

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: P573660

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-30 F4X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573660  
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-50-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**

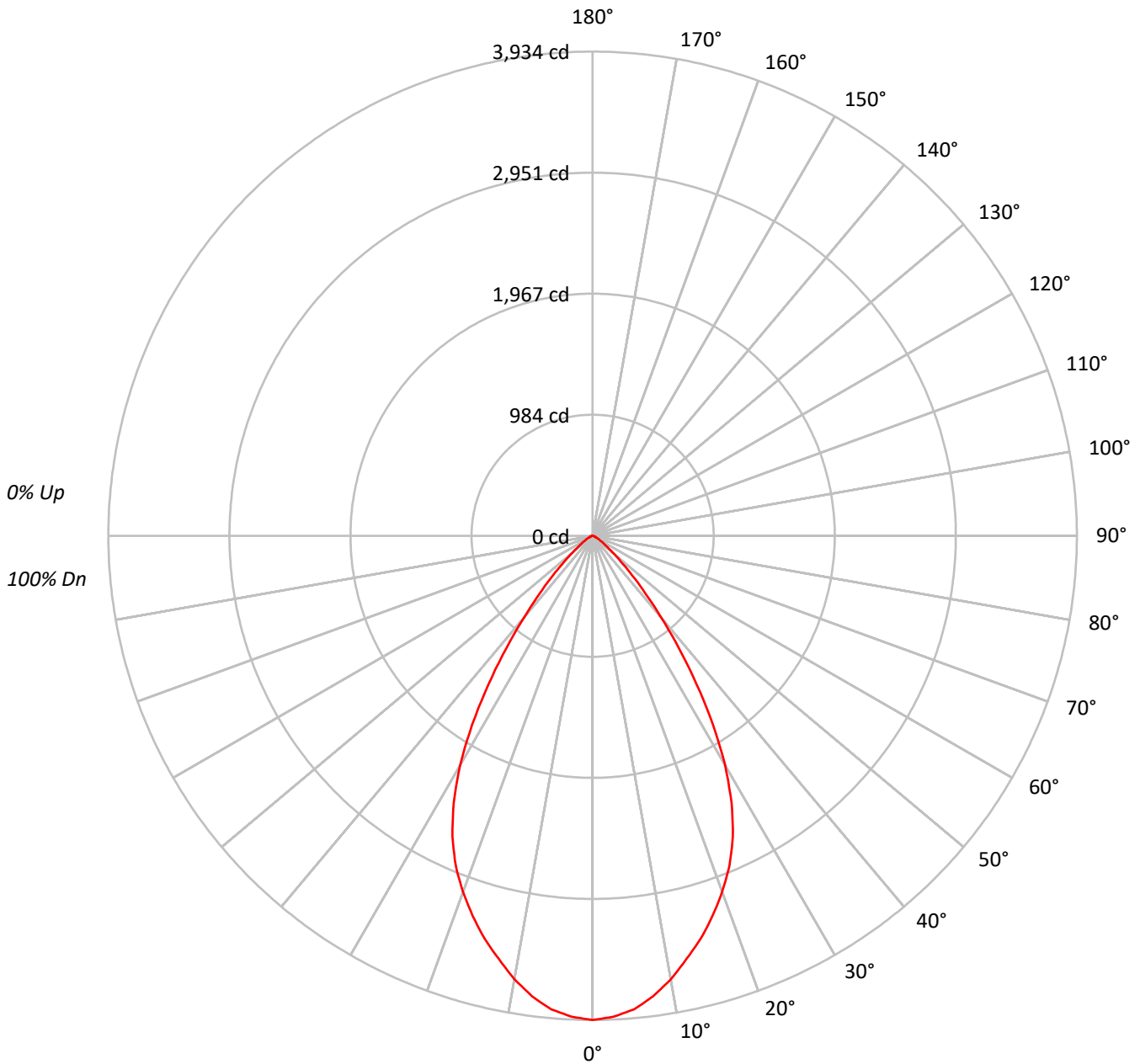
Lumens per Lamp: N/A  
Luminaire Lumens: 3968.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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				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°	483367
5°	476346
10°	456443
15°	431114
20°	402424
25°	365304
30°	304997
35°	220960
40°	138306
45°	79070
50°	41226
55°	23090
60°	14718
65°	8721
70°	6466
75°	2848
80°	4245
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.0	9.1
10°-20°	949.8	23.9
20°-30°	1220.6	30.8
30°-40°	918.4	23.1
40°-50°	368.8	9.3
50°-60°	104.9	2.6
60°-70°	33.2	0.8
70°-80°	9.5	0.2
80°-90°	0.8	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°	2532.5	63.8
0°-40°	3450.8	87.0
0°-60°	3924.5	98.9
0°-90°	3968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3968.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3934	
5°	3863	362
15°	3390	950
25°	2695	1221
35°	1473	918
45°	455	369
55°	108	105
65°	30	33
75°	6	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3934.5
2.5°	3910.6
5°	3862.6
7.5°	3772.8
10°	3658.9
12.5°	3521.4
15°	3389.6
17.5°	3239.8
20°	3078.1
22.5°	2904.6
25°	2694.9
27.5°	2443.3
30°	2150.0
32.5°	1820.5
35°	1473.3
37.5°	1149.7
40°	862.4
42.5°	634.8
45°	455.1
47.5°	311.5
50°	215.7
52.5°	149.8
55°	107.8
57.5°	77.9
60°	59.9
62.5°	41.9
65°	30.0
67.5°	24.0
70°	18.0
72.5°	12.0
75°	6.0
77.5°	6.0
80°	6.0
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)