

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: P621753

Luminaire Tested: VLT-FB-025U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621753  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-025U-075D-840-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

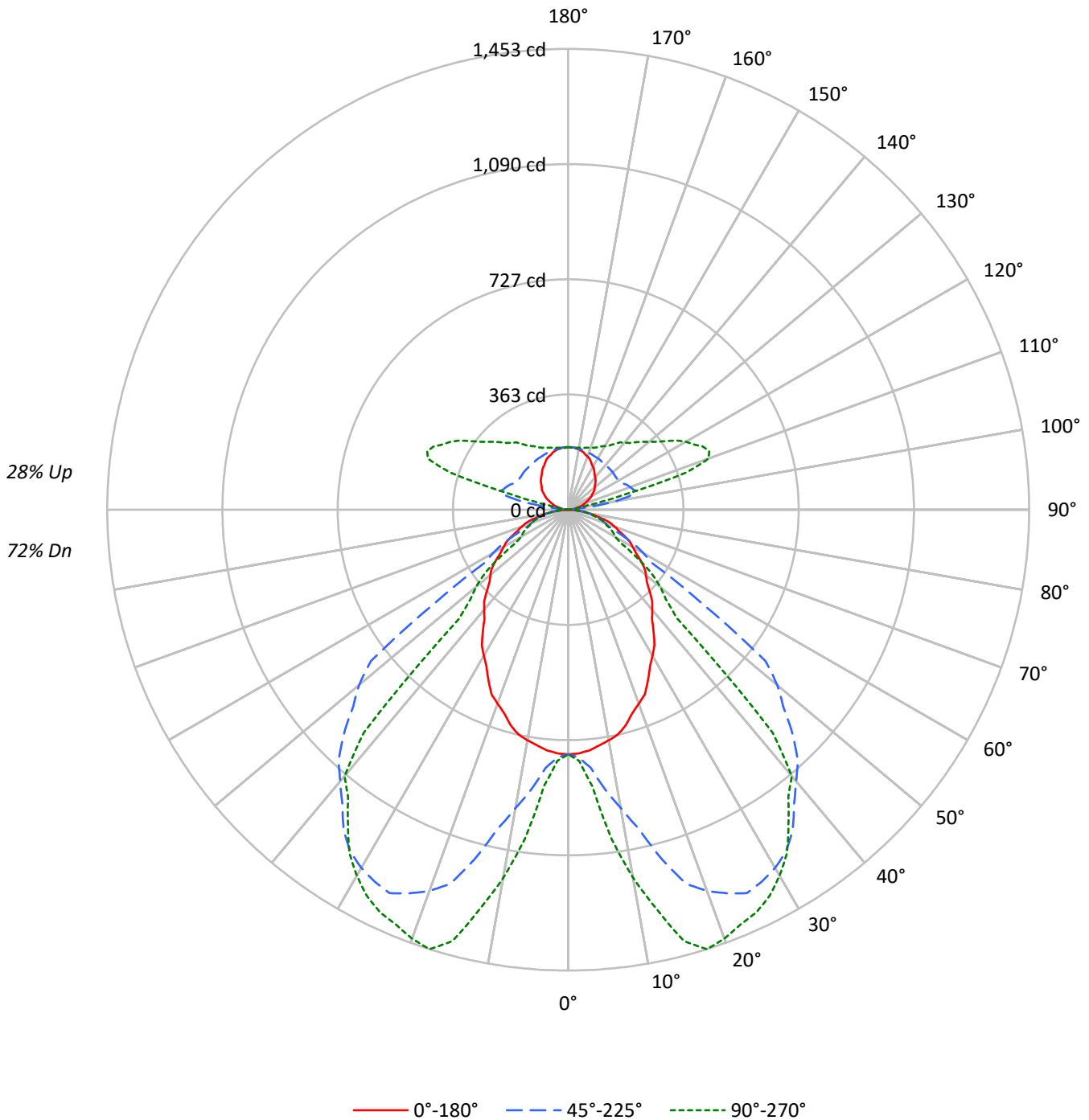
Lumens per Lamp: N/A  
Luminaire Lumens: 3822.6 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	104	100	96	92	98	95	91	88	85	83	81	77	75	73	69	68	66	63
2	95	88	82	77	90	84	79	74	76	72	68	69	65	63	62	60	57	54
3	87	78	71	65	83	75	68	63	68	63	58	61	57	54	56	52	50	47
4	80	70	62	56	76	67	60	54	61	55	51	55	51	47	50	47	44	41
5	74	63	55	49	70	60	53	47	55	49	44	50	45	41	46	42	38	36
6	69	56	48	43	65	54	47	41	50	43	39	45	40	36	41	37	34	32
7	64	51	43	38	60	49	42	37	45	39	34	41	36	32	38	34	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	31	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	52	39	32	27	49	38	31	26	35	29	25	32	27	24	30	25	22	21

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

	0°	45°	90°
0°	5535	5535	5535
5°	5488	5883	6301
10°	5380	6957	8589
15°	5217	8478	10458
20°	4968	9769	10990
25°	4704	10562	11096
30°	4403	10807	11041
35°	4106	10807	10602
40°	3862	10470	10265
45°	3675	10149	4916
50°	3570	9608	4236
55°	3472	6433	3354
60°	3374	3915	2430
65°	3301	2982	2528
70°	3256	2597	2597
75°	3172	2695	2609
80°	2785	2719	2591
85°	2067	2841	2454

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	2.2
10°-20°	306.7	8.0
20°-30°	519.4	13.6
30°-40°	630.1	16.5
40°-50°	554.6	14.5
50°-60°	343.2	9.0
60°-70°	186.1	4.9
70°-80°	106.0	2.8
80°-90°	35.1	0.9
90°-100°	24.2	0.6
100°-110°	172.6	4.5
110°-120°	234.3	6.1
120°-130°	190.7	5.0
130°-140°	153.4	4.0
140°-150°	120.9	3.2
150°-160°	88.4	2.3
160°-170°	54.9	1.4
170°-180°	18.7	0.5
0°-30°	909.3	23.8
0°-40°	1539.3	40.3
0°-60°	2437.2	63.8
0°-90°	2764.3	72.3
90°-120°	431.2	11.3
90°-150°	896.2	23.4
90°-180°	1058.0	27.7
0°-180°	3822.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	762	786	817	852	875	72
15°	702	810	1141	1350	1408	197
25°	594	813	1334	1374	1401	273
35°	469	754	1234	1216	1210	294
45°	362	620	1000	848	484	281
55°	278	432	514	297	268	248
65°	194	243	176	150	149	193
75°	114	101	97	96	94	120
85°	25	34	34	31	30	31
90°	0	1	2	4	4	1
95°	10	18	10	11	14	11
105°	38	59	224	286	190	40
115°	68	83	193	402	470	68
125°	98	111	182	318	377	87
135°	121	135	183	262	301	93
145°	144	156	185	228	253	90
155°	168	175	188	207	217	77
165°	187	190	193	198	202	53
175°	197	198	197	196	194	19
180°	197	197	197	197	197	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	768.8	777.3	781.3	788.9	792.6
5°	761.9	786.4	816.7	851.7	874.7
7.5°	749.6	793.5	889.5	999.9	1047.2
10°	738.3	798.1	954.7	1114.5	1178.8
12.5°	725.8	802.7	1031.2	1224.8	1290.5
15°	702.3	809.6	1141.2	1349.5	1407.7
17.5°	671.9	813.8	1236.5	1415.5	1452.9
20°	650.6	814.6	1279.2	1423.7	1439.1
22.5°	630.5	815.3	1309.3	1403.6	1416.5
25°	594.1	813.3	1334.0	1373.8	1401.4
27.5°	557.8	804.2	1321.8	1353.9	1373.8
30°	531.4	795.1	1304.2	1330.9	1332.5
32.5°	506.3	779.8	1277.9	1285.7	1283.6
35°	468.7	753.8	1233.7	1216.3	1210.2
37.5°	433.6	719.3	1169.1	1141.2	1139.6
40°	412.3	694.3	1117.7	1091.2	1095.8
42.5°	392.2	665.7	1071.3	1040.2	954.0
45°	362.1	619.6	1000.1	847.7	484.4
47.5°	336.1	567.2	919.6	454.1	417.0
50°	319.8	531.3	860.6	399.3	379.4
52.5°	303.5	497.8	784.1	359.0	333.0
55°	277.5	432.3	514.2	297.2	268.1
57.5°	252.7	363.4	314.1	231.0	199.4
60°	235.1	322.5	272.8	186.2	169.3
62.5°	218.8	289.0	232.6	165.1	161.8
65°	194.4	243.4	175.6	150.5	148.9
67.5°	171.5	200.0	133.9	135.4	133.9
70°	155.2	169.0	123.8	125.4	123.8
72.5°	140.1	139.2	113.8	112.8	111.3
75°	114.4	100.6	97.2	95.6	94.1
77.5°	87.5	74.3	78.4	76.8	75.2
80°	67.4	62.8	65.8	64.2	62.7
82.5°	49.8	51.4	53.3	50.4	48.9
85°	25.1	34.3	34.5	31.3	29.8
87.5°	7.5	15.1	14.3	12.0	10.8
90°	0.0	1.2	2.5	3.7	3.7
92.5°	3.0	4.2	5.5	7.7	8.7
95°	9.9	18.4	9.9	11.2	13.6
97.5°	17.6	35.3	72.9	21.5	18.6
100°	23.5	44.1	146.2	43.0	28.5
102.5°	29.5	51.1	197.8	113.6	62.2
105°	38.4	59.0	224.3	286.5	189.6
107.5°	47.3	62.8	214.1	417.0	390.5
110°	53.3	67.8	208.2	438.1	470.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	59.2	73.8	202.2	425.7	480.7
115°	68.1	82.7	193.3	401.8	469.6
117.5°	77.3	91.6	191.1	375.8	445.6
120°	84.3	97.6	187.1	356.0	428.7
122.5°	89.2	103.5	182.1	339.0	405.9
125°	97.9	111.2	182.1	318.5	376.7
127.5°	105.1	118.6	182.4	294.7	352.1
130°	109.0	123.6	183.4	278.8	333.3
132.5°	114.0	128.5	183.4	271.6	316.4
135°	121.4	134.8	183.4	262.3	301.1
137.5°	127.6	141.9	183.4	252.0	285.2
140°	132.6	145.9	183.4	246.0	276.3
142.5°	137.5	149.9	184.4	239.0	267.4
145°	143.7	155.8	184.6	228.5	252.8
147.5°	151.2	161.8	186.1	221.0	239.6
150°	156.1	165.8	187.1	216.0	231.7
152.5°	161.1	169.8	187.1	211.9	224.8
155°	168.5	174.6	188.3	207.1	216.8
157.5°	174.5	180.3	189.8	204.1	211.1
160°	178.4	183.3	190.8	202.1	208.2
162.5°	181.4	186.2	191.8	201.1	205.2
165°	187.1	189.5	193.3	198.3	202.0
167.5°	190.3	192.5	194.5	197.1	199.2
170°	193.3	194.5	194.5	197.0	198.2
172.5°	194.3	196.5	195.5	196.0	197.3
175°	197.0	198.2	197.0	195.7	194.5
177.5°	197.0	198.0	197.0	197.0	196.0
180°	197.0	197.0	197.0	197.0	197.0

(END OF REPORT)