

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: P572742

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-N-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-25-D010 FEU4C-X-90-27 F4X-N-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

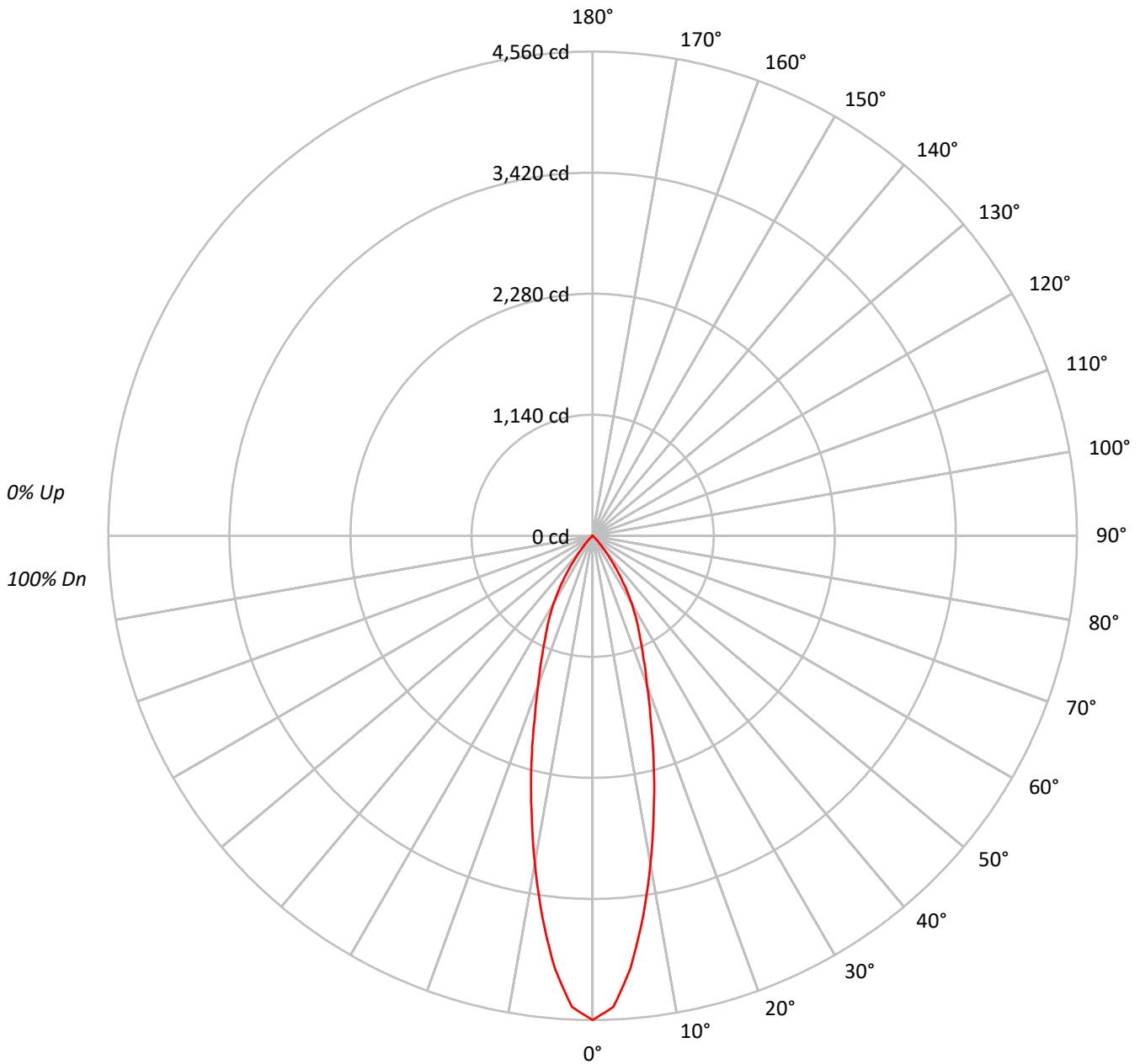
Lumens per Lamp: N/A  
Luminaire Lumens: 1772.0 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V): NR  
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: 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									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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																											
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90																											
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																											
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81																											
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77																											
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73																											
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69																											
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																											
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63																											
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61																											

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

	0°
0°	560224
5°	504143
10°	390825
15°	282877
20°	195872
25°	142792
30°	103756
35°	61400
40°	25820
45°	8044
50°	1051
55°	578
60°	663
65°	785
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.4	20.3
10°-20°	615.2	34.7
20°-30°	489.0	27.6
30°-40°	258.8	14.6
40°-50°	44.6	2.5
50°-60°	3.3	0.2
60°-70°	1.7	0.1
70°-80°	0.0	0.0
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°	1463.6	82.6
0°-40°	1722.4	97.2
0°-60°	1770.3	99.9
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4560	
5°	4088	359
15°	2224	615
25°	1053	489
35°	409	259
45°	46	45
55°	3	3
65°	3	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4560.1
2.5°	4442.7
5°	4088.0
7.5°	3624.1
10°	3132.9
12.5°	2658.0
15°	2224.1
17.5°	1820.2
20°	1498.2
22.5°	1252.6
25°	1053.4
27.5°	892.4
30°	731.4
32.5°	567.6
35°	409.4
37.5°	270.2
40°	161.0
42.5°	92.8
45°	46.3
47.5°	16.4
50°	5.5
52.5°	5.5
55°	2.7
57.5°	2.7
60°	2.7
62.5°	2.7
65°	2.7
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)