

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: P621757

Luminaire Tested: VLT-FB-025U-100D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621757  
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-100D-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

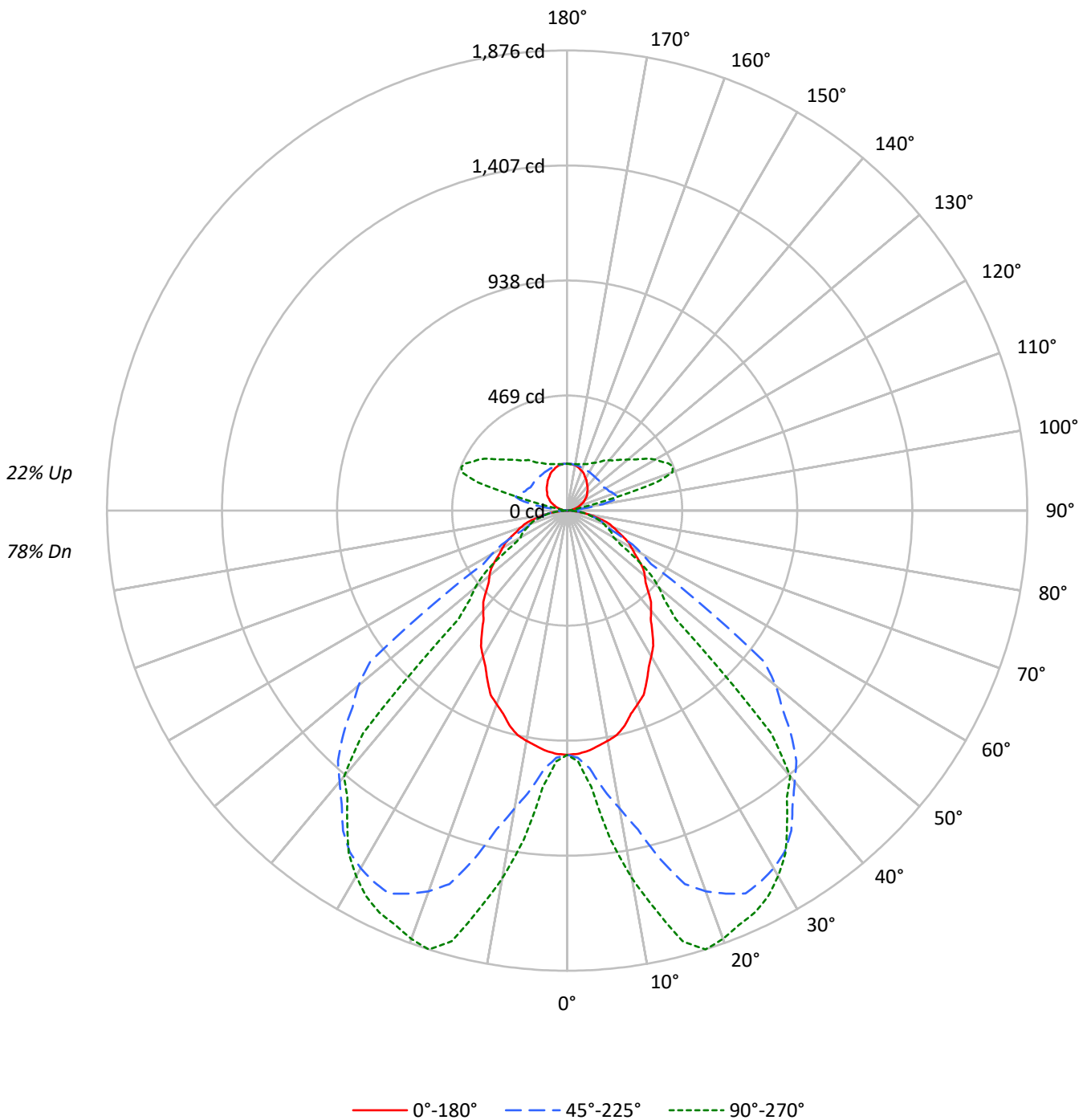
Lumens per Lamp: N/A  
Luminaire Lumens: 4595.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 37.5  
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	114	114	114	114	108	108	108	108	99	99	99		90	90	90		82	82	82	78
1	105	101	97	94	100	96	93	90	88	86	83		81	79	77		74	72	71	67
2	96	89	83	78	92	85	80	76	78	74	71		72	69	66		66	63	61	58
3	89	79	72	66	84	76	70	64	70	65	60		64	60	57		59	56	53	50
4	81	71	63	57	78	68	61	55	63	57	52		58	53	49		53	50	46	44
5	75	64	55	50	72	61	54	48	57	50	46		52	47	43		48	44	41	38
6	70	57	49	43	66	55	48	42	51	45	40		48	42	38		44	40	36	34
7	64	52	44	38	61	50	43	38	47	40	36		43	38	34		40	36	32	30
8	60	47	40	34	57	46	39	34	43	36	32		40	34	31		37	33	29	27
9	56	44	36	31	53	42	35	30	39	33	29		37	31	28		34	30	26	24
10	52	40	33	28	50	39	32	27	36	30	26		34	29	25		32	27	24	22

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

	0°	45°	90°
0°	7145	7145	7145
5°	7085	7595	8135
10°	6946	8981	11090
15°	6736	10946	13502
20°	6414	12612	14188
25°	6073	13637	14326
30°	5685	13952	14255
35°	5301	13953	13687
40°	4986	13517	13252
45°	4744	13104	6347
50°	4610	12404	5468
55°	4481	8305	4330
60°	4357	5055	3137
65°	4262	3849	3265
70°	4205	3355	3355
75°	4095	3480	3366
80°	3595	3513	3347
85°	2668	3664	3170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 13104 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	2.3
10°-20°	395.9	8.6
20°-30°	670.6	14.6
30°-40°	813.5	17.7
40°-50°	716.0	15.6
50°-60°	443.1	9.6
60°-70°	240.2	5.2
70°-80°	136.8	3.0
80°-90°	45.2	1.0
90°-100°	23.5	0.5
100°-110°	167.4	3.6
110°-120°	227.3	4.9
120°-130°	185.0	4.0
130°-140°	148.8	3.2
140°-150°	117.3	2.6
150°-160°	85.8	1.9
160°-170°	53.3	1.2
170°-180°	18.2	0.4
0°-30°	1173.9	25.5
0°-40°	1987.4	43.2
0°-60°	3146.5	68.5
0°-90°	3568.7	77.7
90°-120°	418.3	9.1
90°-150°	869.5	18.9
90°-180°	1027.0	22.3
0°-180°	4595.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	984	1015	1054	1100	1129	93
15°	907	1045	1473	1742	1817	254
25°	767	1050	1722	1774	1809	352
35°	605	973	1593	1570	1562	379
45°	468	800	1291	1094	625	363
55°	358	558	664	384	346	321
65°	251	314	227	194	192	249
75°	148	130	126	123	121	154
85°	32	44	44	40	38	39
90°	0	1	2	4	4	2
95°	10	18	10	11	13	11
105°	37	57	218	278	184	39
115°	66	80	188	390	456	66
125°	95	108	177	309	365	84
135°	118	131	178	254	292	91
145°	139	151	179	222	245	88
155°	164	169	183	201	210	75
165°	182	184	188	192	196	51
175°	191	192	191	190	189	18
180°	191	191	191	191	191	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	992.5	1003.6	1008.7	1018.5	1023.3
5°	983.6	1015.3	1054.4	1099.6	1129.3
7.5°	967.8	1024.4	1148.3	1291.0	1351.9
10°	953.2	1030.4	1232.5	1438.8	1521.9
12.5°	937.0	1036.4	1331.3	1581.3	1666.0
15°	906.7	1045.2	1473.4	1742.2	1817.4
17.5°	867.4	1050.7	1596.4	1827.4	1875.7
20°	839.9	1051.6	1651.5	1838.1	1857.9
22.5°	814.0	1052.6	1690.3	1812.1	1828.8
25°	767.0	1050.0	1722.3	1773.7	1809.3
27.5°	720.1	1038.3	1706.5	1748.0	1773.7
30°	686.1	1026.5	1683.8	1718.3	1720.3
32.5°	653.7	1006.7	1649.8	1659.9	1657.1
35°	605.1	973.2	1592.8	1570.3	1562.4
37.5°	559.8	928.7	1509.4	1473.3	1471.3
40°	532.3	896.4	1443.0	1408.7	1414.7
42.5°	506.4	859.4	1383.1	1342.9	1231.7
45°	467.5	800.0	1291.2	1094.4	625.4
47.5°	433.9	732.3	1187.2	586.2	538.3
50°	412.9	686.0	1111.1	515.5	489.8
52.5°	391.8	642.7	1012.3	463.5	429.9
55°	358.2	558.1	663.8	383.7	346.1
57.5°	326.2	469.1	405.6	298.2	257.4
60°	303.6	416.4	352.2	240.3	218.6
62.5°	282.5	373.2	300.3	213.2	208.9
65°	251.0	314.3	226.7	194.2	192.3
67.5°	221.4	258.2	172.8	174.8	172.8
70°	200.4	218.2	159.9	161.9	159.9
72.5°	180.9	179.7	146.9	145.7	143.7
75°	147.7	129.9	125.5	123.4	121.4
77.5°	112.9	95.9	101.2	99.1	97.1
80°	87.0	81.1	85.0	82.9	81.0
82.5°	64.4	66.3	68.8	65.1	63.1
85°	32.4	44.3	44.5	40.4	38.5
87.5°	9.7	19.4	18.3	15.3	13.7
90°	0.0	1.2	2.4	3.6	3.6
92.5°	2.9	4.1	5.3	7.5	8.4
95°	9.6	17.8	9.6	10.9	13.2
97.5°	17.1	34.2	70.7	20.9	18.0
100°	22.8	42.8	141.8	41.8	27.6
102.5°	28.6	49.5	191.9	110.2	60.3
105°	37.3	57.2	217.6	277.9	183.9
107.5°	45.9	61.0	207.7	404.5	378.9
110°	51.7	65.8	201.9	425.1	456.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	57.5	71.6	196.2	413.0	466.4
115°	66.1	80.2	187.5	389.8	455.6
117.5°	75.0	88.9	185.4	364.6	432.3
120°	81.7	94.7	181.5	345.4	415.9
122.5°	86.5	100.4	176.7	328.9	393.8
125°	95.0	107.9	176.7	309.0	365.4
127.5°	101.9	115.1	176.9	285.9	341.6
130°	105.8	119.9	177.9	270.5	323.4
132.5°	110.6	124.7	177.9	263.5	307.0
135°	117.8	130.7	177.9	254.5	292.1
137.5°	123.8	137.7	177.9	244.5	276.7
140°	128.6	141.6	177.9	238.7	268.1
142.5°	133.4	145.4	178.9	231.9	259.4
145°	139.4	151.2	179.1	221.7	245.2
147.5°	146.7	157.0	180.6	214.4	232.5
150°	151.5	160.9	181.5	209.5	224.8
152.5°	156.3	164.7	181.5	205.6	218.1
155°	163.5	169.4	182.7	201.0	210.4
157.5°	169.3	174.9	184.2	198.0	204.8
160°	173.1	177.8	185.1	196.1	201.9
162.5°	176.0	180.7	186.1	195.1	199.1
165°	181.5	183.9	187.5	192.4	195.9
167.5°	184.6	186.8	188.7	191.2	193.3
170°	187.5	188.7	188.7	191.2	192.3
172.5°	188.5	190.6	189.7	190.2	191.4
175°	191.1	192.3	191.1	189.9	188.7
177.5°	191.1	192.1	191.1	191.1	190.2
180°	191.1	191.1	191.1	191.1	191.1

(END OF REPORT)