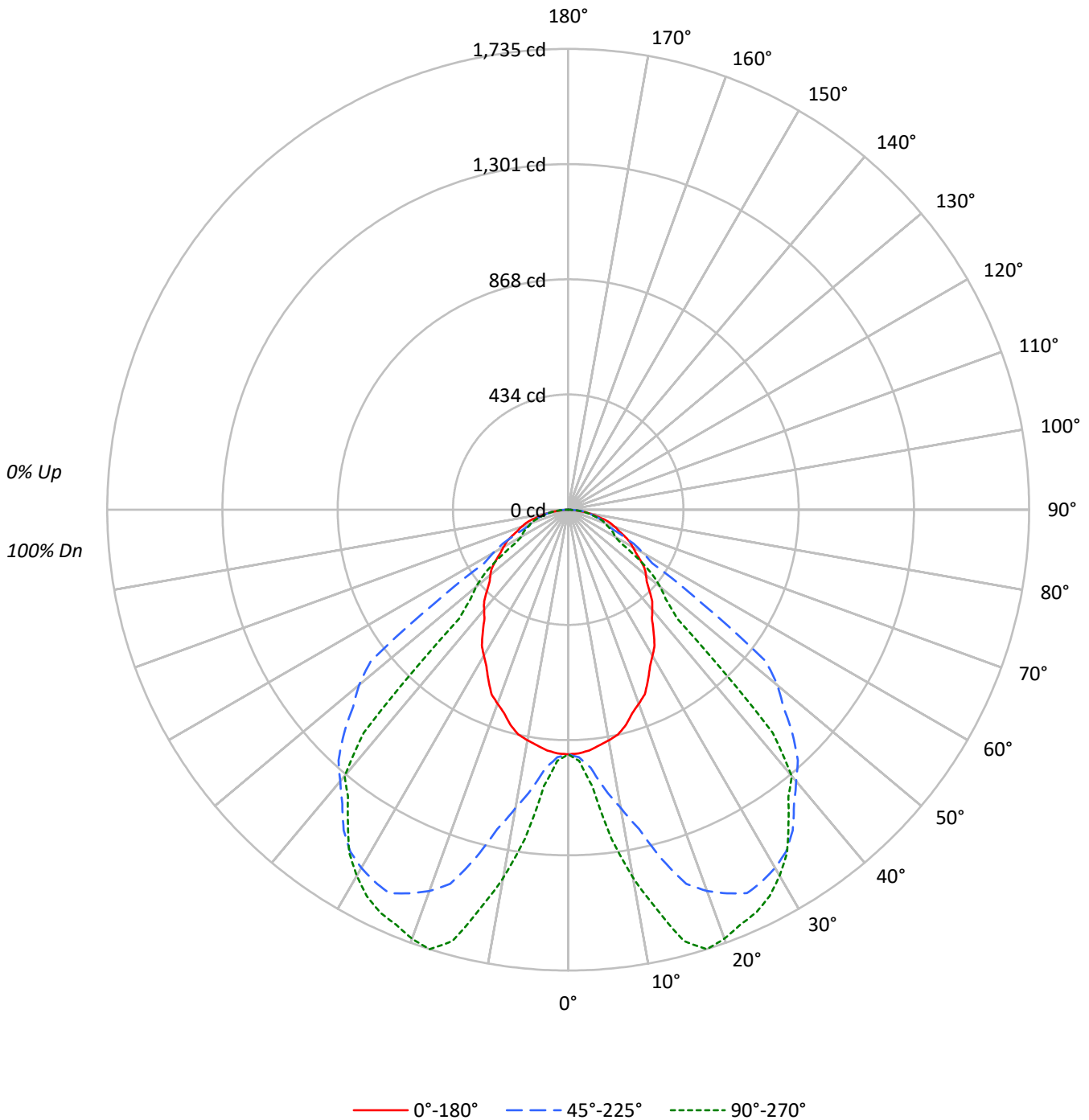
Lumens per Lamp: N/A
Luminaire Lumens: 3300.7 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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: P621834
CATALOG NUMBER: VLT-FB-0U-100D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621834

CATALOG NUMBER: VLT-FB-OU-100D-940-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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75																												
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65																												
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56																												
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49																												
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44																												
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39																												
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35																												
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6610	6610	6610
5°	6554	7025	7525
10°	6425	8308	10258
15°	6231	10125	12489
20°	5933	11665	13124
25°	5618	12614	13251
30°	5258	12906	13186
35°	4903	12906	12660
40°	4613	12504	12258
45°	4388	12121	5871
50°	4263	11474	5057
55°	4146	7682	4005
60°	4030	4674	2902
65°	3941	3561	3019
70°	3888	3103	3103
75°	3790	3219	3114
80°	3327	3248	3095
85°	2470	3392	2931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12121 cd/sqm



TEST NUMBER: P621834
 CATALOG NUMBER: VLT-FB-OU-100D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	366.2	11.1
20°-30°	620.3	18.8
30°-40°	752.5	22.8
40°-50°	662.3	20.1
50°-60°	409.8	12.4
60°-70°	222.2	6.7
70°-80°	126.6	3.8
80°-90°	41.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1085.9	32.9
0°-40°	1838.3	55.7
0°-60°	2910.5	88.2
0°-90°	3300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	910	939	975	1017	1045	86
15°	839	967	1363	1612	1681	235
25°	710	971	1593	1641	1674	326
35°	560	900	1473	1453	1445	351
45°	432	740	1194	1012	578	335
55°	331	516	614	355	320	297
65°	232	291	210	180	178	230
75°	137	120	116	114	112	143
85°	30	41	41	37	36	38
90°	0	0	0	0	0	



TEST NUMBER: P621834

CATALOG NUMBER: VLT-FB-OU-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.1	921.1	921.1	921.1	921.1
2.5°	918.1	928.3	933.0	942.1	946.5
5°	909.8	939.1	975.3	1017.2	1044.6
7.5°	895.2	947.6	1062.2	1194.2	1250.5
10°	881.7	953.1	1140.1	1330.9	1407.8
12.5°	866.8	958.7	1231.4	1462.7	1541.1
15°	838.7	966.8	1362.9	1611.6	1681.1
17.5°	802.4	971.9	1476.7	1690.4	1735.0
20°	776.9	972.8	1527.6	1700.3	1718.6
22.5°	752.9	973.7	1563.6	1676.2	1691.6
25°	709.5	971.3	1593.1	1640.7	1673.6
27.5°	666.1	960.4	1578.5	1616.9	1640.7
30°	634.6	949.5	1557.6	1589.4	1591.3
32.5°	604.7	931.2	1526.1	1535.4	1532.9
35°	559.7	900.2	1473.3	1452.6	1445.2
37.5°	517.8	859.0	1396.2	1362.8	1361.0
40°	492.4	829.2	1334.8	1303.1	1308.6
42.5°	468.4	794.9	1279.4	1242.2	1139.3
45°	432.4	740.0	1194.4	1012.3	578.5
47.5°	401.4	677.4	1098.2	542.3	498.0
50°	381.9	634.5	1027.8	476.8	453.0
52.5°	362.4	594.5	936.4	428.7	397.6
55°	331.4	516.2	614.0	354.9	320.1
57.5°	301.8	433.9	375.2	275.8	238.1
60°	280.8	385.1	325.7	222.3	202.2
62.5°	261.3	345.2	277.8	197.2	193.2
65°	232.1	290.7	209.7	179.7	177.8
67.5°	204.8	238.9	159.9	161.7	159.9
70°	185.3	201.8	147.9	149.7	147.9
72.5°	167.4	166.3	135.9	134.7	132.9
75°	136.7	120.2	116.1	114.2	112.3
77.5°	104.5	88.7	93.6	91.7	89.9
80°	80.5	75.0	78.6	76.7	74.9
82.5°	59.5	61.4	63.7	60.2	58.4
85°	30.0	40.9	41.2	37.4	35.6
87.5°	9.0	17.8	16.5	13.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)