

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: P571680

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P571680  
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-02-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**

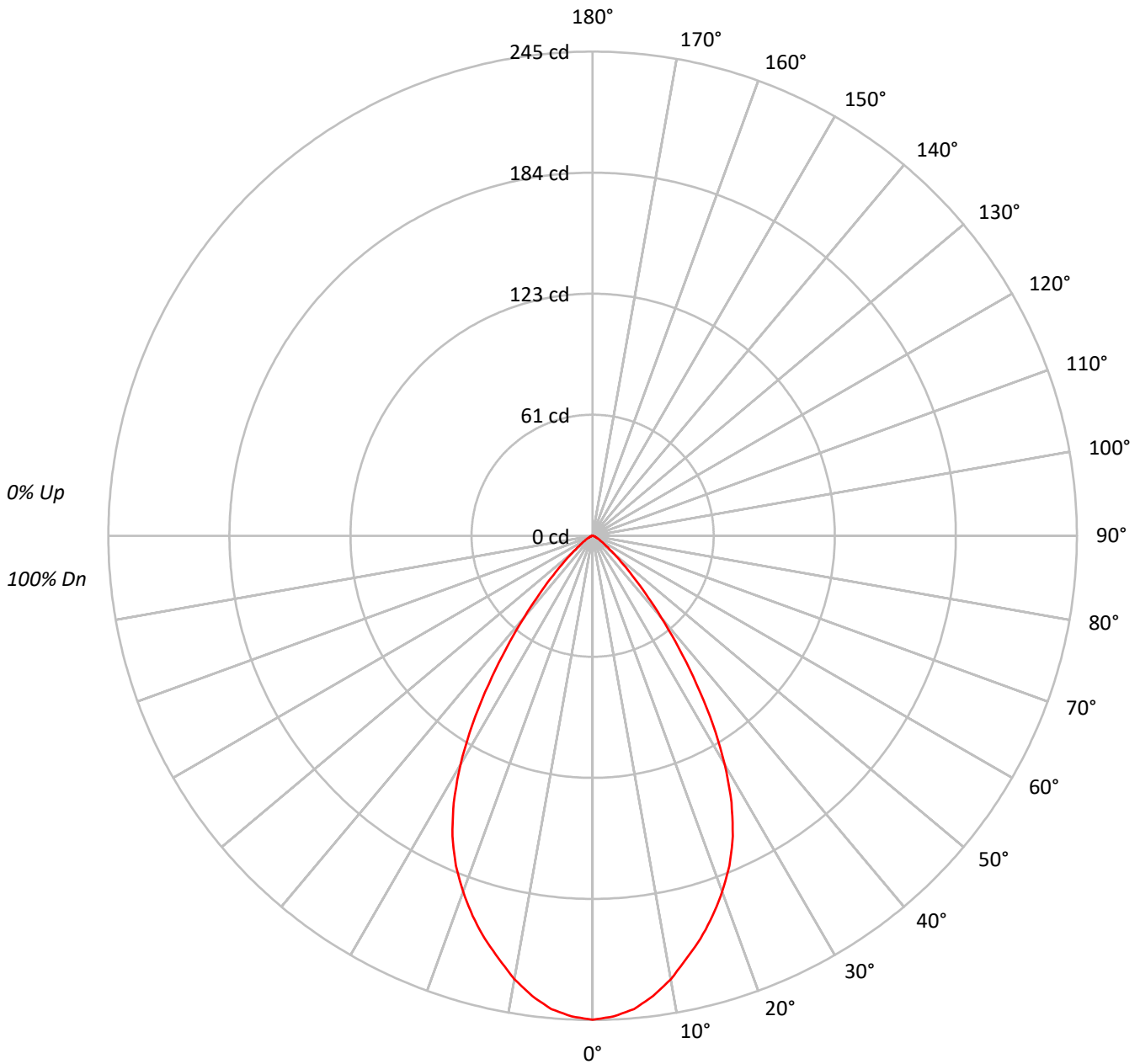
Lumens per Lamp: N/A  
Luminaire Lumens: 247.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	30087
5°	29647
10°	28418
15°	26837
20°	25049
25°	22746
30°	18981
35°	13753
40°	8612
45°	4917
50°	2561
55°	1435
60°	909
65°	552
70°	395
75°	190
80°	283
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	9.1
10°-20°	59.1	23.9
20°-30°	76.0	30.8
30°-40°	57.2	23.1
40°-50°	23.0	9.3
50°-60°	6.5	2.6
60°-70°	2.1	0.8
70°-80°	0.6	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°	157.6	63.8
0°-40°	214.8	87.0
0°-60°	244.3	98.9
0°-90°	247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	245	
5°	240	23
15°	211	59
25°	168	76
35°	92	57
45°	28	23
55°	7	7
65°	2	2
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	244.9
2.5°	243.4
5°	240.4
7.5°	234.8
10°	227.8
12.5°	219.2
15°	211.0
17.5°	201.7
20°	191.6
22.5°	180.8
25°	167.8
27.5°	152.1
30°	133.8
32.5°	113.3
35°	91.7
37.5°	71.6
40°	53.7
42.5°	39.5
45°	28.3
47.5°	19.4
50°	13.4
52.5°	9.3
55°	6.7
57.5°	4.8
60°	3.7
62.5°	2.6
65°	1.9
67.5°	1.5
70°	1.1
72.5°	0.7
75°	0.4
77.5°	0.4
80°	0.4
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)