

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: P621822

Luminaire Tested: VLT-FB-0U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621822
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-940-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

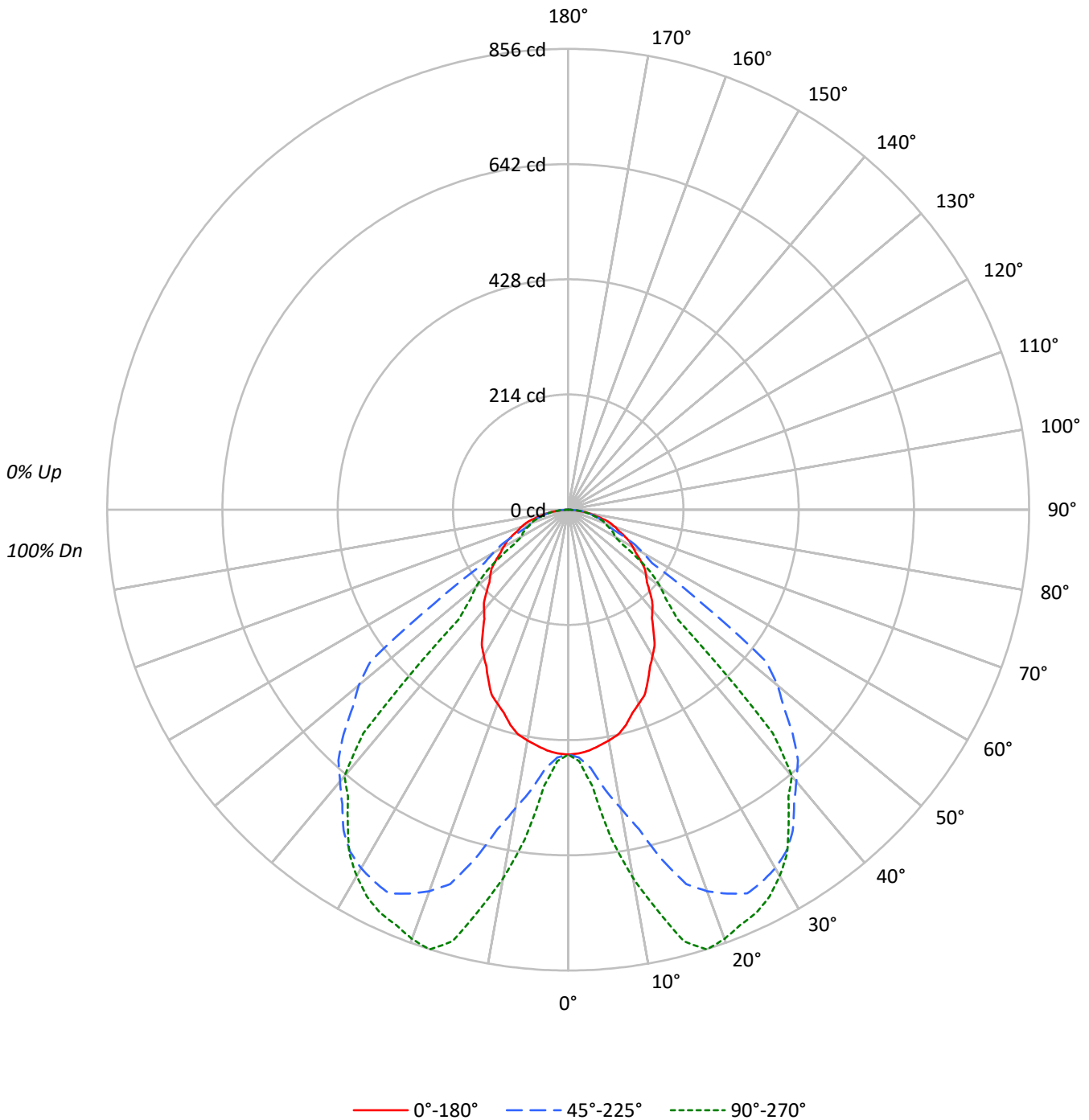
Lumens per Lamp: N/A
Luminaire Lumens: 1629.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3263	3263	3263
5°	3235	3468	3715
10°	3172	4101	5064
15°	3076	4998	6165
20°	2929	5759	6479
25°	2774	6227	6542
30°	2596	6371	6509
35°	2420	6371	6250
40°	2277	6172	6051
45°	2167	5983	2898
50°	2104	5665	2496
55°	2047	3792	1977
60°	1989	2308	1432
65°	1946	1757	1491
70°	1920	1532	1532
75°	1871	1589	1539
80°	1641	1603	1529
85°	1219	1671	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.0
10°-20°	180.8	11.1
20°-30°	306.2	18.8
30°-40°	371.5	22.8
40°-50°	327.0	20.1
50°-60°	202.3	12.4
60°-70°	109.7	6.7
70°-80°	62.5	3.8
80°-90°	20.4	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°	536.0	32.9
0°-40°	907.5	55.7
0°-60°	1436.8	88.2
0°-90°	1629.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	449	464	482	502	516	42
15°	414	477	673	796	830	116
25°	350	480	786	810	826	161
35°	276	444	727	717	714	173
45°	214	365	590	500	286	166
55°	164	255	303	175	158	146
65°	115	144	104	89	88	114
75°	68	59	57	56	56	70
85°	15	20	20	18	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.7	454.7	454.7	454.7	454.7
2.5°	453.2	458.3	460.6	465.1	467.3
5°	449.1	463.6	481.5	502.1	515.7
7.5°	441.9	467.8	524.4	589.5	617.3
10°	435.3	470.5	562.8	657.0	695.0
12.5°	427.9	473.3	607.9	722.1	760.8
15°	414.0	477.3	672.8	795.6	829.9
17.5°	396.1	479.8	729.0	834.5	856.5
20°	383.5	480.2	754.1	839.4	848.4
22.5°	371.7	480.7	771.9	827.5	835.1
25°	350.3	479.5	786.5	809.9	826.2
27.5°	328.8	474.1	779.3	798.2	809.9
30°	313.3	468.7	768.9	784.6	785.5
32.5°	298.5	459.7	753.4	758.0	756.7
35°	276.3	444.4	727.3	717.1	713.5
37.5°	255.6	424.1	689.2	672.8	671.9
40°	243.1	409.3	658.9	643.3	646.0
42.5°	231.2	392.4	631.6	613.2	562.4
45°	213.5	365.3	589.6	499.7	285.6
47.5°	198.1	334.4	542.1	267.7	245.8
50°	188.5	313.2	507.4	235.4	223.6
52.5°	178.9	293.5	462.3	211.7	196.3
55°	163.6	254.8	303.1	175.2	158.0
57.5°	149.0	214.2	185.2	136.2	117.6
60°	138.6	190.1	160.8	109.8	99.8
62.5°	129.0	170.4	137.1	97.4	95.4
65°	114.6	143.5	103.5	88.7	87.8
67.5°	101.1	117.9	78.9	79.8	78.9
70°	91.5	99.6	73.0	73.9	73.0
72.5°	82.6	82.1	67.1	66.5	65.6
75°	67.5	59.3	57.3	56.4	55.5
77.5°	51.6	43.8	46.2	45.3	44.4
80°	39.7	37.0	38.8	37.9	37.0
82.5°	29.4	30.3	31.4	29.7	28.8
85°	14.8	20.2	20.3	18.5	17.6
87.5°	4.4	8.8	8.1	6.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)