

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: P572220

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-30 F4X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-10-D010 FEU4C-X-90-30 F4X-M-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

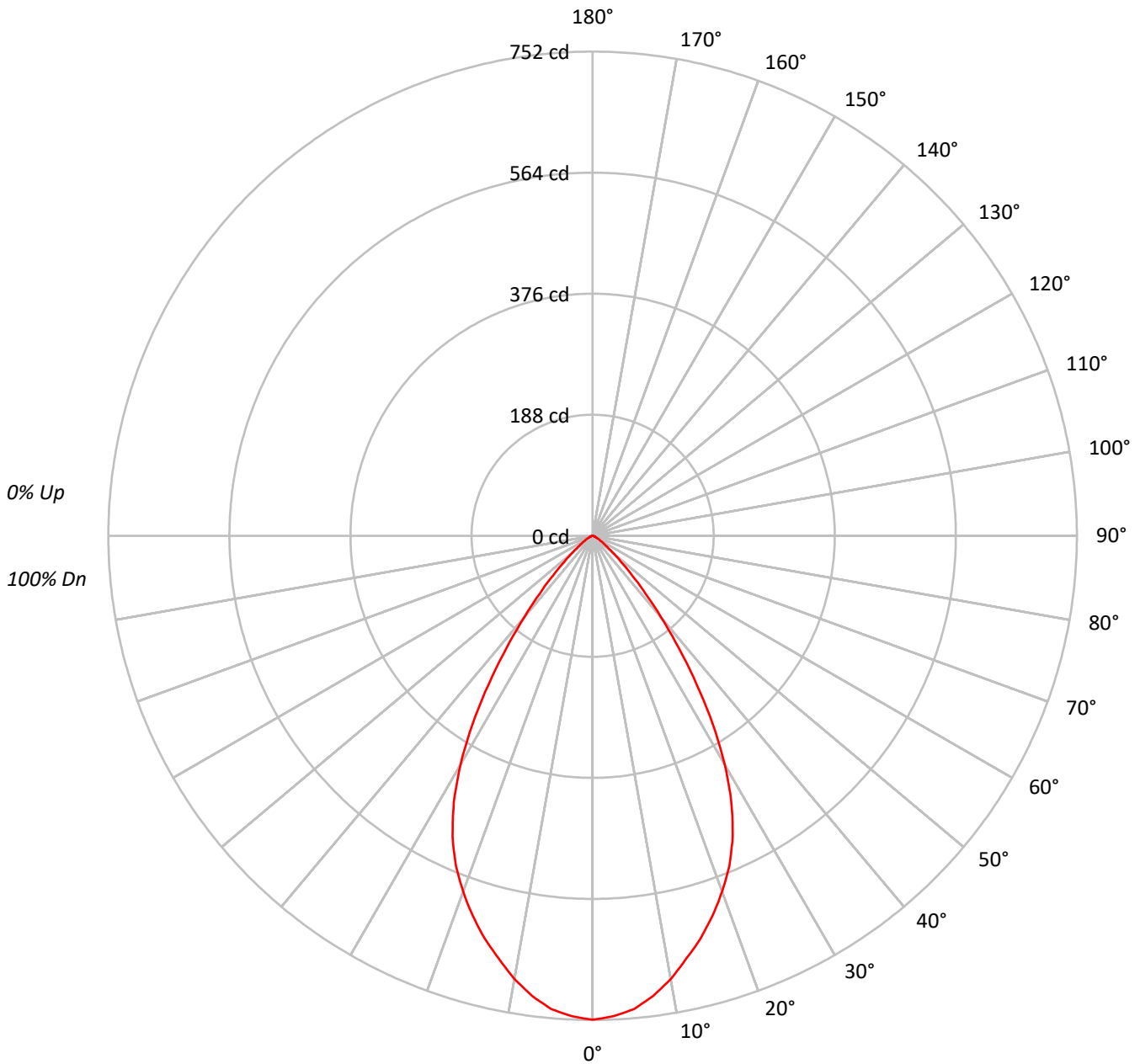
Lumens per Lamp: N/A  
Luminaire Lumens: 758.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.75  
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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67				67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				47

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

	0°
0°	92337
5°	91000
10°	87199
15°	82354
20°	76874
25°	69783
30°	58261
35°	42203
40°	26430
45°	15098
50°	7874
55°	4412
60°	2801
65°	1657
70°	1221
75°	522
80°	778
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	9.1
10°-20°	181.4	23.9
20°-30°	233.2	30.8
30°-40°	175.4	23.1
40°-50°	70.5	9.3
50°-60°	20.0	2.6
60°-70°	6.3	0.8
70°-80°	1.8	0.2
80°-90°	0.1	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°	483.8	63.8
0°-40°	659.2	87.0
0°-60°	749.7	98.9
0°-90°	758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	752	
5°	738	69
15°	648	181
25°	515	233
35°	281	175
45°	87	70
55°	21	20
65°	6	6
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	751.6
2.5°	747.0
5°	737.9
7.5°	720.7
10°	699.0
12.5°	672.7
15°	647.5
17.5°	618.9
20°	588.0
22.5°	554.9
25°	514.8
27.5°	466.7
30°	410.7
32.5°	347.8
35°	281.4
37.5°	219.6
40°	164.8
42.5°	121.3
45°	86.9
47.5°	59.5
50°	41.2
52.5°	28.6
55°	20.6
57.5°	14.9
60°	11.4
62.5°	8.0
65°	5.7
67.5°	4.6
70°	3.4
72.5°	2.3
75°	1.1
77.5°	1.1
80°	1.1
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)