

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: P621819

Luminaire Tested: VLT-FB-0U-050D-840-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621819  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-0U-050D-840-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

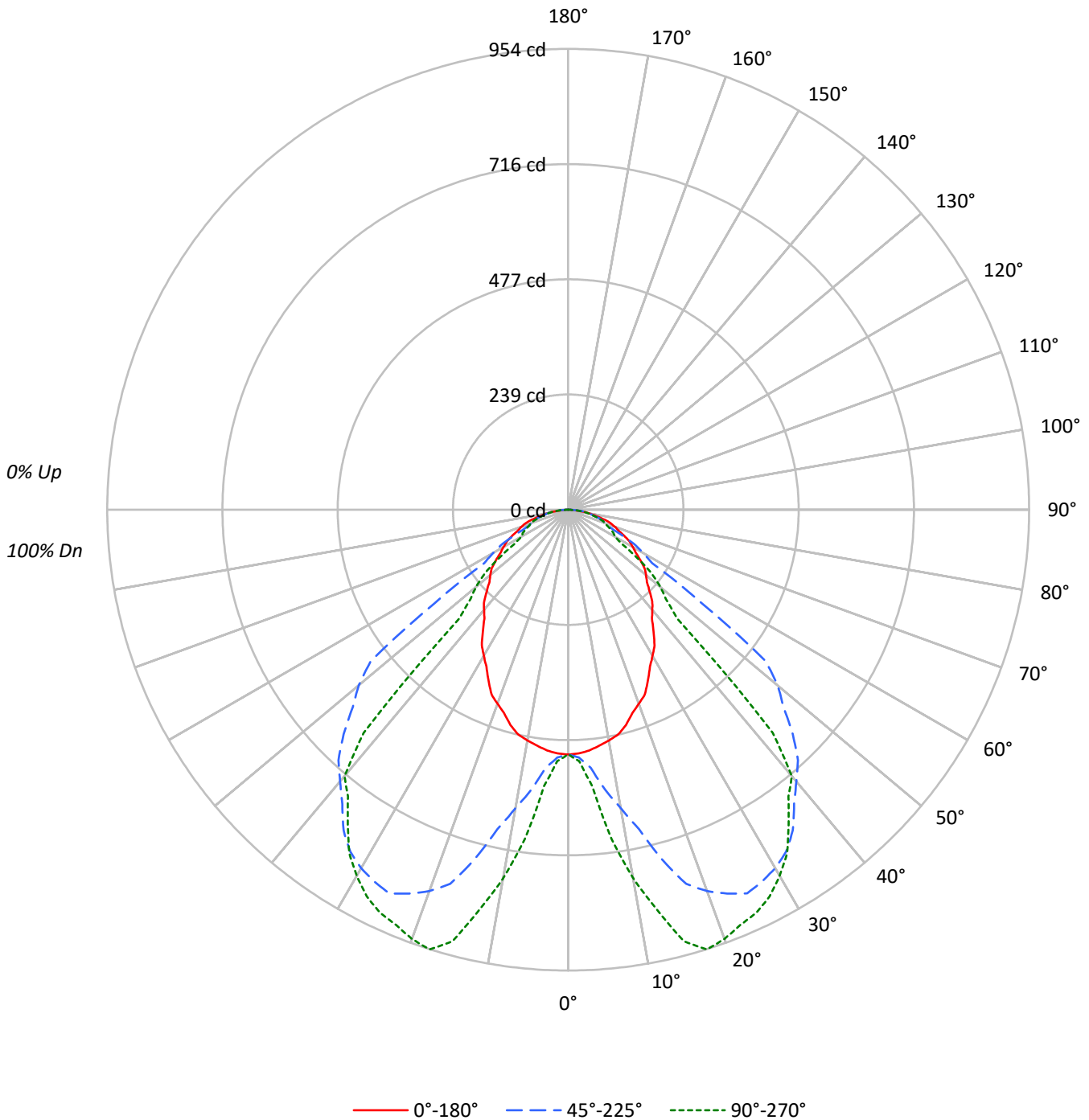
Lumens per Lamp: N/A  
Luminaire Lumens: 1815.7 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.4  
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	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65					65			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

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

	0°	45°	90°
0°	3636	3636	3636
5°	3605	3865	4139
10°	3534	4570	5643
15°	3428	5570	6870
20°	3264	6417	7220
25°	3090	6939	7290
30°	2893	7100	7253
35°	2697	7100	6964
40°	2537	6879	6743
45°	2414	6667	3229
50°	2346	6312	2782
55°	2281	4226	2203
60°	2217	2572	1596
65°	2168	1958	1661
70°	2140	1708	1708
75°	2085	1769	1713
80°	1831	1789	1703
85°	1359	1869	1614

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6667 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	3.0
10°-20°	201.5	11.1
20°-30°	341.2	18.8
30°-40°	413.9	22.8
40°-50°	364.3	20.1
50°-60°	225.5	12.4
60°-70°	122.2	6.7
70°-80°	69.6	3.8
80°-90°	22.8	1.3
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°	597.3	32.9
0°-40°	1011.2	55.7
0°-60°	1601.0	88.2
0°-90°	1815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	500	517	536	560	575	47
15°	461	532	750	886	925	129
25°	390	534	876	902	921	179
35°	308	495	810	799	795	193
45°	238	407	657	557	318	185
55°	182	284	338	195	176	163
65°	128	160	115	99	98	127
75°	75	66	64	63	62	79
85°	16	22	23	21	20	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	506.7	506.7	506.7	506.7	506.7
2.5°	505.0	510.7	513.3	518.3	520.7
5°	500.5	516.6	536.5	559.5	574.6
7.5°	492.5	521.3	584.3	656.9	687.9
10°	485.0	524.3	627.2	732.1	774.4
12.5°	476.8	527.4	677.4	804.6	847.7
15°	461.4	531.8	749.7	886.5	924.8
17.5°	441.4	534.6	812.3	929.9	954.4
20°	427.4	535.1	840.3	935.3	945.4
22.5°	414.2	535.6	860.1	922.1	930.5
25°	390.3	534.3	876.4	902.5	920.7
27.5°	366.4	528.3	868.3	889.4	902.5
30°	349.1	522.3	856.8	874.3	875.3
32.5°	332.6	512.3	839.5	844.6	843.2
35°	307.9	495.2	810.5	799.0	795.0
37.5°	284.8	472.5	768.0	749.7	748.7
40°	270.8	456.1	734.3	716.8	719.8
42.5°	257.7	437.3	703.8	683.3	626.7
45°	237.9	407.1	657.0	556.9	318.2
47.5°	220.8	372.6	604.1	298.3	273.9
50°	210.1	349.0	565.4	262.3	249.2
52.5°	199.4	327.0	515.1	235.8	218.7
55°	182.3	284.0	337.8	195.2	176.1
57.5°	166.0	238.7	206.4	151.7	131.0
60°	154.5	211.9	179.2	122.3	111.2
62.5°	143.8	189.9	152.8	108.5	106.3
65°	127.7	159.9	115.3	98.8	97.8
67.5°	112.7	131.4	87.9	89.0	87.9
70°	102.0	111.0	81.4	82.4	81.4
72.5°	92.1	91.5	74.8	74.1	73.1
75°	75.2	66.1	63.8	62.8	61.8
77.5°	57.5	48.8	51.5	50.4	49.4
80°	44.3	41.3	43.3	42.2	41.2
82.5°	32.7	33.8	35.0	33.1	32.1
85°	16.5	22.5	22.7	20.6	19.6
87.5°	4.9	9.8	9.1	7.4	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)