

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: P573618

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)  
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-W-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

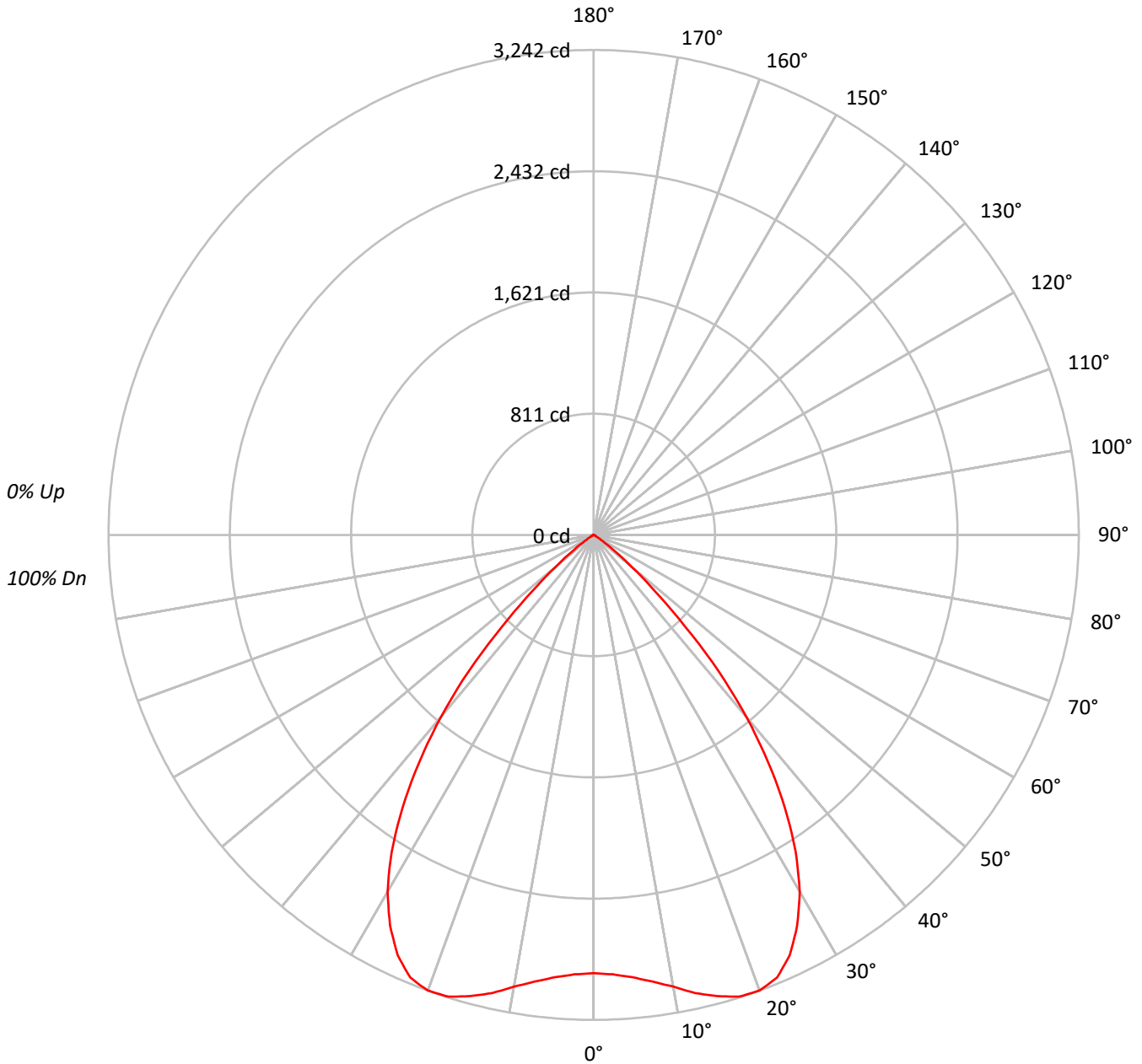
Lumens per Lamp: N/A  
Luminaire Lumens: 4781.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P573618

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

### Luminous Intensity Polar Plot





TEST NUMBER: P573618

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

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	359875
5°	365985
10°	382529
15°	406007
20°	423787
25°	420108
30°	390694
35°	334237
40°	254658
45°	149365
50°	63817
55°	18784
60°	5381
65°	3198
70°	1976
75°	2611
80°	0
85°	0



TEST NUMBER: P573618

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.5	6.0
10°-20°	904.1	18.9
20°-30°	1410.3	29.5
30°-40°	1372.2	28.7
40°-50°	685.4	14.3
50°-60°	106.1	2.2
60°-70°	12.8	0.3
70°-80°	3.6	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°	2600.8	54.4
0°-40°	3973.1	83.1
0°-60°	4764.6	99.7
0°-90°	4781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2929	
5°	2968	286
15°	3192	904
25°	3099	1410
35°	2229	1372
45°	860	685
55°	88	106
65°	11	13
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573618

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

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2929.3
2.5°	2940.3
5°	2967.7
7.5°	3011.5
10°	3066.4
12.5°	3137.4
15°	3192.2
17.5°	3236.1
20°	3241.5
22.5°	3203.2
25°	3099.2
27.5°	2945.7
30°	2754.1
32.5°	2513.4
35°	2228.6
37.5°	1916.3
40°	1587.9
42.5°	1237.5
45°	859.7
47.5°	553.0
50°	333.9
52.5°	180.7
55°	87.7
57.5°	38.4
60°	21.9
62.5°	16.4
65°	11.0
67.5°	11.0
70°	5.5
72.5°	5.5
75°	5.5
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)