

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: P571806

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-50 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571806
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-02-D010 FEU4C-X-90-50 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

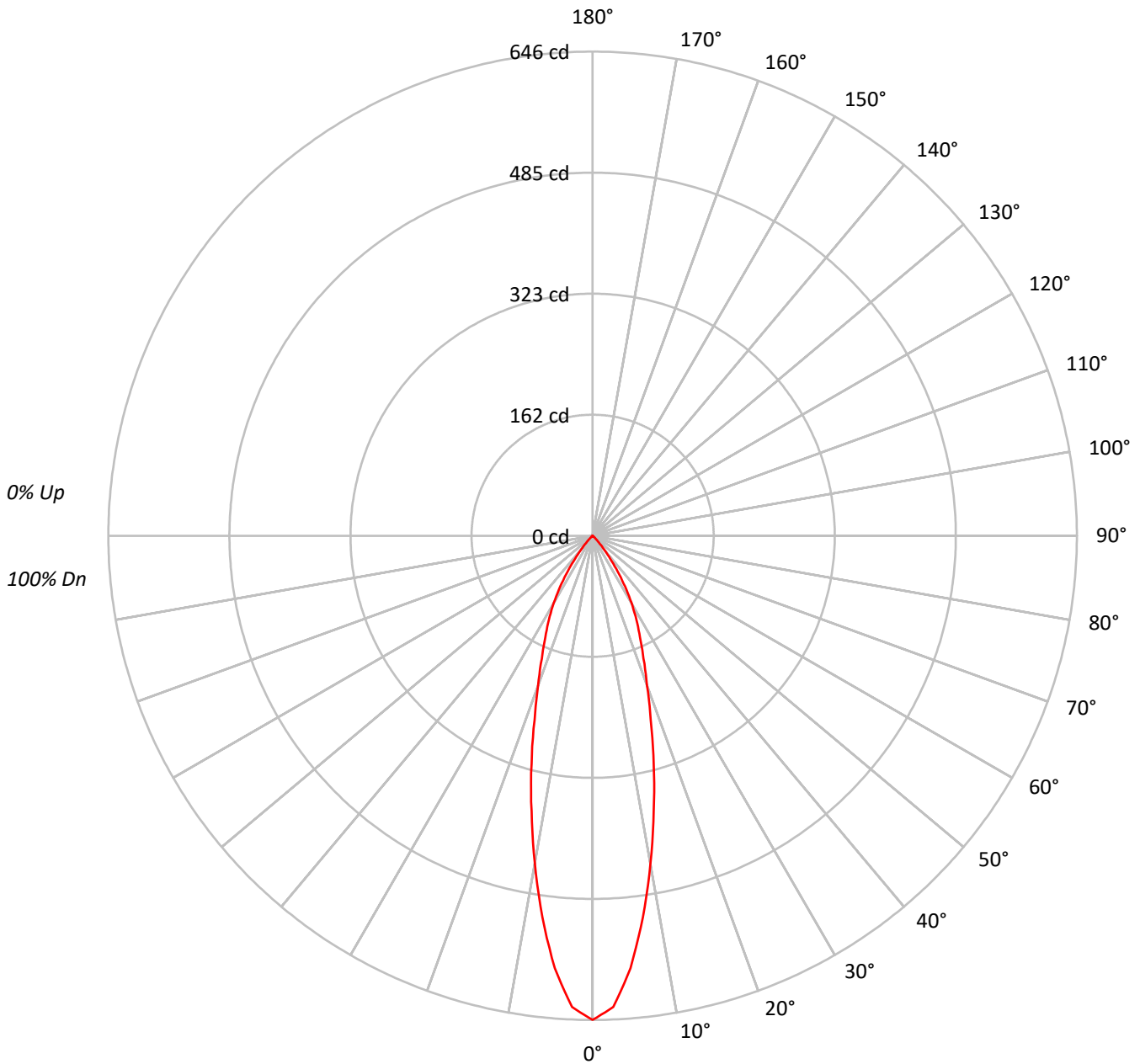
Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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									50									30									10									0									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	99	98	97	95	95	95	92	90																	
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	95	93	92	90	90	87	85	85																	
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	88	91	89	87	85	85	82	81	81																	
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	83	87	84	82	81	81	78	77	77																	
	4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	83	80	78	77	77	79	85	81	78	77	77	74	73	73																	
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	79	85	81	78	77	74	73	73	73																	
	6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	75	81	78	75	74	73	73	73	73	73																
	7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	69	71	77	73	71	69	69	69	69	69	69																
	8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	68	74	70	67	66	66	66	66	66	66																
	9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	72	68	65	64	63	63	63	63	63	63																
	10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	69	65	62	61	61	61	61	61	61	61																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79351
5°	71416
10°	55363
15°	40064
20°	27743
25°	20225
30°	14697
35°	8699
40°	3657
45°	1147
50°	153
55°	86
60°	98
65°	116
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	20.3
10°-20°	87.1	34.7
20°-30°	69.3	27.6
30°-40°	36.7	14.6
40°-50°	6.3	2.5
50°-60°	0.5	0.2
60°-70°	0.2	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°	207.3	82.6
0°-40°	244.0	97.2
0°-60°	250.8	99.9
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	646	
5°	579	51
15°	315	87
25°	149	69
35°	58	37
45°	7	6
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	645.9
2.5°	629.3
5°	579.1
7.5°	513.3
10°	443.8
12.5°	376.5
15°	315.0
17.5°	257.8
20°	212.2
22.5°	177.4
25°	149.2
27.5°	126.4
30°	103.6
32.5°	80.4
35°	58.0
37.5°	38.3
40°	22.8
42.5°	13.1
45°	6.6
47.5°	2.3
50°	0.8
52.5°	0.8
55°	0.4
57.5°	0.4
60°	0.4
62.5°	0.4
65°	0.4
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



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)