

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: P621487

Luminaire Tested: VLT-F-0U-075D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621487  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-F-0U-075D-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

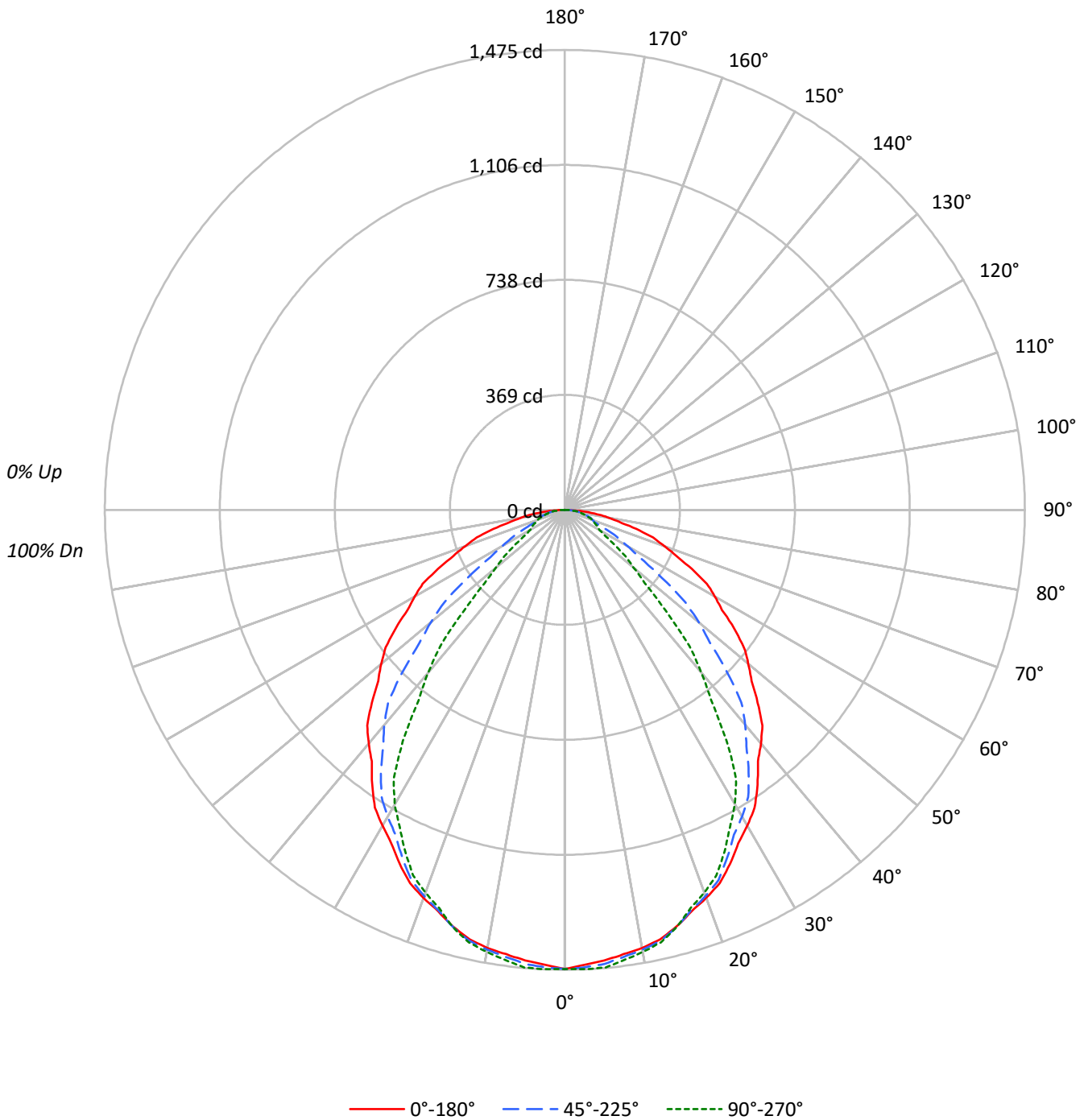
Lumens per Lamp: N/A  
Luminaire Lumens: 3002.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P621487  
CATALOG NUMBER: VLT-F-OU-075D-830-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P621487

CATALOG NUMBER: VLT-F-OU-075D-830-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	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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87			87	
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75	
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65			65	
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51			51	
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45			45	
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41			41	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37			37	
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33			33	
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31			31	

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

	0°	45°	90°
0°	10564	10564	10564
5°	10451	10528	10616
10°	10395	10439	10494
15°	10282	10293	10293
20°	10116	10069	9976
25°	9923	9754	9585
30°	9691	9414	9036
35°	9433	9006	7927
40°	9161	8434	6382
45°	8875	7470	4631
50°	8574	6248	3208
55°	8277	4757	2397
60°	7967	3295	1811
65°	7619	2350	1859
70°	7117	1979	1916
75°	6579	2024	1941
80°	5719	2136	2013
85°	4635	2379	2001

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8875 cd/sqm



TEST NUMBER: P621487  
 CATALOG NUMBER: VLT-F-OU-075D-830-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	4.6
10°-20°	390.1	13.0
20°-30°	567.5	18.9
30°-40°	627.8	20.9
40°-50°	539.0	18.0
50°-60°	373.2	12.4
60°-70°	222.4	7.4
70°-80°	109.6	3.6
80°-90°	33.8	1.1
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°	1096.3	36.5
0°-40°	1724.1	57.4
0°-60°	2636.2	87.8
0°-90°	3002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1451	1473	1462	1460	1474	138
15°	1384	1402	1386	1378	1386	390
25°	1253	1262	1232	1211	1211	577
35°	1077	1074	1028	945	905	673
45°	874	860	736	532	456	675
55°	662	633	380	218	192	591
65°	449	361	138	111	110	444
75°	237	103	73	71	70	250
85°	56	28	29	26	24	68
90°	0	0	0	0	0	



TEST NUMBER: P621487

CATALOG NUMBER: VLT-F-OU-075D-830-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1460.0	1476.7	1468.5	1468.7	1474.6
5°	1450.9	1473.2	1461.5	1460.3	1473.7
7.5°	1437.5	1458.0	1446.0	1444.5	1456.1
10°	1426.6	1445.9	1432.6	1429.8	1440.2
12.5°	1410.7	1430.1	1415.6	1410.4	1420.8
15°	1384.0	1401.8	1385.5	1378.1	1385.5
17.5°	1350.2	1365.1	1346.6	1334.8	1339.3
20°	1324.7	1339.5	1318.6	1302.0	1306.4
22.5°	1296.7	1309.2	1285.7	1266.6	1269.9
25°	1253.2	1262.1	1231.9	1210.6	1210.6
27.5°	1204.8	1210.2	1175.0	1152.7	1146.4
30°	1169.5	1172.5	1136.1	1109.8	1090.5
32.5°	1133.0	1134.8	1093.5	1051.1	1021.1
35°	1076.8	1073.8	1028.1	945.1	904.9
37.5°	1016.8	1010.3	956.3	829.9	770.2
40°	977.9	969.0	900.3	748.3	681.3
42.5°	937.8	925.3	838.3	664.1	590.1
45°	874.5	859.6	736.1	532.1	456.3
47.5°	811.8	792.2	631.5	412.2	347.1
50°	768.0	747.2	559.7	339.5	287.4
52.5°	724.2	703.4	486.7	285.0	243.6
55°	661.6	633.3	380.2	218.4	191.6
57.5°	597.7	557.2	283.2	170.2	149.3
60°	555.1	501.6	229.6	141.1	126.2
62.5°	513.7	445.9	188.3	123.1	120.1
65°	448.7	360.9	138.4	111.0	109.5
67.5°	386.6	275.4	102.8	100.0	98.6
70°	339.2	217.2	94.3	92.7	91.3
72.5°	296.6	166.3	85.8	84.2	82.7
75°	237.3	103.4	73.0	71.4	70.0
77.5°	177.3	65.2	60.2	58.7	57.2
80°	138.4	53.6	51.7	50.2	48.7
82.5°	104.3	43.4	42.0	40.4	38.9
85°	56.3	28.0	28.9	25.8	24.3
87.5°	19.5	13.5	13.4	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P621487

CATALOG NUMBER: VLT-F-0U-075D-830-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.76	21.23	20.12	21.54	21.86	11.99	13.46	12.36	13.77	14.09
	3H	21.29	22.61	21.67	22.94	23.30	13.39	14.70	13.77	15.03	15.39
	4H	21.84	23.07	22.24	23.42	23.79	14.07	15.30	14.47	15.65	16.03
	6H	22.26	23.40	22.67	23.76	24.16	14.69	15.82	15.10	16.19	16.58
	8H	22.41	23.49	22.84	23.88	24.28	14.93	16.01	15.36	16.40	16.80
	12H	22.51	23.54	22.94	23.92	24.35	15.11	16.14	15.54	16.53	16.96
4H	2H	19.66	20.89	20.06	21.24	21.62	12.68	13.91	13.08	14.26	14.64
	3H	21.35	22.36	21.76	22.76	23.17	14.28	15.30	14.69	15.70	16.10
	4H	21.96	22.87	22.39	23.29	23.73	15.10	16.01	15.53	16.43	16.87
	6H	22.48	23.27	22.94	23.72	24.18	15.87	16.66	16.33	17.10	17.57
	8H	22.68	23.42	23.14	23.86	24.33	16.17	16.91	16.63	17.36	17.82
	12H	22.83	23.49	23.32	23.97	24.44	16.41	17.07	16.90	17.55	18.02
8H	4H	21.91	22.65	22.38	23.10	23.57	15.59	16.33	16.06	16.78	17.25
	6H	22.47	23.08	22.97	23.57	24.05	16.49	17.11	16.99	17.60	18.08
	8H	22.70	23.25	23.22	23.76	24.25	16.89	17.44	17.40	17.95	18.44
	12H	22.91	23.40	23.43	23.89	24.46	17.23	17.72	17.74	18.21	18.78
12H	4H	21.89	22.55	22.37	23.03	23.50	15.67	16.33	16.15	16.81	17.28
	6H	22.44	22.99	22.95	23.50	23.99	16.61	17.16	17.12	17.67	18.16
	8H	22.71	23.19	23.22	23.69	24.25	17.08	17.56	17.59	18.05	18.62