

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: P621820

Luminaire Tested: VLT-FB-0U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621820
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-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

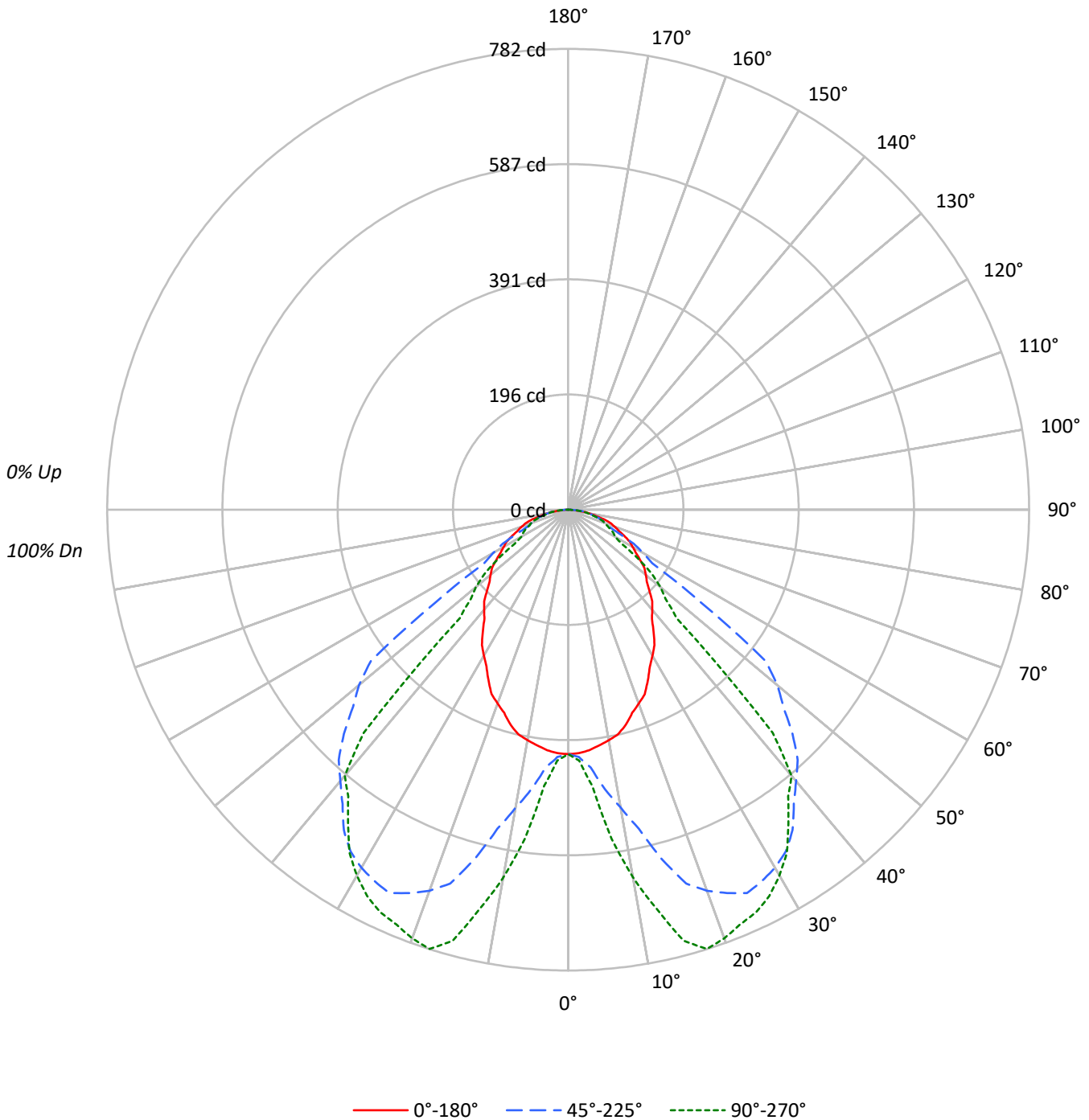
Lumens per Lamp: N/A
Luminaire Lumens: 1486.6 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.4
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	2977	2977	2977
5°	2952	3164	3389
10°	2894	3742	4620
15°	2806	4560	5625
20°	2672	5254	5911
25°	2531	5682	5968
30°	2368	5813	5939
35°	2208	5813	5702
40°	2078	5632	5521
45°	1977	5460	2644
50°	1920	5168	2279
55°	1867	3461	1804
60°	1816	2105	1307
65°	1776	1603	1360
70°	1752	1397	1397
75°	1708	1450	1403
80°	1500	1463	1393
85°	1112	1531	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5460 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	3.0
10°-20°	165.0	11.1
20°-30°	279.4	18.8
30°-40°	338.9	22.8
40°-50°	298.3	20.1
50°-60°	184.6	12.4
60°-70°	100.1	6.7
70°-80°	57.0	3.8
80°-90°	18.6	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°	489.1	32.9
0°-40°	828.0	55.7
0°-60°	1310.9	88.2
0°-90°	1486.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	410	423	439	458	470	39
15°	378	436	614	726	757	106
25°	320	438	718	739	754	147
35°	252	406	664	654	651	158
45°	195	333	538	456	260	151
55°	149	232	277	160	144	134
65°	105	131	94	81	80	104
75°	62	54	52	51	51	64
85°	14	18	19	17	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	413.5	418.1	420.2	424.3	426.3
5°	409.8	423.0	439.3	458.1	470.5
7.5°	403.2	426.8	478.4	537.9	563.3
10°	397.1	429.3	513.5	599.5	634.1
12.5°	390.4	431.8	554.7	658.8	694.1
15°	377.7	435.5	613.8	725.9	757.2
17.5°	361.4	437.7	665.1	761.4	781.5
20°	349.9	438.1	688.0	765.8	774.0
22.5°	339.1	438.6	704.2	755.0	761.9
25°	319.6	437.5	717.6	739.0	753.8
27.5°	300.0	432.6	711.0	728.3	739.0
30°	285.8	427.6	701.5	715.9	716.7
32.5°	272.4	419.4	687.4	691.6	690.4
35°	252.1	405.5	663.6	654.2	650.9
37.5°	233.2	386.9	628.9	613.8	613.0
40°	221.8	373.5	601.2	586.9	589.4
42.5°	211.0	358.0	576.2	559.5	513.2
45°	194.8	333.3	538.0	455.9	260.5
47.5°	180.8	305.1	494.6	244.2	224.3
50°	172.0	285.8	462.9	214.8	204.1
52.5°	163.2	267.8	421.8	193.1	179.1
55°	149.2	232.5	276.6	159.9	144.2
57.5°	135.9	195.4	169.0	124.2	107.3
60°	126.5	173.5	146.7	100.1	91.1
62.5°	117.7	155.5	125.1	88.8	87.0
65°	104.6	130.9	94.4	80.9	80.1
67.5°	92.2	107.6	72.0	72.8	72.0
70°	83.5	90.9	66.6	67.4	66.6
72.5°	75.4	74.9	61.2	60.7	59.9
75°	61.6	54.1	52.3	51.4	50.6
77.5°	47.0	40.0	42.2	41.3	40.5
80°	36.3	33.8	35.4	34.6	33.7
82.5°	26.8	27.6	28.7	27.1	26.3
85°	13.5	18.4	18.6	16.8	16.0
87.5°	4.0	8.0	7.4	6.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)