

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: P572388

Luminaire Tested: **FLD4C-15-D010 FEU4C-X-90-27 F4X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-15-D010 FEU4C-X-90-27 F4X-W-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

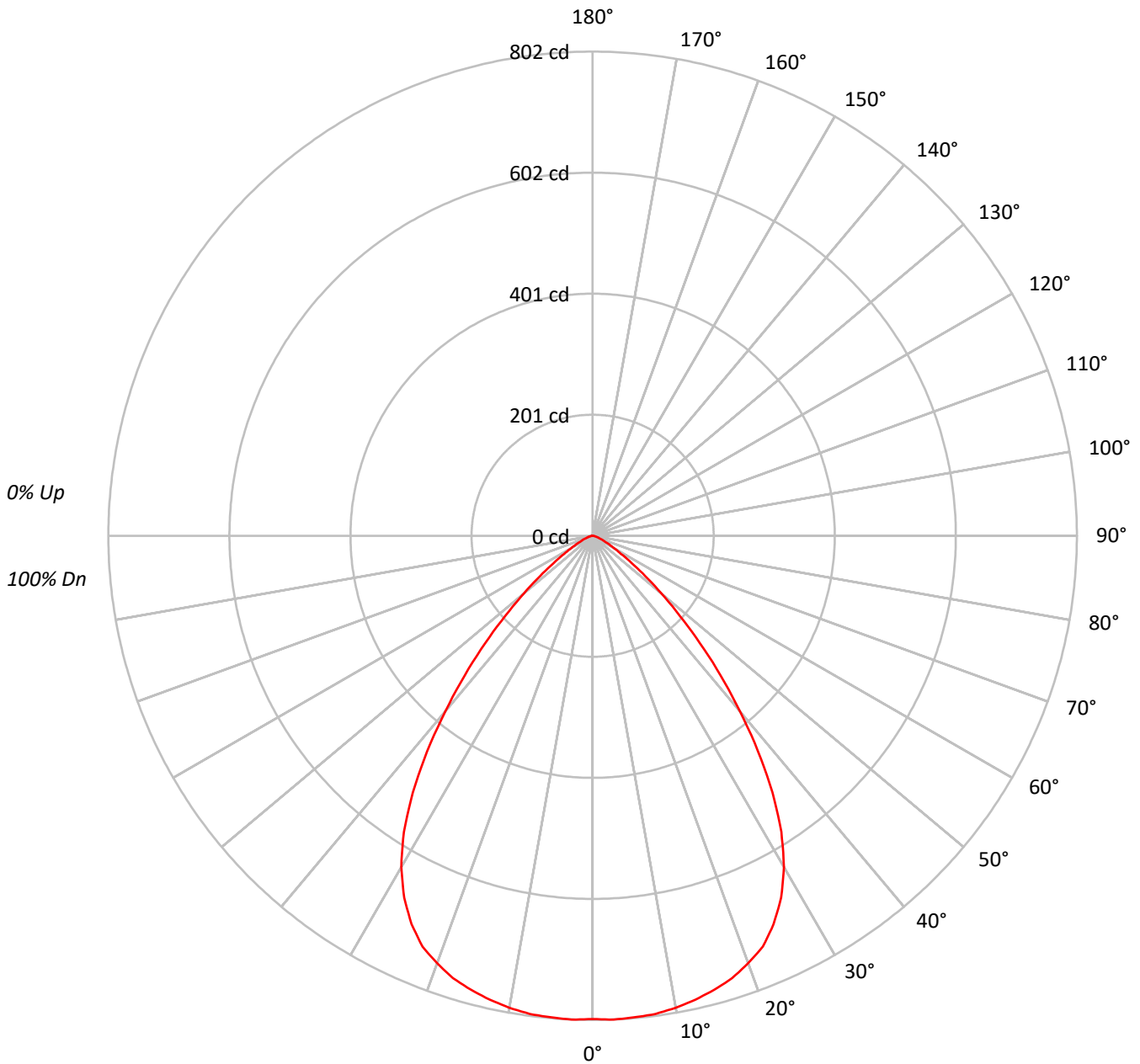
Lumens per Lamp: N/A  
Luminaire Lumens: 1242.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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									
RC	80									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																			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																			

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

	0°
0°	98344
5°	98720
10°	99026
15°	99028
20°	98485
25°	96175
30°	89896
35°	77838
40°	60814
45°	43626
50°	28344
55°	16964
60°	9927
65°	6366
70°	4239
75°	3180
80°	2405
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	6.1
10°-20°	219.7	17.7
20°-30°	324.1	26.1
30°-40°	319.9	25.8
40°-50°	195.8	15.8
50°-60°	75.1	6.0
60°-70°	23.5	1.9
70°-80°	6.9	0.6
80°-90°	0.9	0.1
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°	620.0	49.9
0°-40°	939.9	75.7
0°-60°	1210.8	97.5
0°-90°	1242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	800	
5°	800	76
15°	779	220
25°	710	324
35°	519	320
45°	251	196
55°	79	75
65°	22	23
75°	7	7
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	800.5
2.5°	802.2
5°	800.5
7.5°	798.9
10°	793.8
12.5°	787.0
15°	778.6
17.5°	768.5
20°	753.3
22.5°	736.5
25°	709.5
27.5°	675.8
30°	633.7
32.5°	581.5
35°	519.0
37.5°	450.0
40°	379.2
42.5°	313.5
45°	251.1
47.5°	195.5
50°	148.3
52.5°	109.6
55°	79.2
57.5°	55.6
60°	40.4
62.5°	30.4
65°	21.9
67.5°	16.9
70°	11.8
72.5°	8.4
75°	6.7
77.5°	3.4
80°	3.4
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)