

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: P573396

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
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-90-40 F4X-W-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

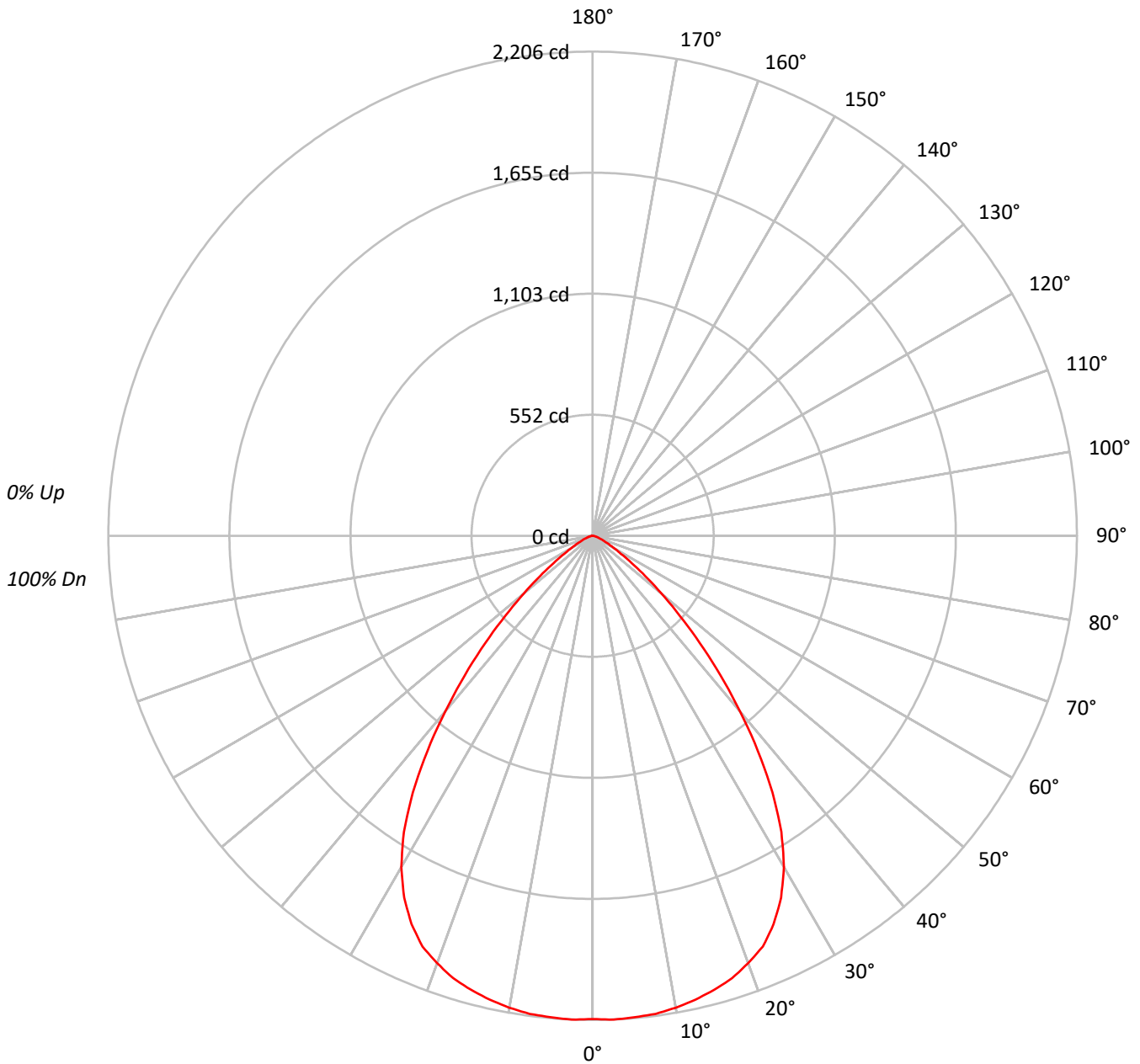
Lumens per Lamp: N/A  
Luminaire Lumens: 3416.0 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	270499
5°	271532
10°	272364
15°	272372
20°	270876
25°	264533
30°	247246
35°	214106
40°	167254
45°	120003
50°	77960
55°	46672
60°	27298
65°	17529
70°	11674
75°	8829
80°	6580
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.7	6.1
10°-20°	604.2	17.7
20°-30°	891.5	26.1
30°-40°	879.8	25.8
40°-50°	538.4	15.8
50°-60°	206.4	6.0
60°-70°	64.5	1.9
70°-80°	18.9	0.6
80°-90°	2.5	0.1
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°	1705.4	49.9
0°-40°	2585.2	75.7
0°-60°	3330.1	97.5
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2202	
5°	2202	210
15°	2142	604
25°	1952	892
35°	1428	880
45°	691	538
55°	218	206
65°	60	65
75°	19	19
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2201.8
2.5°	2206.5
5°	2201.8
7.5°	2197.2
10°	2183.3
12.5°	2164.7
15°	2141.5
17.5°	2113.7
20°	2071.9
22.5°	2025.7
25°	1951.5
27.5°	1858.7
30°	1742.9
32.5°	1599.3
35°	1427.6
37.5°	1237.6
40°	1042.9
42.5°	862.2
45°	690.7
47.5°	537.6
50°	407.9
52.5°	301.4
55°	217.9
57.5°	152.9
60°	111.1
62.5°	83.5
65°	60.3
67.5°	46.4
70°	32.5
72.5°	23.2
75°	18.6
77.5°	9.3
80°	9.3
82.5°	4.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)