

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: P621818

Luminaire Tested: VLT-FB-0U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621818
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-835-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

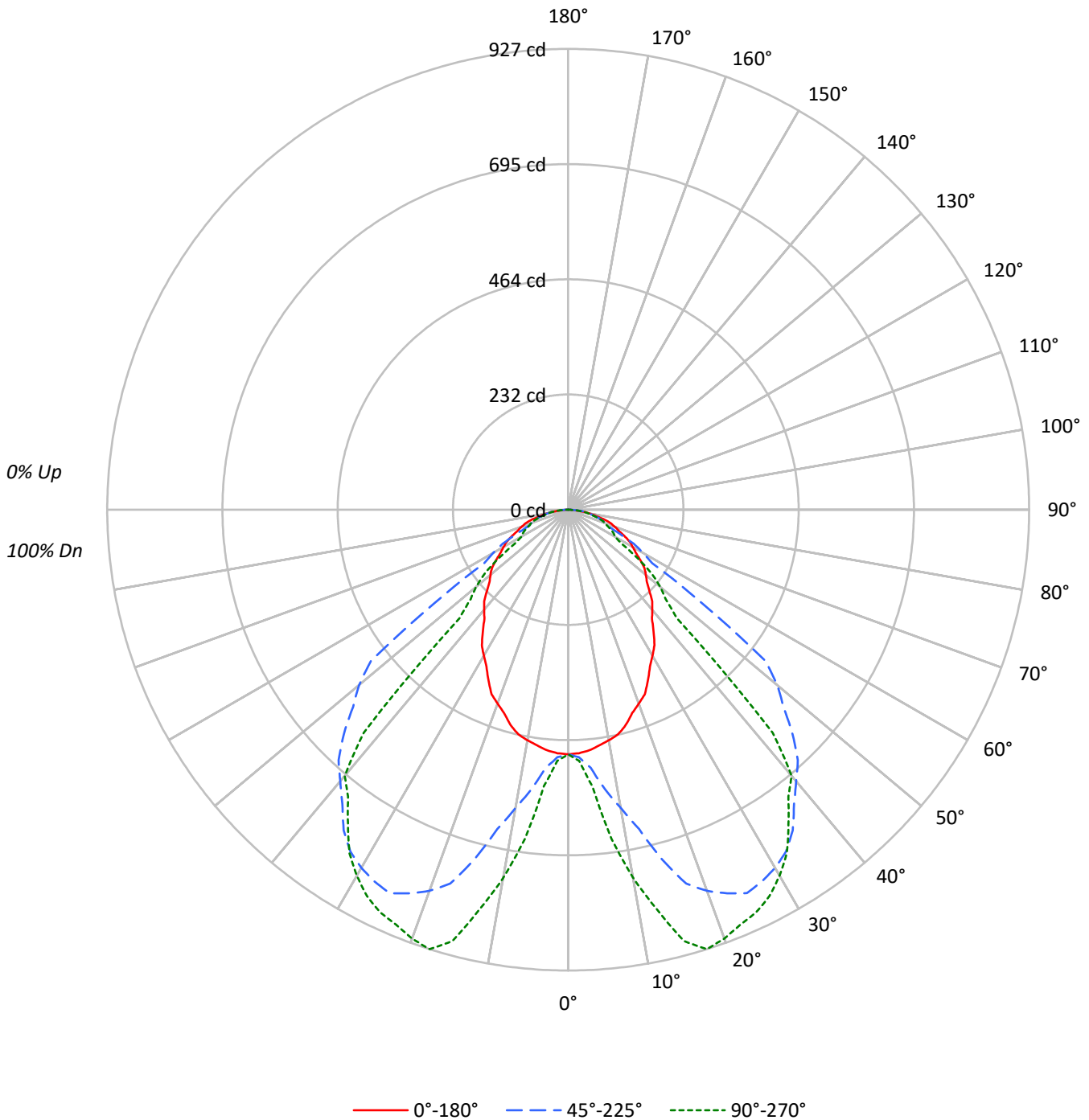
Lumens per Lamp: N/A
Luminaire Lumens: 1763.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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									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°	3531	3531	3531
5°	3501	3753	4019
10°	3432	4438	5480
15°	3328	5408	6671
20°	3169	6231	7010
25°	3001	6738	7078
30°	2809	6894	7043
35°	2619	6894	6763
40°	2464	6679	6548
45°	2344	6475	3136
50°	2277	6129	2702
55°	2214	4104	2139
60°	2153	2497	1550
65°	2105	1902	1613
70°	2077	1658	1658
75°	2024	1719	1664
80°	1777	1736	1653
85°	1317	1811	1564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.0
10°-20°	195.6	11.1
20°-30°	331.3	18.8
30°-40°	402.0	22.8
40°-50°	353.8	20.1
50°-60°	218.9	12.4
60°-70°	118.7	6.7
70°-80°	67.6	3.8
80°-90°	22.1	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°	580.0	32.9
0°-40°	982.0	55.7
0°-60°	1554.7	88.2
0°-90°	1763.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	486	502	521	543	558	46
15°	448	516	728	861	898	125
25°	379	519	851	876	894	174
35°	299	481	787	776	772	187
45°	231	395	638	541	309	179
55°	177	276	328	190	171	158
65°	124	155	112	96	95	123
75°	73	64	62	61	60	76
85°	16	22	22	20	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.0	492.0	492.0	492.0	492.0
2.5°	490.4	495.9	498.4	503.3	505.6
5°	486.0	501.6	521.0	543.3	558.0
7.5°	478.2	506.2	567.4	637.9	668.0
10°	471.0	509.1	609.0	710.9	752.0
12.5°	463.0	512.1	657.8	781.4	823.2
15°	448.0	516.4	728.0	860.8	898.0
17.5°	428.6	519.1	788.8	902.9	926.8
20°	415.0	519.6	816.0	908.2	918.0
22.5°	402.2	520.1	835.2	895.4	903.6
25°	379.0	518.8	851.0	876.4	894.0
27.5°	355.8	513.0	843.2	863.7	876.4
30°	339.0	507.2	832.0	849.0	850.0
32.5°	323.0	497.4	815.2	820.2	818.8
35°	299.0	480.9	787.0	775.9	772.0
37.5°	276.6	458.9	745.8	728.0	727.0
40°	263.0	442.9	713.0	696.1	699.0
42.5°	250.2	424.6	683.4	663.6	608.6
45°	231.0	395.3	638.0	540.7	309.0
47.5°	214.4	361.8	586.6	289.7	266.0
50°	204.0	338.9	549.0	254.7	242.0
52.5°	193.6	317.6	500.2	229.0	212.4
55°	177.0	275.8	328.0	189.6	171.0
57.5°	161.2	231.8	200.4	147.3	127.2
60°	150.0	205.7	174.0	118.8	108.0
62.5°	139.6	184.4	148.4	105.4	103.2
65°	124.0	155.3	112.0	96.0	95.0
67.5°	109.4	127.6	85.4	86.4	85.4
70°	99.0	107.8	79.0	80.0	79.0
72.5°	89.4	88.8	72.6	72.0	71.0
75°	73.0	64.2	62.0	61.0	60.0
77.5°	55.8	47.4	50.0	49.0	48.0
80°	43.0	40.1	42.0	41.0	40.0
82.5°	31.8	32.8	34.0	32.2	31.2
85°	16.0	21.9	22.0	20.0	19.0
87.5°	4.8	9.5	8.8	7.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)