

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: P572850

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-40 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-25-D010 FEU4C-X-90-40 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

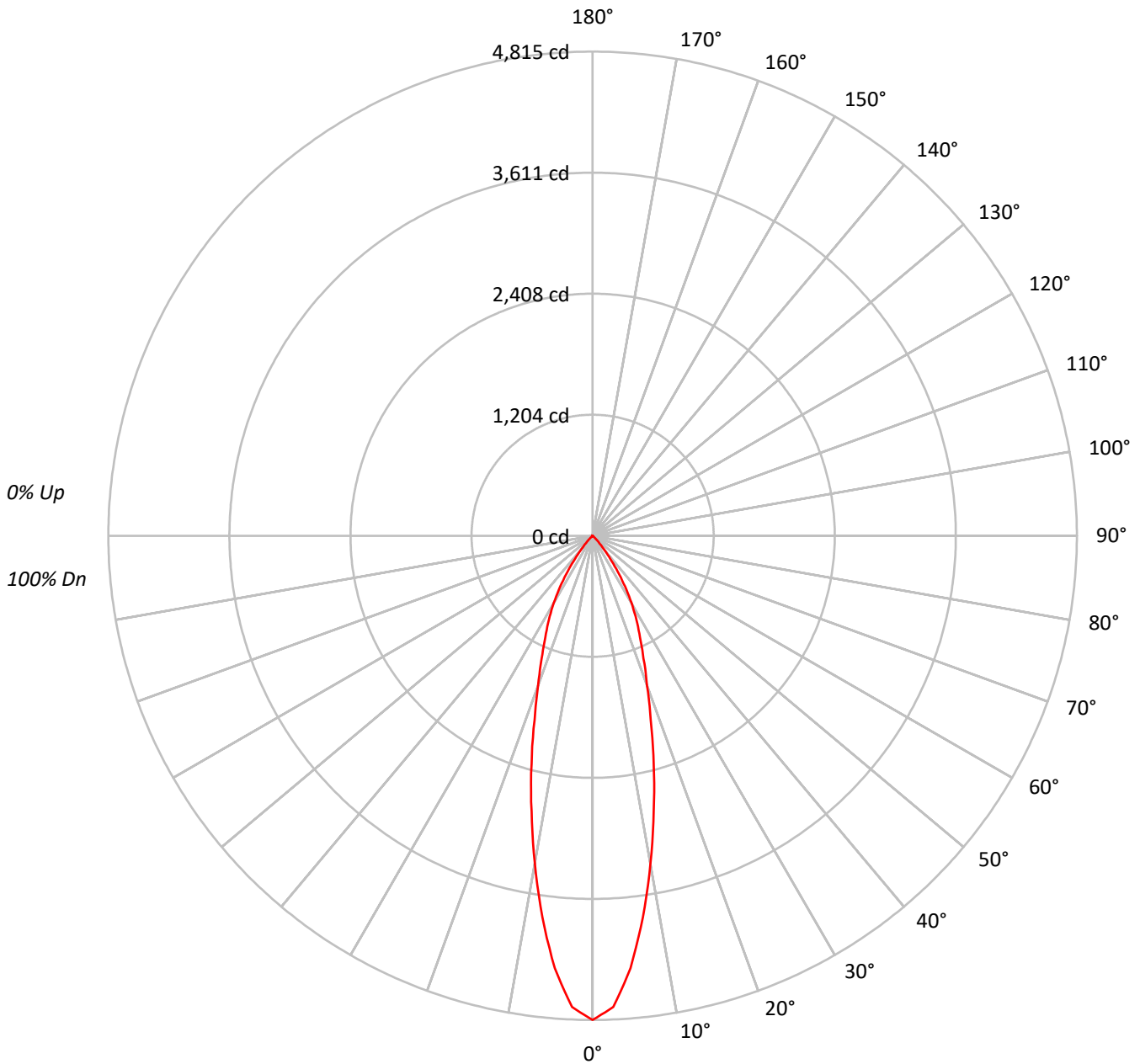
Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (Ain): 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				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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90				90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85				85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81				81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77				77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73				73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69				69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66				66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63				63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61				61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	591527
5°	532310
10°	412656
15°	298674
20°	206814
25°	150777
30°	109543
35°	64820
40°	27264
45°	8496
50°	1109
55°	621
60°	713
65°	843
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.4	20.3
10°-20°	649.6	34.7
20°-30°	516.3	27.6
30°-40°	273.3	14.6
40°-50°	47.1	2.5
50°-60°	3.5	0.2
60°-70°	1.8	0.1
70°-80°	0.0	0.0
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°	1545.3	82.6
0°-40°	1818.6	97.2
0°-60°	1869.2	99.9
0°-90°	1871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4815	
5°	4316	379
15°	2348	650
25°	1112	516
35°	432	273
45°	49	47
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4814.9
2.5°	4690.9
5°	4316.4
7.5°	3826.6
10°	3307.9
12.5°	2806.5
15°	2348.3
17.5°	1921.9
20°	1581.9
22.5°	1322.5
25°	1112.3
27.5°	942.3
30°	772.2
32.5°	599.4
35°	432.2
37.5°	285.3
40°	170.0
42.5°	98.0
45°	48.9
47.5°	17.3
50°	5.8
52.5°	5.8
55°	2.9
57.5°	2.9
60°	2.9
62.5°	2.9
65°	2.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)