

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: P621412

Luminaire Tested: VLT-F-025U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621412  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-F-025U-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

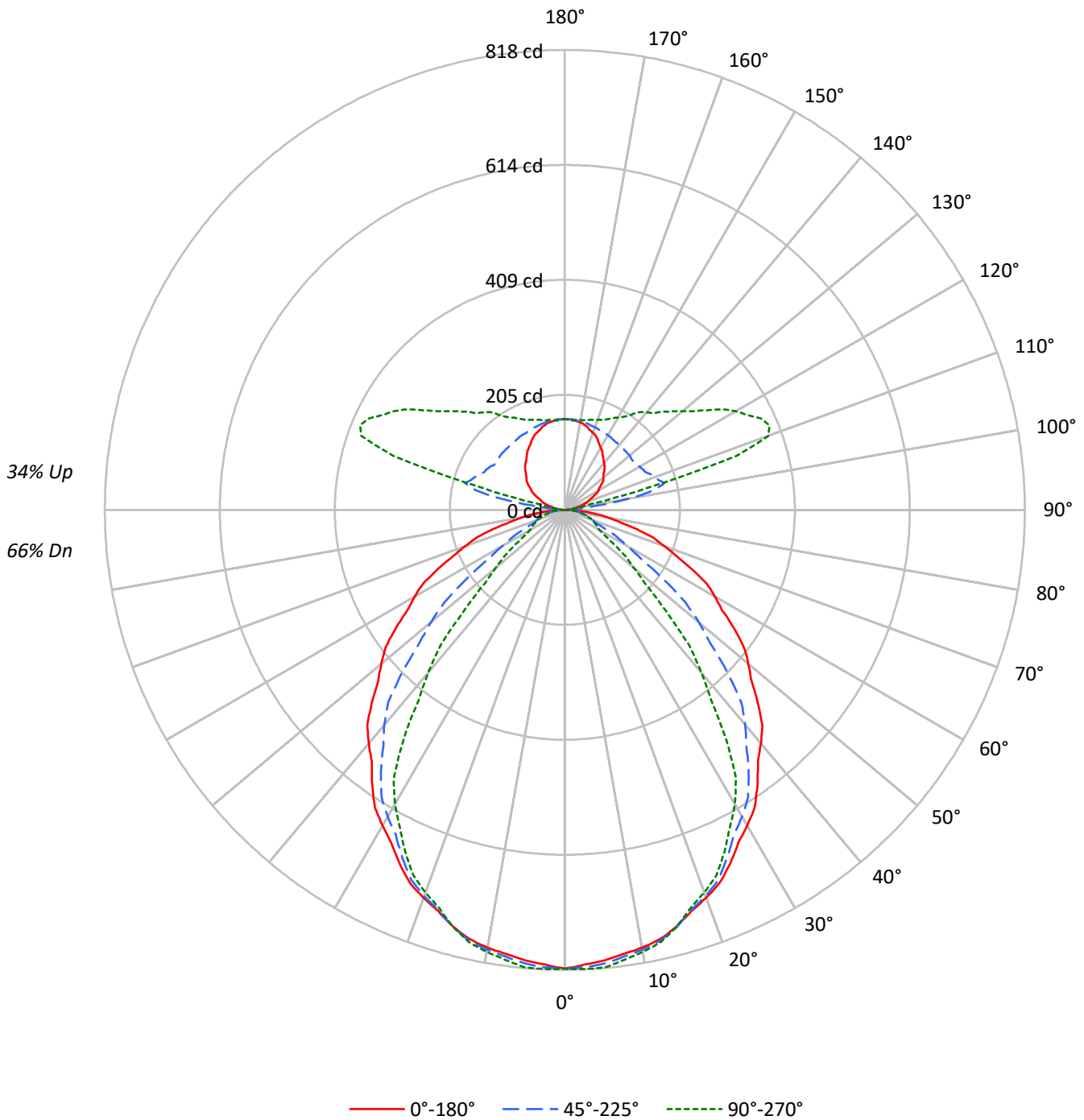
Lumens per Lamp: N/A  
Luminaire Lumens: 2531.2 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.7  
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: P621412  
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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	102	98	95	91	96	93	89	87	82	80	78	73	71	69	64	63	61	57				
2	94	87	81	76	88	82	77	73	73	69	66	65	62	59	57	55	53	49				
3	86	77	70	65	81	73	67	62	65	61	57	58	55	51	52	49	46	43				
4	79	69	61	56	75	66	59	53	59	53	49	53	48	45	47	44	41	38				
5	73	62	54	48	69	59	52	47	53	47	43	48	43	40	43	39	36	33				
6	68	56	48	43	64	53	46	41	48	42	38	44	39	35	39	35	32	30				
7	63	51	43	38	59	49	42	37	44	38	34	40	35	32	36	32	29	27				
8	59	47	39	34	55	45	38	33	41	35	31	37	32	28	33	29	26	24				
9	55	43	35	30	52	41	34	30	37	32	28	34	29	26	31	27	24	22				
10	51	40	32	28	49	38	31	27	35	29	25	32	27	24	29	25	22	20				

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

	0°	45°	90°
0°	5857	5857	5857
5°	5794	5837	5886
10°	5763	5788	5818
15°	5700	5706	5706
20°	5608	5582	5531
25°	5501	5408	5314
30°	5373	5219	5010
35°	5230	4993	4395
40°	5079	4676	3538
45°	4920	4142	2568
50°	4754	3464	1780
55°	4589	2637	1329
60°	4418	1827	1005
65°	4223	1302	1031
70°	3944	1097	1062
75°	3646	1123	1076
80°	3170	1186	1116
85°	2569	1317	1112

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4920 cd/sqm



TEST NUMBER: P621412

CATALOG NUMBER: VLT-F-025U-050D-930-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	216.3	8.5
20°-30°	314.6	12.4
30°-40°	348.1	13.8
40°-50°	298.8	11.8
50°-60°	206.9	8.2
60°-70°	123.3	4.9
70°-80°	60.7	2.4
80°-90°	19.1	0.8
90°-100°	19.8	0.8
100°-110°	141.3	5.6
110°-120°	191.9	7.6
120°-130°	156.1	6.2
130°-140°	125.6	5.0
140°-150°	99.0	3.9
150°-160°	72.4	2.9
160°-170°	45.0	1.8
170°-180°	15.3	0.6
0°-30°	607.8	24.0
0°-40°	955.8	37.8
0°-60°	1461.6	57.7
0°-90°	1664.7	65.8
90°-120°	353.0	13.9
90°-150°	733.8	29.0
90°-180°	866.0	34.2
0°-180°	2531.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	804	817	810	810	817	76
15°	767	777	768	764	768	216
25°	695	700	683	671	671	320
35°	597	595	570	524	502	373
45°	485	477	408	295	253	374
55°	367	351	211	121	106	328
65°	249	200	77	62	61	246
75°	132	57	40	40	39	139
85°	31	16	16	14	14	36
90°	0	1	2	3	3	2
95°	8	15	8	9	11	9
105°	31	48	184	235	155	33
115°	56	68	158	329	384	55
125°	80	91	149	261	308	71
135°	99	110	150	215	246	76
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	153	155	158	162	165	43
175°	161	162	161	160	159	15
180°	161	161	161	161	161	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.2	816.2	816.2	816.2	816.2
2.5°	809.5	818.7	814.2	814.3	817.6
5°	804.4	816.8	810.3	809.6	817.1
7.5°	797.0	808.4	801.7	800.8	807.3
10°	790.9	801.6	794.3	792.7	798.5
12.5°	782.1	792.9	784.8	781.9	787.7
15°	767.3	777.2	768.1	764.0	768.1
17.5°	748.6	756.8	746.6	740.0	742.5
20°	734.4	742.7	731.0	721.8	724.3
22.5°	718.9	725.8	712.8	702.3	704.1
25°	694.8	699.7	683.0	671.2	671.2
27.5°	668.0	670.9	651.4	639.1	635.6
30°	648.4	650.1	629.9	615.3	604.6
32.5°	628.2	629.2	606.3	582.8	566.1
35°	597.0	595.3	570.0	524.0	501.7
37.5°	563.8	560.1	530.2	460.1	427.0
40°	542.2	537.2	499.2	414.9	377.7
42.5°	519.9	513.0	464.8	368.2	327.2
45°	484.8	476.6	408.1	295.0	253.0
47.5°	450.1	439.2	350.1	228.5	192.4
50°	425.8	414.3	310.3	188.2	159.4
52.5°	401.5	390.0	269.8	158.0	135.1
55°	366.8	351.1	210.8	121.1	106.2
57.5°	331.4	308.9	157.0	94.3	82.8
60°	307.8	278.1	127.3	78.2	70.0
62.5°	284.8	247.2	104.4	68.3	66.6
65°	248.7	200.1	76.7	61.5	60.7
67.5°	214.3	152.7	57.0	55.5	54.6
70°	188.0	120.4	52.3	51.4	50.6
72.5°	164.4	92.2	47.6	46.7	45.9
75°	131.5	57.3	40.5	39.6	38.8
77.5°	98.3	36.2	33.4	32.5	31.7
80°	76.7	29.7	28.7	27.8	27.0
82.5°	57.8	24.0	23.3	22.4	21.6
85°	31.2	15.5	16.0	14.3	13.5
87.5°	10.8	7.7	7.8	6.7	6.0
90°	0.0	1.0	2.0	3.0	3.0
92.5°	2.4	3.4	4.5	6.3	7.1
95°	8.1	15.1	8.1	9.2	11.2
97.5°	14.4	28.9	59.7	17.6	15.2
100°	19.3	36.1	119.7	35.2	23.3
102.5°	24.1	41.8	161.9	93.0	50.9
105°	31.4	48.3	183.6	234.6	155.2
107.5°	38.8	51.5	175.3	341.4	319.8
110°	43.6	55.5	170.4	358.7	385.5



TEST NUMBER: P621412

CATALOG NUMBER: VLT-F-025U-050D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	48.5	60.4	165.6	348.6	393.6
115°	55.8	67.7	158.3	328.9	384.5
117.5°	63.3	75.0	156.4	307.7	364.8
120°	69.0	79.9	153.2	291.5	351.0
122.5°	73.0	84.7	149.1	277.6	332.3
125°	80.1	91.1	149.1	260.8	308.4
127.5°	86.0	97.1	149.3	241.3	288.3
130°	89.3	101.2	150.1	228.3	272.9
132.5°	93.3	105.2	150.1	222.4	259.1
135°	99.4	110.3	150.1	214.8	246.5
137.5°	104.5	116.2	150.1	206.4	233.5
140°	108.6	119.5	150.1	201.4	226.2
142.5°	112.6	122.7	151.0	195.7	218.9
145°	117.7	127.6	151.2	187.1	207.0
147.5°	123.8	132.5	152.4	180.9	196.2
150°	127.8	135.8	153.2	176.8	189.7
152.5°	131.9	139.0	153.2	173.5	184.0
155°	138.0	142.9	154.2	169.6	177.5
157.5°	142.8	147.6	155.4	167.1	172.9
160°	146.1	150.1	156.2	165.5	170.4
162.5°	148.5	152.5	157.0	164.6	168.0
165°	153.2	155.2	158.3	162.4	165.4
167.5°	155.8	157.6	159.3	161.3	163.1
170°	158.3	159.3	159.3	161.3	162.3
172.5°	159.1	160.9	160.1	160.5	161.5
175°	161.3	162.3	161.3	160.3	159.3
177.5°	161.3	162.1	161.3	161.3	160.5
180°	161.3	161.3	161.3	161.3	161.3

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**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	15.13	16.08	15.95	16.92	17.95	7.36	8.32	8.18	9.15	10.18
	3H	16.63	17.48	17.47	18.33	19.39	8.72	9.57	9.56	10.42	11.48
	4H	17.15	17.95	18.00	18.80	19.87	9.38	10.18	10.23	11.04	12.11
	6H	17.55	18.29	18.41	19.15	20.23	9.98	10.71	10.84	11.57	12.66
	8H	17.68	18.39	18.56	19.26	20.35	10.21	10.91	11.08	11.78	12.87
	12H	17.77	18.43	18.64	19.30	20.41	10.37	11.04	11.25	11.91	13.02
4H	2H	14.97	15.77	15.83	16.62	17.70	7.99	8.79	8.85	9.64	10.72
	3H	16.62	17.28	17.48	18.16	19.25	9.55	10.22	10.42	11.10	12.19
	4H	17.21	17.81	18.09	18.69	19.81	10.35	10.95	11.23	11.84	12.95
	6H	17.71	18.23	18.60	19.13	20.25	11.10	11.61	11.99	12.52	13.64
	8H	17.90	18.38	18.79	19.28	20.41	11.39	11.87	12.29	12.77	13.90
	12H	18.03	18.46	18.94	19.38	20.52	11.61	12.05	12.52	12.97	14.10
8H	4H	17.13	17.62	18.03	18.52	19.65	10.81	11.30	11.71	12.20	13.32
	6H	17.67	18.07	18.59	19.01	20.14	11.70	12.10	12.62	13.04	14.17
	8H	17.91	18.26	18.84	19.19	20.34	12.09	12.45	13.03	13.38	14.53
	12H	18.10	18.41	19.03	19.34	20.53	12.42	12.73	13.35	13.65	14.85
12H	4H	17.09	17.52	18.00	18.44	19.58	10.87	11.30	11.78	12.22	13.35
	6H	17.64	18.00	18.58	18.93	20.08	11.81	12.17	12.74	13.10	14.25
	8H	17.89	18.20	18.82	19.13	20.32	12.26	12.57	13.19	13.50	14.69