

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: P621821

Luminaire Tested: VLT-FB-0U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621821
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-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1558.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

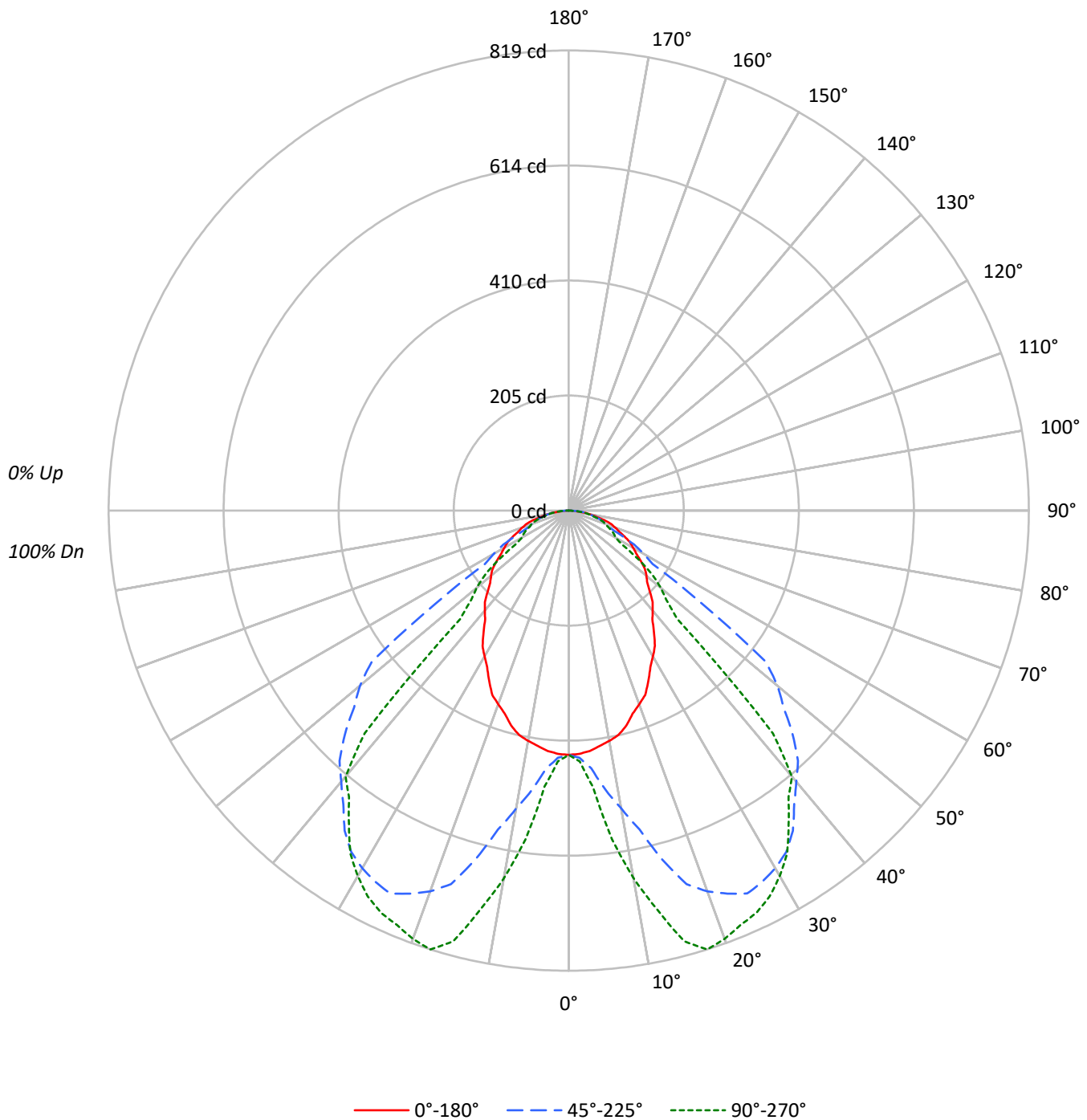
Input Watts (W): 14.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3120	3120	3120
5°	3094	3316	3552
10°	3033	3921	4842
15°	2941	4779	5895
20°	2800	5507	6195
25°	2652	5954	6255
30°	2483	6092	6224
35°	2314	6092	5976
40°	2177	5902	5786
45°	2071	5722	2770
50°	2013	5416	2387
55°	1957	3626	1890
60°	1902	2207	1369
65°	1861	1681	1425
70°	1836	1464	1464
75°	1788	1519	1469
80°	1570	1533	1459
85°	1161	1597	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.0
10°-20°	172.9	11.1
20°-30°	292.8	18.8
30°-40°	355.2	22.8
40°-50°	312.6	20.1
50°-60°	193.5	12.4
60°-70°	104.9	6.7
70°-80°	59.8	3.8
80°-90°	19.5	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°	512.5	32.9
0°-40°	867.7	55.7
0°-60°	1373.8	88.2
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	430	443	460	480	493	41
15°	396	456	643	761	794	111
25°	335	458	752	774	790	154
35°	264	425	695	686	682	166
45°	204	349	564	478	273	158
55°	156	244	290	168	151	140
65°	110	137	99	85	84	109
75°	64	57	55	54	53	67
85°	14	19	19	18	17	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.8	434.8	434.8	434.8	434.8
2.5°	433.3	438.2	440.4	444.7	446.8
5°	429.5	443.3	460.4	480.1	493.1
7.5°	422.6	447.3	501.4	563.7	590.3
10°	416.2	449.9	538.1	628.2	664.5
12.5°	409.1	452.5	581.3	690.4	727.4
15°	395.9	456.4	643.3	760.7	793.5
17.5°	378.7	458.7	697.0	797.9	819.0
20°	366.7	459.2	721.1	802.6	811.2
22.5°	355.4	459.6	738.0	791.2	798.5
25°	334.9	458.5	752.0	774.4	790.0
27.5°	314.4	453.3	745.1	763.2	774.4
30°	299.6	448.2	735.2	750.2	751.1
32.5°	285.4	439.6	720.4	724.7	723.5
35°	264.2	424.9	695.4	685.6	682.2
37.5°	244.4	405.5	659.0	643.3	642.4
40°	232.4	391.4	630.0	615.1	617.7
42.5°	221.1	375.2	603.9	586.3	537.8
45°	204.1	349.3	563.8	477.8	273.0
47.5°	189.5	319.7	518.4	256.0	235.1
50°	180.3	299.5	485.1	225.1	213.8
52.5°	171.1	280.6	442.0	202.4	187.7
55°	156.4	243.7	289.8	167.5	151.1
57.5°	142.4	204.8	177.1	130.2	112.4
60°	132.5	181.8	153.8	104.9	95.4
62.5°	123.4	162.9	131.1	93.1	91.2
65°	109.6	137.2	99.0	84.8	83.9
67.5°	96.7	112.7	75.5	76.3	75.5
70°	87.5	95.3	69.8	70.7	69.8
72.5°	79.0	78.5	64.2	63.6	62.7
75°	64.5	56.7	54.8	53.9	53.0
77.5°	49.3	41.9	44.2	43.3	42.4
80°	38.0	35.4	37.1	36.2	35.3
82.5°	28.1	29.0	30.0	28.4	27.6
85°	14.1	19.3	19.4	17.7	16.8
87.5°	4.2	8.4	7.8	6.3	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)