

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: P621826

Luminaire Tested: VLT-FB-0U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621826
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

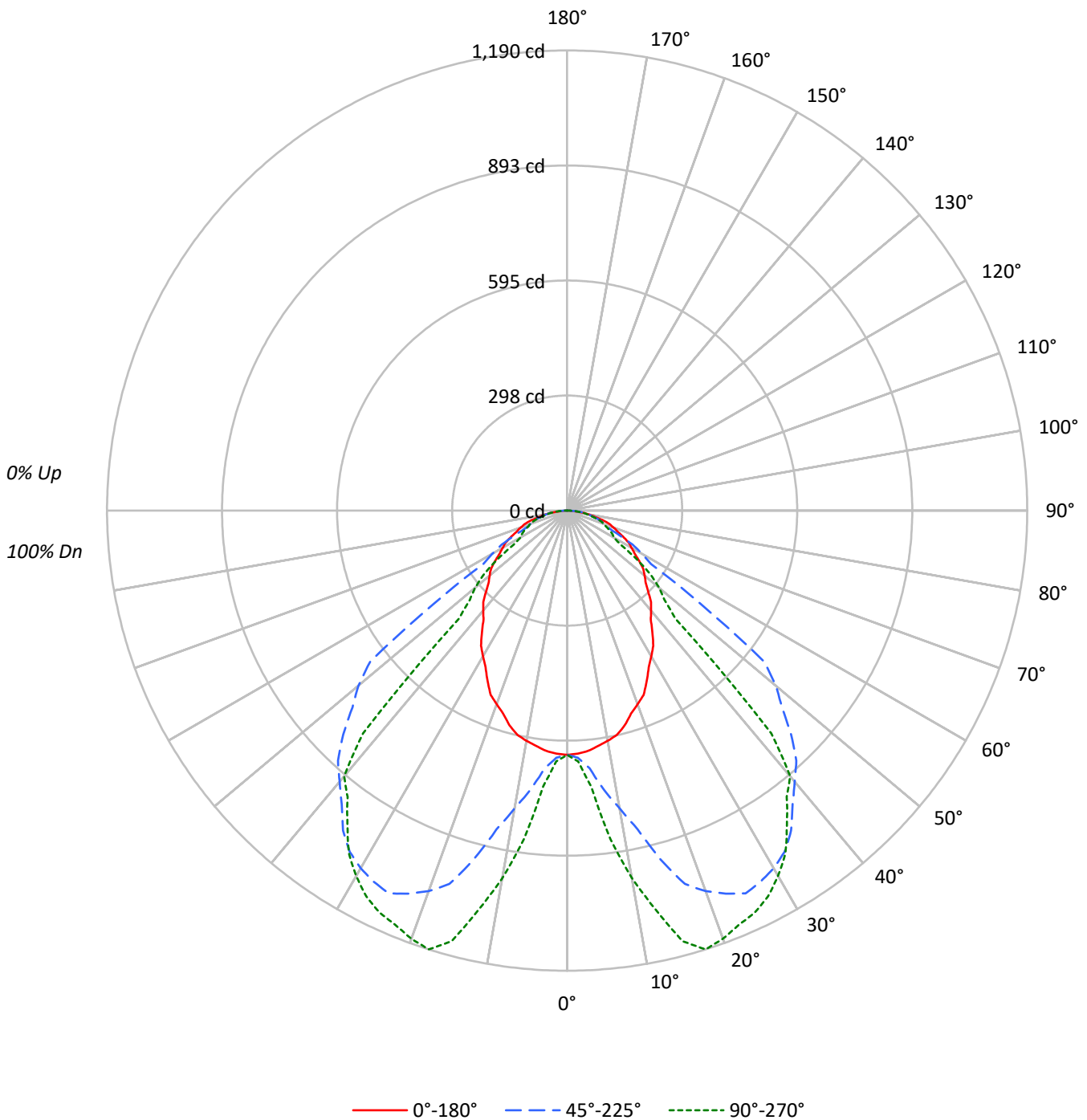
Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P621826
CATALOG NUMBER: VLT-FB-0U-075D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621826

CATALOG NUMBER: VLT-FB-OU-075D-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	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													100															
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75													75															
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65													65															
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56													56															
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49													49															
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44													44															
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39													39															
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35													35															
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31													31															
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28													28															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4532	4532	4532
5°	4493	4817	5159
10°	4405	5696	7033
15°	4272	6942	8563
20°	4068	7998	8998
25°	3852	8649	9086
30°	3605	8849	9040
35°	3362	8849	8680
40°	3162	8573	8405
45°	3009	8310	4025
50°	2923	7867	3467
55°	2842	5267	2746
60°	2763	3205	1989
65°	2703	2442	2070
70°	2667	2127	2127
75°	2598	2207	2135
80°	2281	2227	2120
85°	1688	2322	2009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8310 cd/sqm



TEST NUMBER: P621826

CATALOG NUMBER: VLT-FB-OU-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.0
10°-20°	251.1	11.1
20°-30°	425.3	18.8
30°-40°	515.9	22.8
40°-50°	454.1	20.1
50°-60°	281.0	12.4
60°-70°	152.4	6.7
70°-80°	86.8	3.8
80°-90°	28.4	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°	744.5	32.9
0°-40°	1260.4	55.7
0°-60°	1995.5	88.2
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	624	644	669	697	716	59
15°	575	663	934	1105	1153	161
25°	486	666	1092	1125	1148	223
35°	384	617	1010	996	991	241
45°	296	507	819	694	397	230
55°	227	354	421	243	220	203
65°	159	199	144	123	122	158
75°	94	82	80	78	77	98
85°	20	28	28	26	24	26
90°	0	0	0	0	0	



TEST NUMBER: P621826

CATALOG NUMBER: VLT-FB-OU-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.5	631.5	631.5	631.5	631.5
2.5°	629.4	636.5	639.7	645.9	648.9
5°	623.8	643.9	668.7	697.4	716.2
7.5°	613.8	649.7	728.3	818.7	857.4
10°	604.5	653.5	781.7	912.5	965.2
12.5°	594.3	657.3	844.3	1002.9	1056.6
15°	575.0	662.9	934.4	1104.9	1152.6
17.5°	550.1	666.3	1012.4	1158.9	1189.6
20°	532.7	666.9	1047.4	1165.7	1178.3
22.5°	516.2	667.6	1072.0	1149.2	1159.8
25°	486.5	665.9	1092.3	1124.9	1147.5
27.5°	456.7	658.5	1082.3	1108.6	1124.9
30°	435.1	651.0	1067.9	1089.7	1091.0
32.5°	414.6	638.5	1046.3	1052.7	1050.9
35°	383.8	617.2	1010.1	995.9	990.9
37.5°	355.0	589.0	957.3	934.4	933.1
40°	337.6	568.5	915.2	893.4	897.2
42.5°	321.1	545.0	877.2	851.7	781.2
45°	296.5	507.3	818.9	694.0	396.6
47.5°	275.2	464.4	752.9	371.8	341.4
50°	261.8	435.0	704.7	326.9	310.6
52.5°	248.5	407.6	642.0	294.0	272.6
55°	227.2	353.9	421.0	243.3	219.5
57.5°	206.9	297.5	257.2	189.1	163.3
60°	192.5	264.1	223.3	152.4	138.6
62.5°	179.2	236.7	190.5	135.2	132.5
65°	159.2	199.3	143.8	123.2	121.9
67.5°	140.4	163.8	109.6	110.9	109.6
70°	127.1	138.4	101.4	102.7	101.4
72.5°	114.7	114.0	93.2	92.4	91.1
75°	93.7	82.4	79.6	78.3	77.0
77.5°	71.6	60.8	64.2	62.9	61.6
80°	55.2	51.4	53.9	52.6	51.3
82.5°	40.8	42.1	43.6	41.3	40.0
85°	20.5	28.1	28.2	25.6	24.4
87.5°	6.2	12.2	11.3	9.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)