

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: P571980

Luminaire Tested: **FLD4C-05-D010 FEU4C-X-90-50 F4X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P571980  
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-05-D010 FEU4C-X-90-50 F4X-N-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

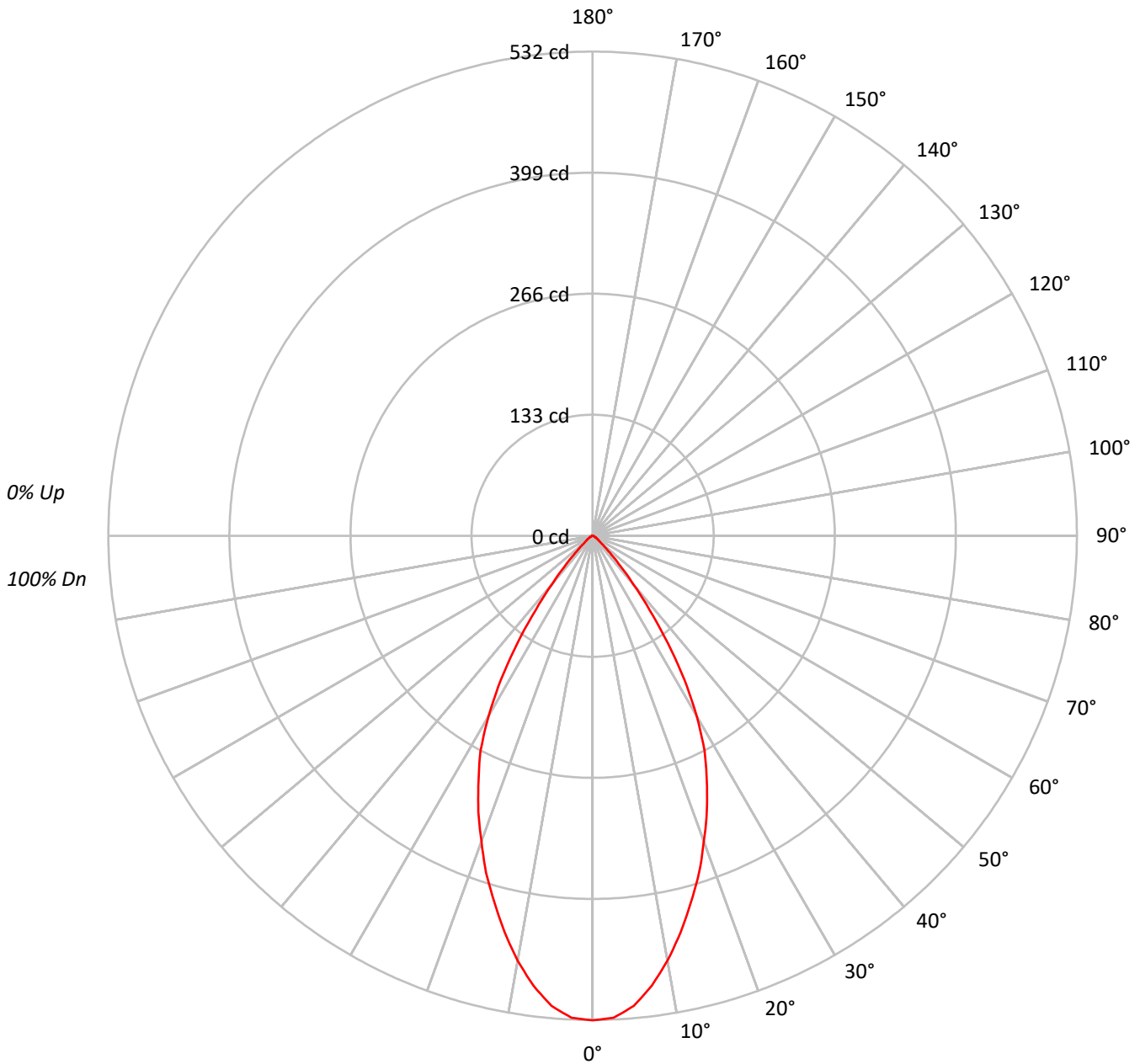
Lumens per Lamp: N/A  
Luminaire Lumens: 424.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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	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	76	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°	65407
5°	63943
10°	59118
15°	53050
20°	46700
25°	40192
30°	32372
35°	21552
40°	11210
45°	5073
50°	2198
55°	1478
60°	958
65°	669
70°	539
75°	380
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	11.3
10°-20°	116.5	27.5
20°-30°	135.3	31.9
30°-40°	89.6	21.1
40°-50°	25.1	5.9
50°-60°	6.3	1.5
60°-70°	2.4	0.6
70°-80°	0.8	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°	299.8	70.7
0°-40°	389.4	91.8
0°-60°	420.8	99.2
0°-90°	424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	532	
5°	518	48
15°	417	117
25°	296	135
35°	144	90
45°	29	25
55°	7	6
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	532.4
2.5°	530.0
5°	518.5
7.5°	498.5
10°	473.9
12.5°	446.3
15°	417.1
17.5°	388.7
20°	357.2
22.5°	328.0
25°	296.5
27.5°	266.6
30°	228.2
32.5°	187.4
35°	143.7
37.5°	102.9
40°	69.9
42.5°	45.3
45°	29.2
47.5°	17.7
50°	11.5
52.5°	8.4
55°	6.9
57.5°	5.4
60°	3.9
62.5°	3.1
65°	2.3
67.5°	1.5
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.8
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)