

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: P621413

Luminaire Tested: VLT-F-025U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621413  
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-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

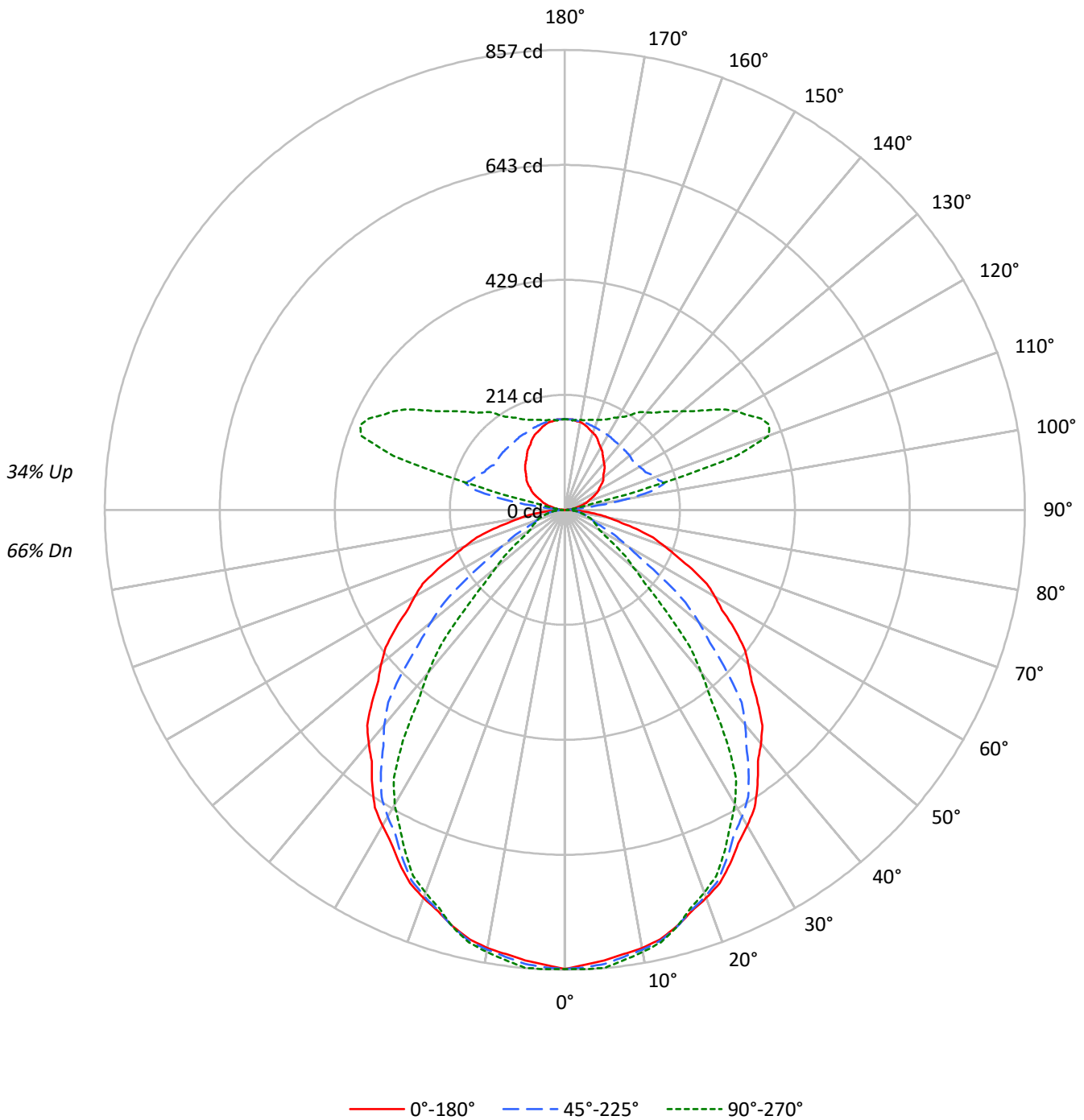
Lumens per Lamp: N/A  
Luminaire Lumens: 2652.7 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



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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°	6138	6138	6138
5°	6072	6117	6168
10°	6040	6065	6097
15°	5974	5980	5980
20°	5878	5850	5797
25°	5765	5668	5569
30°	5630	5470	5250
35°	5480	5233	4606
40°	5323	4900	3709
45°	5156	4340	2690
50°	4981	3630	1864
55°	4809	2764	1392
60°	4628	1915	1052
65°	4427	1365	1080
70°	4135	1150	1112
75°	3823	1176	1126
80°	3322	1240	1169
85°	2692	1383	1161

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5156 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	3.0
10°-20°	226.7	8.5
20°-30°	329.7	12.4
30°-40°	364.8	13.8
40°-50°	313.2	11.8
50°-60°	216.8	8.2
60°-70°	129.2	4.9
70°-80°	63.7	2.4
80°-90°	20.0	0.8
90°-100°	20.8	0.8
100°-110°	148.1	5.6
110°-120°	201.1	7.6
120°-130°	163.6	6.2
130°-140°	131.6	5.0
140°-150°	103.8	3.9
150°-160°	75.9	2.9
160°-170°	47.1	1.8
170°-180°	16.1	0.6
0°-30°	637.0	24.0
0°-40°	1001.7	37.8
0°-60°	1531.7	57.7
0°-90°	1744.6	65.8
90°-120°	369.9	13.9
90°-150°	769.0	29.0
90°-180°	908.0	34.2
0°-180°	2652.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	843	856	849	848	856	80
15°	804	814	805	801	805	226
25°	728	733	716	703	703	335
35°	626	624	597	549	526	391
45°	508	500	428	309	265	392
55°	384	368	221	127	111	344
65°	261	210	80	64	64	258
75°	138	60	42	42	41	145
85°	33	16	17	15	14	38
90°	0	1	2	3	3	2
95°	8	16	8	10	12	10
105°	33	51	192	246	163	35
115°	58	71	166	345	403	58
125°	84	95	156	273	323	75
135°	104	116	157	225	258	80
145°	123	134	158	196	217	77
155°	145	150	162	178	186	66
165°	160	163	166	170	173	45
175°	169	170	169	168	167	16
180°	169	169	169	169	169	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.4	855.4	855.4	855.4	855.4
2.5°	848.3	858.0	853.3	853.3	856.8
5°	843.0	856.0	849.2	848.5	856.3
7.5°	835.2	847.2	840.2	839.3	846.0
10°	828.9	840.1	832.4	830.8	836.8
12.5°	819.7	830.9	822.5	819.5	825.5
15°	804.1	814.5	805.0	800.7	805.0
17.5°	784.5	793.2	782.4	775.6	778.1
20°	769.7	778.3	766.1	756.5	759.1
22.5°	753.4	760.7	747.0	736.0	737.9
25°	728.1	733.3	715.8	703.4	703.4
27.5°	700.0	703.1	682.7	669.7	666.1
30°	679.5	681.3	660.1	644.8	633.6
32.5°	658.3	659.4	635.3	610.7	593.3
35°	625.6	623.9	597.4	549.1	525.8
37.5°	590.8	587.0	555.6	482.2	447.5
40°	568.2	563.0	523.1	434.8	395.9
42.5°	544.9	537.6	487.1	385.9	342.9
45°	508.1	499.5	427.7	309.2	265.1
47.5°	471.7	460.3	366.9	239.5	201.7
50°	446.2	434.2	325.2	197.3	167.0
52.5°	420.8	408.7	282.8	165.6	141.6
55°	384.4	368.0	220.9	126.9	111.3
57.5°	347.3	323.8	164.5	98.9	86.8
60°	322.5	291.4	133.4	82.0	73.3
62.5°	298.5	259.1	109.4	71.5	69.8
65°	260.7	209.7	80.4	64.5	63.6
67.5°	224.6	160.0	59.7	58.1	57.3
70°	197.1	126.2	54.8	53.9	53.0
72.5°	172.3	96.6	49.8	48.9	48.1
75°	137.9	60.1	42.4	41.5	40.6
77.5°	103.0	37.9	35.0	34.1	33.2
80°	80.4	31.2	30.0	29.1	28.3
82.5°	60.6	25.2	24.4	23.5	22.6
85°	32.7	16.3	16.8	15.0	14.1
87.5°	11.3	8.1	8.2	7.0	6.3
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.6	3.6	4.7	6.6	7.4
95°	8.5	15.8	8.5	9.6	11.7
97.5°	15.1	30.3	62.5	18.4	15.9
100°	20.2	37.9	125.5	36.9	24.5
102.5°	25.3	43.8	169.7	97.4	53.4
105°	33.0	50.6	192.4	245.8	162.7
107.5°	40.6	53.9	183.7	357.8	335.1
110°	45.7	58.2	178.6	375.9	404.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.8	63.3	173.5	365.3	412.5
115°	58.5	70.9	165.9	344.7	402.9
117.5°	66.3	78.6	163.9	322.4	382.3
120°	72.3	83.7	160.5	305.5	367.9
122.5°	76.5	88.8	156.3	290.9	348.3
125°	84.0	95.4	156.3	273.3	323.2
127.5°	90.2	101.8	156.5	252.9	302.2
130°	93.6	106.0	157.4	239.2	286.0
132.5°	97.8	110.3	157.4	233.1	271.5
135°	104.2	115.6	157.4	225.1	258.4
137.5°	109.5	121.8	157.4	216.3	244.7
140°	113.8	125.2	157.4	211.1	237.1
142.5°	118.0	128.6	158.2	205.1	229.4
145°	123.3	133.7	158.4	196.1	216.9
147.5°	129.7	138.9	159.7	189.6	205.6
150°	134.0	142.3	160.5	185.3	198.8
152.5°	138.2	145.7	160.5	181.8	192.9
155°	144.6	149.8	161.6	177.7	186.1
157.5°	149.7	154.7	162.9	175.1	181.2
160°	153.1	157.3	163.7	173.4	178.6
162.5°	155.7	159.8	164.6	172.5	176.1
165°	160.5	162.6	165.9	170.2	173.3
167.5°	163.3	165.2	166.9	169.1	171.0
170°	165.9	166.9	166.9	169.1	170.1
172.5°	166.7	168.6	167.8	168.2	169.3
175°	169.0	170.1	169.0	168.0	166.9
177.5°	169.0	169.9	169.0	169.0	168.2
180°	169.0	169.0	169.0	169.0	169.0

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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	15.29	16.25	16.11	17.08	18.11	7.53	8.48	8.35	9.31	10.34
	3H	16.79	17.64	17.63	18.49	19.55	8.89	9.74	9.72	10.58	11.64
	4H	17.31	18.11	18.16	18.97	20.04	9.55	10.35	10.40	11.20	12.27
	6H	17.71	18.45	18.58	19.31	20.39	10.14	10.88	11.00	11.73	12.82
	8H	17.85	18.55	18.72	19.43	20.51	10.37	11.07	11.24	11.94	13.03
	12H	17.93	18.60	18.81	19.47	20.58	10.53	11.20	11.41	12.07	13.18
4H	2H	15.13	15.94	15.99	16.79	17.86	8.16	8.96	9.01	9.81	10.88
	3H	16.78	17.44	17.65	18.33	19.41	9.72	10.38	10.58	11.26	12.35
	4H	17.37	17.98	18.25	18.86	19.97	10.51	11.12	11.39	12.00	13.11
	6H	17.87	18.39	18.77	19.30	20.41	11.26	11.78	12.15	12.68	13.80
	8H	18.06	18.54	18.96	19.44	20.57	11.55	12.04	12.45	12.93	14.06
	12H	18.19	18.63	19.11	19.55	20.68	11.77	12.21	12.69	13.13	14.26
8H	4H	17.30	17.78	18.19	18.68	19.81	10.97	11.46	11.87	12.36	13.49
	6H	17.84	18.23	18.76	19.18	20.31	11.86	12.26	12.78	13.20	14.33
	8H	18.07	18.42	19.00	19.36	20.50	12.25	12.61	13.19	13.54	14.69
	12H	18.26	18.58	19.20	19.50	20.70	12.58	12.89	13.51	13.81	15.01
12H	4H	17.25	17.69	18.17	18.61	19.74	11.03	11.46	11.94	12.38	13.51
	6H	17.81	18.16	18.74	19.10	20.24	11.97	12.33	12.91	13.26	14.41
	8H	18.05	18.37	18.99	19.29	20.49	12.42	12.73	13.35	13.66	14.86