

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P571710

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-30 F4X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P571710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-02-D010 FEU4C-X-90-30 F4X-W-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

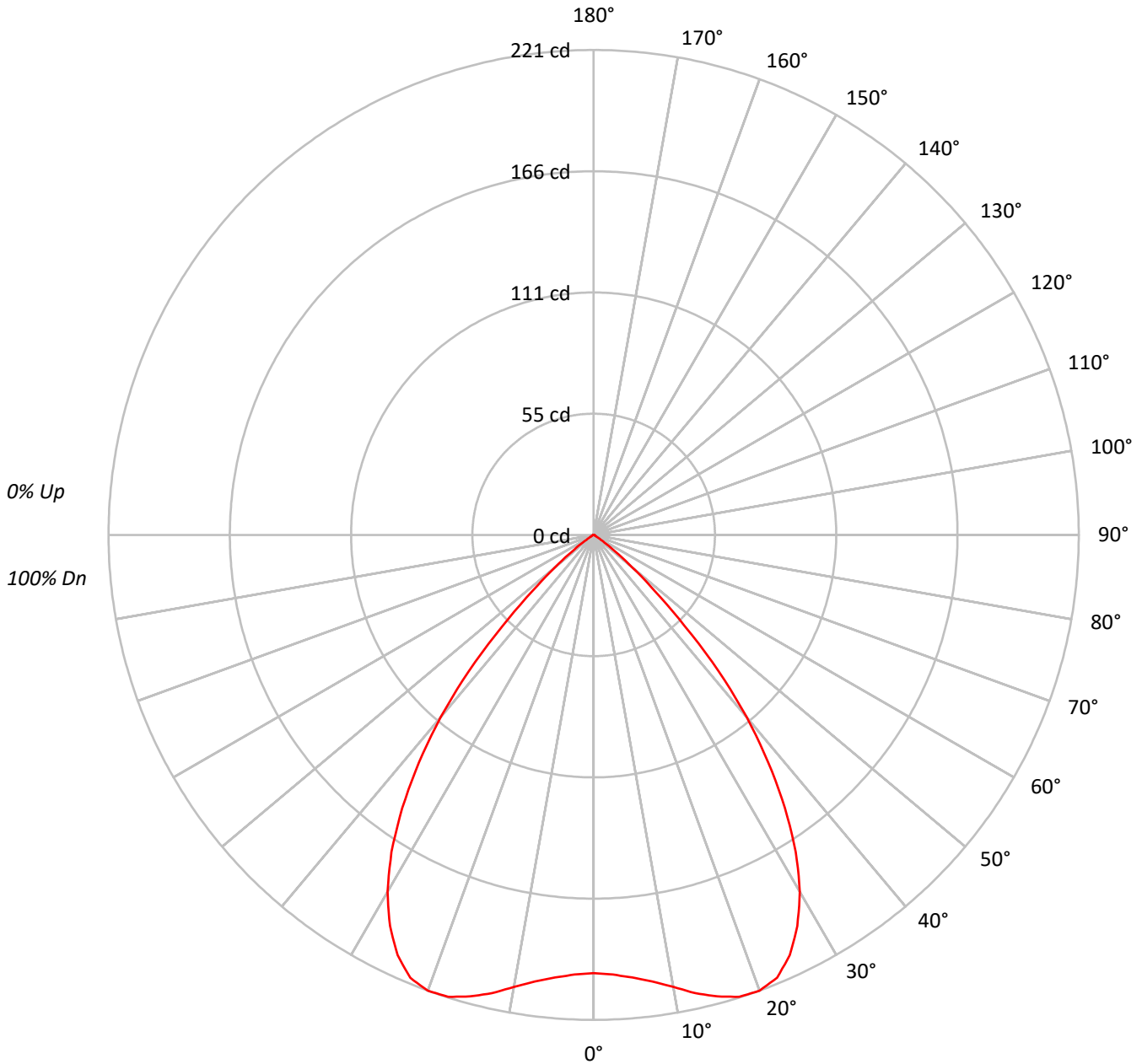
Lumens per Lamp: N/A  
Luminaire Lumens: 326.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	24534
5°	24961
10°	26085
15°	27689
20°	28893
25°	28643
30°	26641
35°	22796
40°	17368
45°	10181
50°	4358
55°	1285
60°	369
65°	203
70°	144
75°	190
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.5	6.0
10°-20°	61.6	18.9
20°-30°	96.2	29.5
30°-40°	93.6	28.7
40°-50°	46.7	14.3
50°-60°	7.2	2.2
60°-70°	0.8	0.3
70°-80°	0.3	0.1
80°-90°	0.0	0.0
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°	177.3	54.4
0°-40°	270.9	83.1
0°-60°	324.9	99.7
0°-90°	326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	200	
5°	202	20
15°	218	62
25°	211	96
35°	152	94
45°	59	47
55°	6	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	199.7
2.5°	200.5
5°	202.4
7.5°	205.3
10°	209.1
12.5°	213.9
15°	217.7
17.5°	220.7
20°	221.0
22.5°	218.4
25°	211.3
27.5°	200.9
30°	187.8
32.5°	171.4
35°	152.0
37.5°	130.7
40°	108.3
42.5°	84.4
45°	58.6
47.5°	37.7
50°	22.8
52.5°	12.3
55°	6.0
57.5°	2.6
60°	1.5
62.5°	1.1
65°	0.7
67.5°	0.7
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)