

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: P621825

Luminaire Tested: VLT-FB-0U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621825
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-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

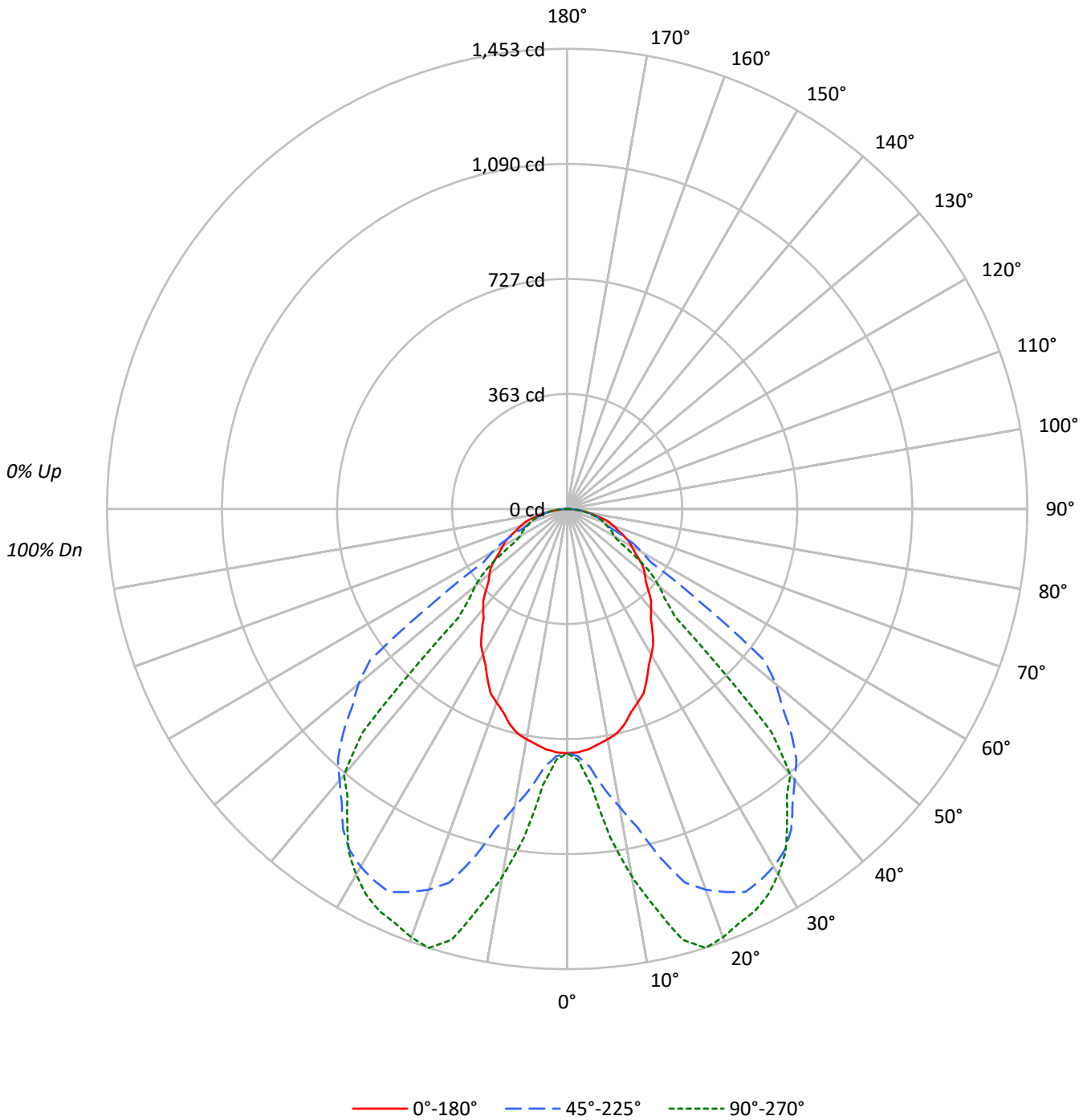
Lumens per Lamp: N/A
Luminaire Lumens: 2763.9 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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																		
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	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°	5535	5535	5535
5°	5488	5883	6301
10°	5380	6957	8589
15°	5217	8478	10458
20°	4968	9769	10990
25°	4704	10562	11096
30°	4403	10807	11041
35°	4106	10807	10602
40°	3862	10470	10265
45°	3675	10149	4916
50°	3570	9608	4236
55°	3472	6433	3354
60°	3374	3915	2430
65°	3301	2982	2528
70°	3256	2597	2597
75°	3172	2695	2609
80°	2785	2719	2591
85°	2067	2841	2454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.0
10°-20°	306.7	11.1
20°-30°	519.4	18.8
30°-40°	630.1	22.8
40°-50°	554.6	20.1
50°-60°	343.2	12.4
60°-70°	186.1	6.7
70°-80°	106.0	3.8
80°-90°	34.7	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°	909.3	32.9
0°-40°	1539.3	55.7
0°-60°	2437.2	88.2
0°-90°	2763.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	762	786	817	852	875	72
15°	702	810	1141	1350	1408	197
25°	594	813	1334	1374	1401	273
35°	469	754	1234	1216	1210	294
45°	362	620	1000	848	484	281
55°	278	432	514	297	268	248
65°	194	243	176	150	149	193
75°	114	101	97	96	94	120
85°	25	34	34	31	30	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	768.8	777.3	781.3	788.9	792.6
5°	761.9	786.4	816.7	851.7	874.7
7.5°	749.6	793.5	889.5	999.9	1047.2
10°	738.3	798.1	954.7	1114.5	1178.8
12.5°	725.8	802.7	1031.2	1224.8	1290.5
15°	702.3	809.6	1141.2	1349.5	1407.7
17.5°	671.9	813.8	1236.5	1415.5	1452.9
20°	650.6	814.6	1279.2	1423.7	1439.1
22.5°	630.5	815.3	1309.3	1403.6	1416.5
25°	594.1	813.3	1334.0	1373.8	1401.4
27.5°	557.8	804.2	1321.8	1353.9	1373.8
30°	531.4	795.1	1304.2	1330.9	1332.5
32.5°	506.3	779.8	1277.9	1285.7	1283.6
35°	468.7	753.8	1233.7	1216.3	1210.2
37.5°	433.6	719.3	1169.1	1141.2	1139.6
40°	412.3	694.3	1117.7	1091.2	1095.8
42.5°	392.2	665.7	1071.3	1040.2	954.0
45°	362.1	619.6	1000.1	847.7	484.4
47.5°	336.1	567.2	919.6	454.1	417.0
50°	319.8	531.3	860.6	399.3	379.4
52.5°	303.5	497.8	784.1	359.0	333.0
55°	277.5	432.3	514.2	297.2	268.1
57.5°	252.7	363.4	314.1	231.0	199.4
60°	235.1	322.5	272.8	186.2	169.3
62.5°	218.8	289.0	232.6	165.1	161.8
65°	194.4	243.4	175.6	150.5	148.9
67.5°	171.5	200.0	133.9	135.4	133.9
70°	155.2	169.0	123.8	125.4	123.8
72.5°	140.1	139.2	113.8	112.8	111.3
75°	114.4	100.6	97.2	95.6	94.1
77.5°	87.5	74.3	78.4	76.8	75.2
80°	67.4	62.8	65.8	64.2	62.7
82.5°	49.8	51.4	53.3	50.4	48.9
85°	25.1	34.3	34.5	31.3	29.8
87.5°	7.5	14.9	13.8	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)