

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: P572106

Luminaire Tested: **FLD4C-08-D010 FEU4C-X-90-35 F4X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572106  
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-08-D010 FEU4C-X-90-35 F4X-W-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

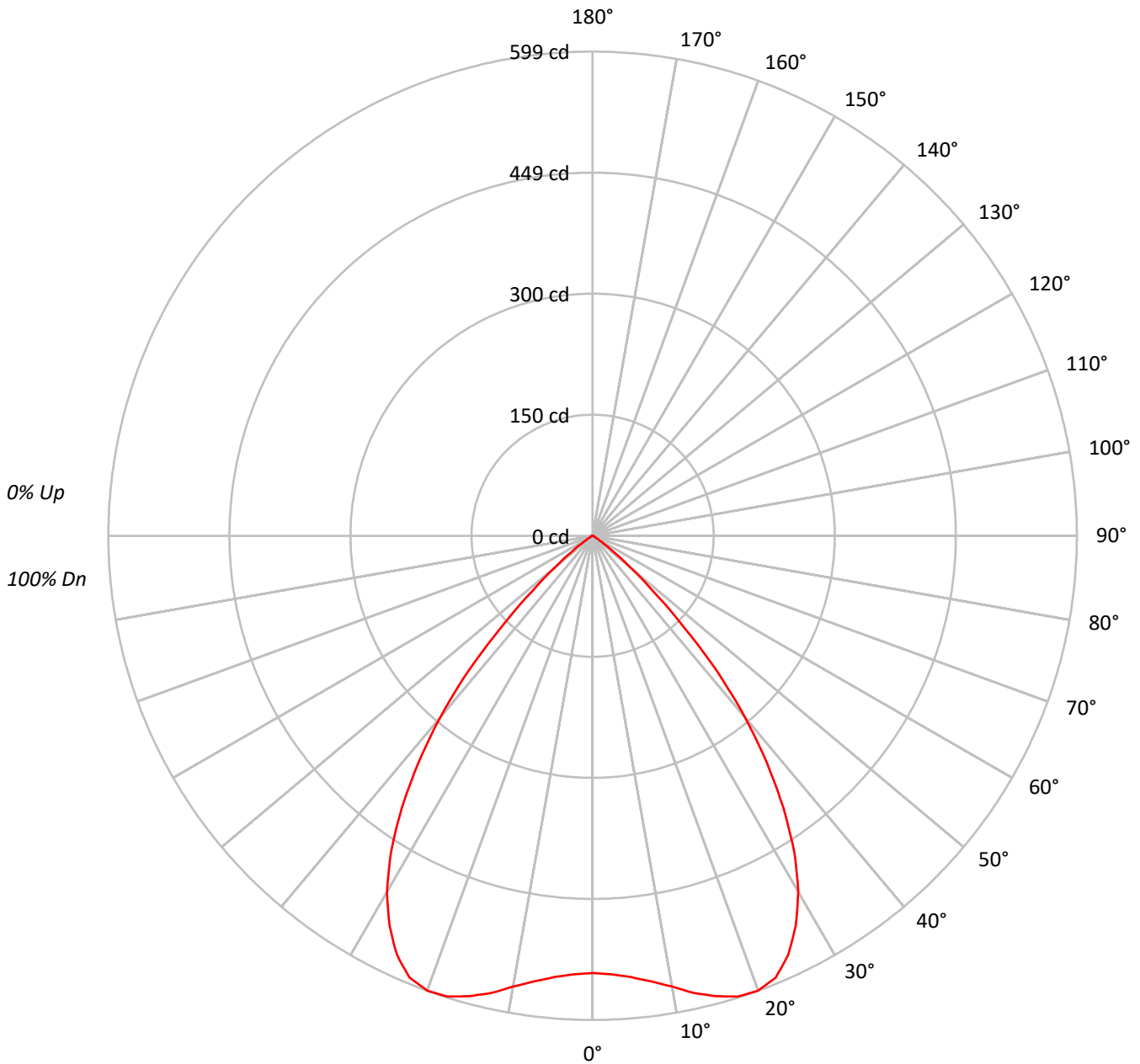
Lumens per Lamp: N/A  
Luminaire Lumens: 883.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.87  
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																	
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																																				
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77																																				
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70																																				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																																				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58																																				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54																																				
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49																																				
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																																				
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																																				

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

	0°
0°	66464
5°	67593
10°	70645
15°	74990
20°	78273
25°	77591
30°	72164
35°	61730
40°	47038
45°	27590
50°	11792
55°	3470
60°	1007
65°	581
70°	359
75°	475
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	6.0
10°-20°	167.0	18.9
20°-30°	260.5	29.5
30°-40°	253.4	28.7
40°-50°	126.6	14.3
50°-60°	19.6	2.2
60°-70°	2.4	0.3
70°-80°	0.7	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°	480.3	54.4
0°-40°	733.8	83.1
0°-60°	880.0	99.7
0°-90°	883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	541	
5°	548	53
15°	590	167
25°	572	260
35°	412	253
45°	159	127
55°	16	20
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	541.0
2.5°	543.0
5°	548.1
7.5°	556.2
10°	566.3
12.5°	579.4
15°	589.6
17.5°	597.7
20°	598.7
22.5°	591.6
25°	572.4
27.5°	544.0
30°	508.7
32.5°	464.2
35°	411.6
37.5°	353.9
40°	293.3
42.5°	228.6
45°	158.8
47.5°	102.1
50°	61.7
52.5°	33.4
55°	16.2
57.5°	7.1
60°	4.1
62.5°	3.0
65°	2.0
67.5°	2.0
70°	1.0
72.5°	1.0
75°	1.0
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)