

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: P573594

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

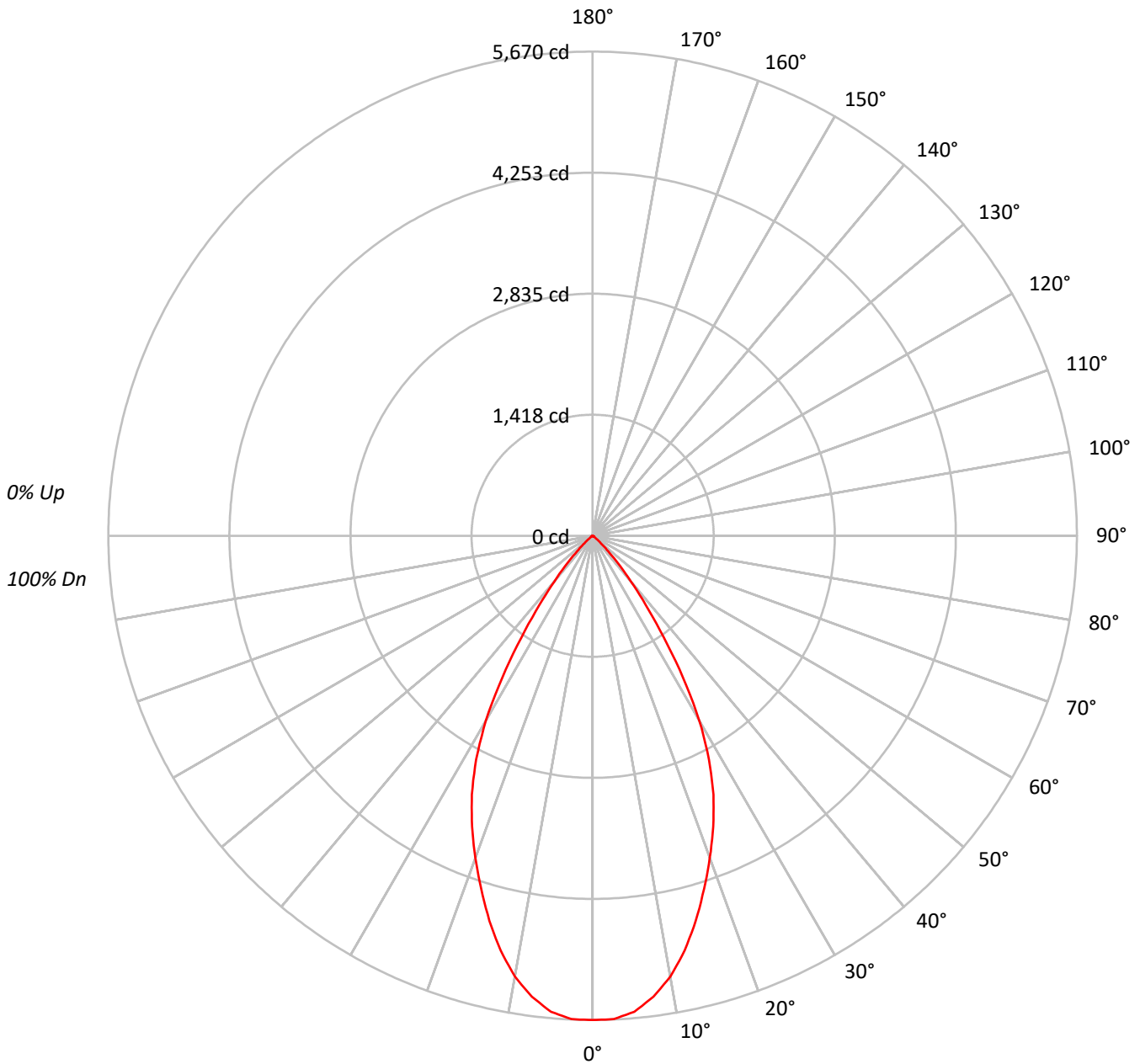
Lumens per Lamp: N/A  
Luminaire Lumens: 4531.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.6  
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

TEST NUMBER: P573594

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI

### Luminous Intensity Polar Plot





TEST NUMBER: P573594

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI

**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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82				82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76				76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71				71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59				59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52				52

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

	0°
0°	696616
5°	689991
10°	653833
15°	593621
20°	524547
25°	453495
30°	354491
35°	217391
40°	111588
45°	44321
50°	14392
55°	4969
60°	4251
65°	3401
70°	2083
75°	2753
80°	0
85°	0



TEST NUMBER: P573594

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.4	11.5
10°-20°	1300.5	28.7
20°-30°	1511.8	33.4
30°-40°	925.8	20.4
40°-50°	229.9	5.1
50°-60°	26.9	0.6
60°-70°	10.0	0.2
70°-80°	3.8	0.1
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°	3334.6	73.6
0°-40°	4260.4	94.0
0°-60°	4517.2	99.7
0°-90°	4531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5670	
5°	5595	522
15°	4667	1300
25°	3346	1512
35°	1450	926
45°	255	230
55°	23	27
65°	12	10
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573594

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5670.3
2.5°	5664.5
5°	5595.0
7.5°	5444.2
10°	5241.2
12.5°	4974.6
15°	4667.3
17.5°	4336.8
20°	4012.2
22.5°	3687.4
25°	3345.5
27.5°	2951.2
30°	2498.9
32.5°	1971.3
35°	1449.5
37.5°	1020.4
40°	695.8
42.5°	434.8
45°	255.1
47.5°	145.0
50°	75.3
52.5°	34.8
55°	23.2
57.5°	17.3
60°	17.3
62.5°	11.7
65°	11.7
67.5°	5.8
70°	5.8
72.5°	5.8
75°	5.8
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)