

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: P621419

Luminaire Tested: VLT-F-025U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621419  
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-075D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

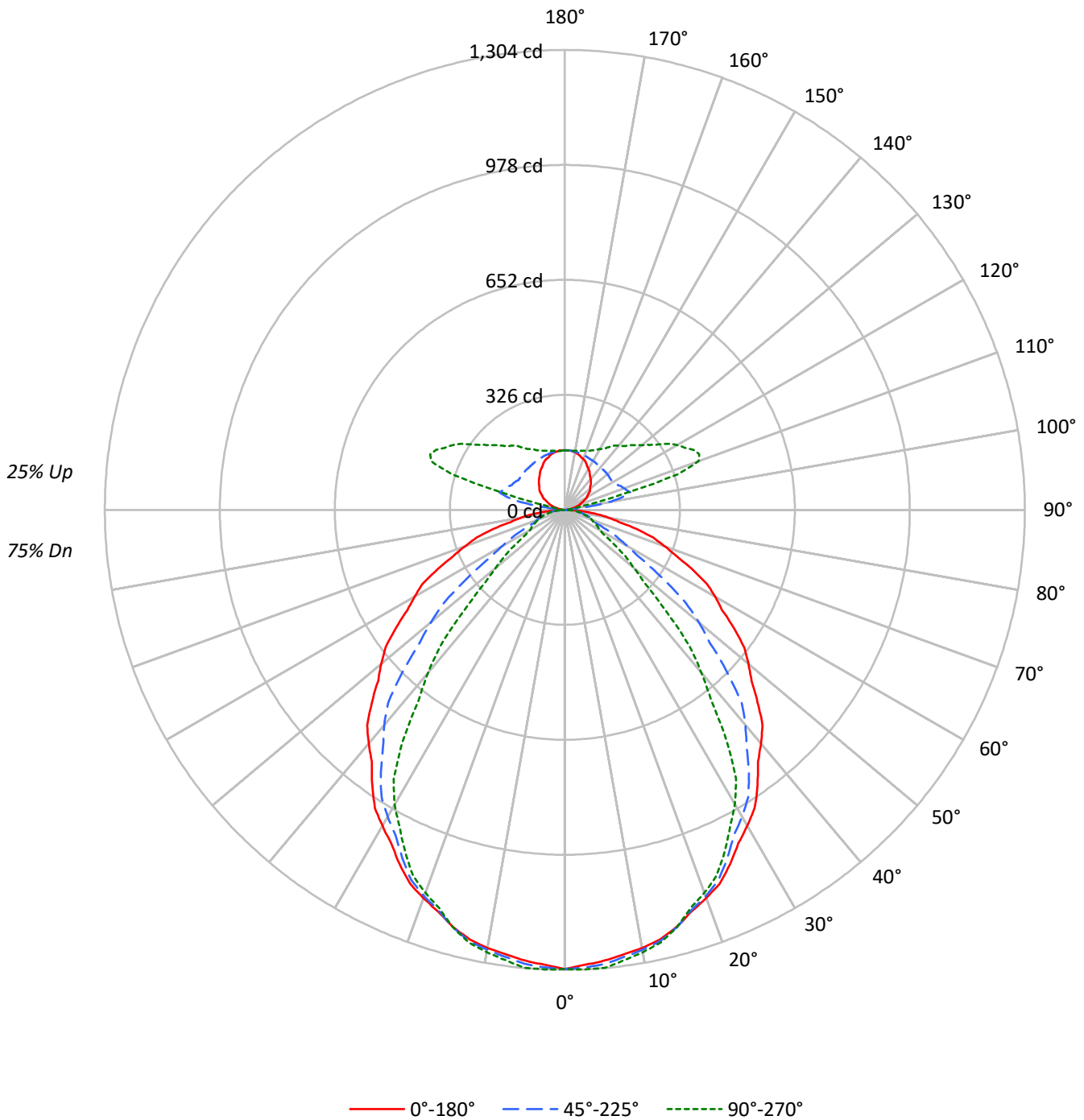
Lumens per Lamp: N/A  
Luminaire Lumens: 3563.6 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75		
1	104	100	97	93	99	96	92	89	87	84	82	79	77	75	71	70	69	65		
2	96	89	83	78	91	85	80	75	77	73	70	70	67	64	64	62	59	56		
3	88	79	72	66	84	76	69	64	69	64	60	63	59	56	58	55	52	49		
4	81	71	63	57	77	68	61	56	62	57	52	57	53	49	52	49	46	43		
5	75	64	56	50	71	61	54	49	56	50	46	52	47	43	48	44	40	38		
6	70	58	50	44	66	56	48	43	51	45	41	47	42	38	44	39	36	34		
7	65	53	45	39	62	51	43	38	47	41	36	43	38	34	40	36	33	30		
8	60	48	41	35	58	46	39	34	43	37	33	40	35	31	37	33	29	27		
9	57	44	37	32	54	43	36	31	40	34	30	37	32	28	34	30	27	25		
10	53	41	34	29	51	40	33	28	37	31	27	34	29	26	32	28	25	23		

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

	0°	45°	90°
0°	9344	9344	9344
5°	9243	9312	9389
10°	9194	9233	9282
15°	9094	9104	9104
20°	8947	8906	8824
25°	8776	8626	8478
30°	8571	8326	7992
35°	8342	7966	7011
40°	8102	7459	5645
45°	7849	6607	4095
50°	7584	5526	2838
55°	7320	4207	2121
60°	7047	2915	1602
65°	6738	2078	1644
70°	6294	1750	1693
75°	5817	1791	1716
80°	5058	1889	1777
85°	4100	2108	1770

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7849 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	3.4
10°-20°	345.0	9.7
20°-30°	501.9	14.1
30°-40°	555.2	15.6
40°-50°	476.7	13.4
50°-60°	330.1	9.3
60°-70°	196.7	5.5
70°-80°	96.9	2.7
80°-90°	30.3	0.9
90°-100°	20.8	0.6
100°-110°	148.1	4.2
110°-120°	201.1	5.6
120°-130°	163.6	4.6
130°-140°	131.6	3.7
140°-150°	103.8	2.9
150°-160°	75.9	2.1
160°-170°	47.1	1.3
170°-180°	16.1	0.5
0°-30°	969.6	27.2
0°-40°	1524.8	42.8
0°-60°	2331.6	65.4
0°-90°	2655.5	74.5
90°-120°	369.9	10.4
90°-150°	769.0	21.6
90°-180°	908.0	25.5
0°-180°	3563.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1283	1303	1293	1292	1303	122
15°	1224	1240	1225	1219	1225	345
25°	1108	1116	1090	1071	1071	510
35°	952	950	909	836	800	595
45°	773	760	651	471	404	597
55°	585	560	336	193	170	523
65°	397	319	122	98	97	393
75°	210	92	65	63	62	221
85°	50	25	26	23	22	58
90°	0	1	2	3	3	3
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°	1302.1	1302.1	1302.1	1302.1	1302.1
2.5°	1291.3	1306.0	1298.8	1299.0	1304.2
5°	1283.2	1303.0	1292.7	1291.6	1303.4
7.5°	1271.4	1289.6	1278.9	1277.6	1287.8
10°	1261.7	1278.8	1267.1	1264.6	1273.8
12.5°	1247.7	1264.8	1252.0	1247.4	1256.6
15°	1224.1	1239.8	1225.4	1218.8	1225.4
17.5°	1194.2	1207.4	1191.0	1180.6	1184.5
20°	1171.6	1184.8	1166.2	1151.5	1155.5
22.5°	1146.9	1157.9	1137.2	1120.3	1123.2
25°	1108.4	1116.3	1089.5	1070.7	1070.7
27.5°	1065.6	1070.3	1039.2	1019.5	1014.0
30°	1034.4	1037.0	1004.8	981.6	964.5
32.5°	1002.1	1003.7	967.1	929.7	903.1
35°	952.3	949.7	909.3	835.9	800.3
37.5°	899.3	893.6	845.8	734.0	681.2
40°	864.9	857.0	796.3	661.8	602.6
42.5°	829.4	818.4	741.4	587.4	521.9
45°	773.4	760.3	651.0	470.6	403.5
47.5°	718.0	700.7	558.5	364.6	307.0
50°	679.3	660.9	495.0	300.3	254.2
52.5°	640.5	622.1	430.4	252.1	215.5
55°	585.1	560.1	336.3	193.2	169.5
57.5°	528.6	492.9	250.5	150.5	132.1
60°	491.0	443.6	203.1	124.8	111.6
62.5°	454.4	394.4	166.5	108.9	106.3
65°	396.8	319.2	122.4	98.2	96.8
67.5°	341.9	243.6	90.9	88.5	87.2
70°	300.0	192.1	83.4	82.0	80.7
72.5°	262.3	147.1	75.9	74.5	73.2
75°	209.8	91.5	64.6	63.2	61.9
77.5°	156.8	57.7	53.3	51.9	50.6
80°	122.4	47.4	45.7	44.4	43.0
82.5°	92.3	38.4	37.1	35.8	34.4
85°	49.8	24.8	25.6	22.8	21.5
87.5°	17.2	12.2	12.3	10.3	9.2
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	17.44	18.49	18.17	19.23	20.10	9.68	10.73	10.40	11.46	12.34
	3H	18.95	19.89	19.69	20.63	21.54	11.04	11.98	11.78	12.73	13.64
	4H	19.47	20.35	20.23	21.11	22.03	11.71	12.59	12.46	13.34	14.27
	6H	19.88	20.69	20.65	21.46	22.39	12.30	13.12	13.07	13.88	14.82
	8H	20.02	20.79	20.80	21.57	22.51	12.53	13.31	13.31	14.09	15.03
	12H	20.10	20.84	20.89	21.61	22.58	12.71	13.44	13.49	14.22	15.18
4H	2H	17.29	18.18	18.05	18.93	19.85	10.32	11.20	11.08	11.95	12.87
	3H	18.95	19.68	19.72	20.47	21.41	11.88	12.61	12.66	13.41	14.34
	4H	19.54	20.20	20.33	21.00	21.97	12.69	13.35	13.47	14.14	15.11
	6H	20.05	20.62	20.85	21.43	22.41	13.43	14.00	14.24	14.82	15.80
	8H	20.24	20.77	21.05	21.58	22.57	13.73	14.26	14.54	15.08	16.06
	12H	20.38	20.85	21.20	21.69	22.68	13.95	14.43	14.78	15.27	16.26
8H	4H	19.47	20.01	20.28	20.82	21.80	13.15	13.69	13.96	14.50	15.48
	6H	20.02	20.45	20.85	21.31	22.30	14.04	14.48	14.88	15.34	16.32
	8H	20.25	20.64	21.10	21.49	22.50	14.44	14.83	15.28	15.68	16.68
	12H	20.45	20.79	21.30	21.63	22.69	14.76	15.11	15.61	15.95	17.01
12H	4H	19.43	19.91	20.26	20.75	21.74	13.21	13.69	14.04	14.52	15.51
	6H	19.99	20.38	20.84	21.23	22.23	14.16	14.55	15.00	15.40	16.40
	8H	20.24	20.58	21.09	21.43	22.49	14.61	14.95	15.46	15.79	16.85