

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: P573276

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

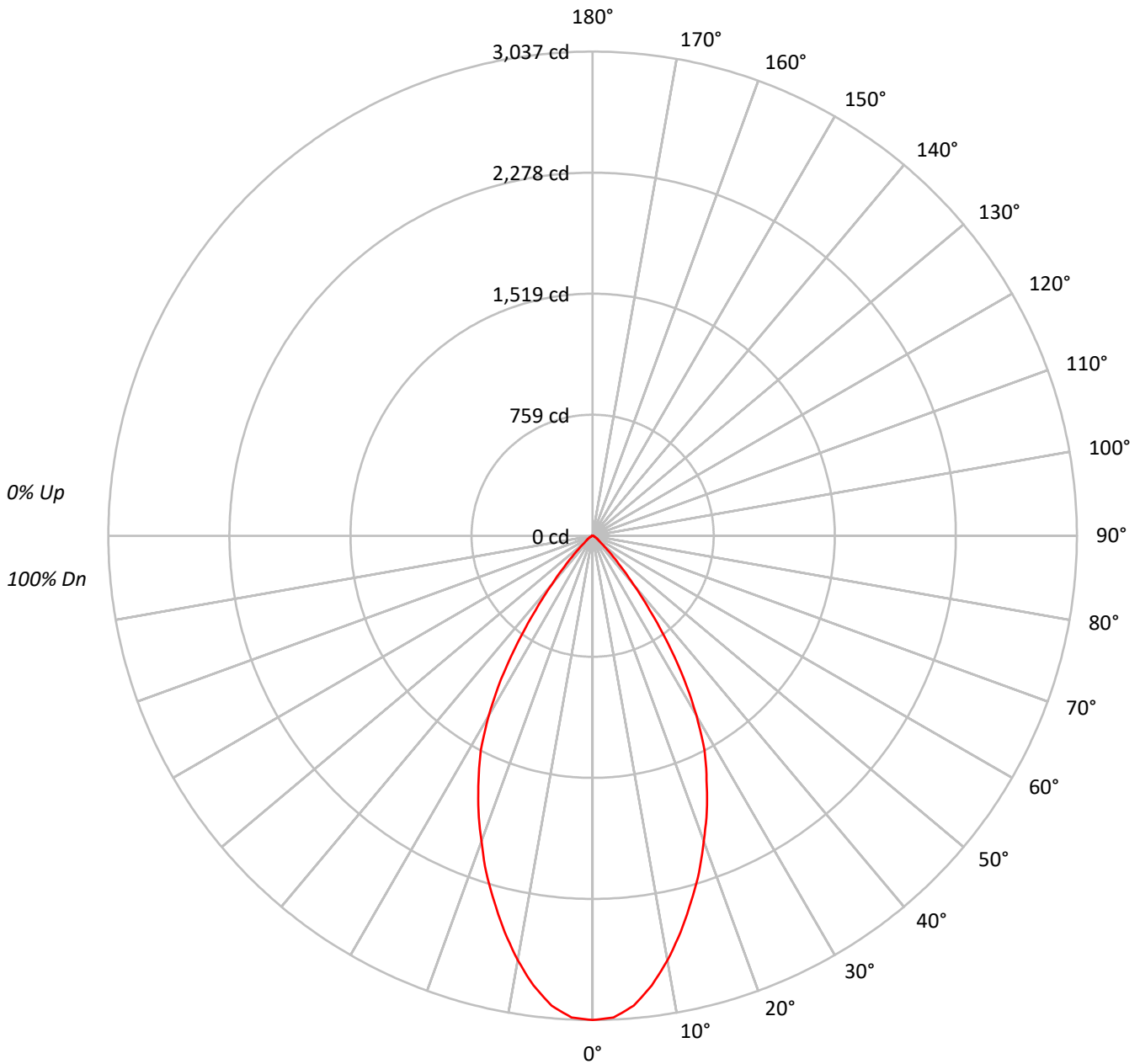
Lumens per Lamp: N/A  
Luminaire Lumens: 2419.0 lumens  
Efficiency: N/A  
Efficacy: 51.5 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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: P573276

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H

### Luminous Intensity Polar Plot





TEST NUMBER: P573276

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H

**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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

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

	0°
0°	373131
5°	364826
10°	337320
15°	302668
20°	266444
25°	229303
30°	184644
35°	122921
40°	63941
45°	28945
50°	12557
55°	8439
60°	5406
65°	3837
70°	3161
75°	2089
80°	0
85°	0



TEST NUMBER: P573276

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.0	11.3
10°-20°	664.7	27.5
20°-30°	771.7	31.9
30°-40°	511.0	21.1
40°-50°	143.3	5.9
50°-60°	36.0	1.5
60°-70°	13.6	0.6
70°-80°	4.6	0.2
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°	1710.4	70.7
0°-40°	2221.5	91.8
0°-60°	2400.8	99.2
0°-90°	2419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3037	
5°	2958	274
15°	2380	665
25°	1692	772
35°	820	511
45°	167	143
55°	39	36
65°	13	14
75°	4	5
85°	0	0
90°	0	



TEST NUMBER: P573276

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-27 F4X-N-X-H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3037.2
2.5°	3024.0
5°	2958.3
7.5°	2844.2
10°	2704.0
12.5°	2546.1
15°	2379.7
17.5°	2217.5
20°	2038.0
22.5°	1871.4
25°	1691.6
27.5°	1520.8
30°	1301.6
32.5°	1069.3
35°	819.6
37.5°	587.3
40°	398.7
42.5°	258.5
45°	166.6
47.5°	100.9
50°	65.7
52.5°	48.1
55°	39.4
57.5°	30.8
60°	22.0
62.5°	17.6
65°	13.2
67.5°	8.8
70°	8.8
72.5°	4.4
75°	4.4
77.5°	4.4
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)