

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: P571782

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-40 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
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-90-40 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

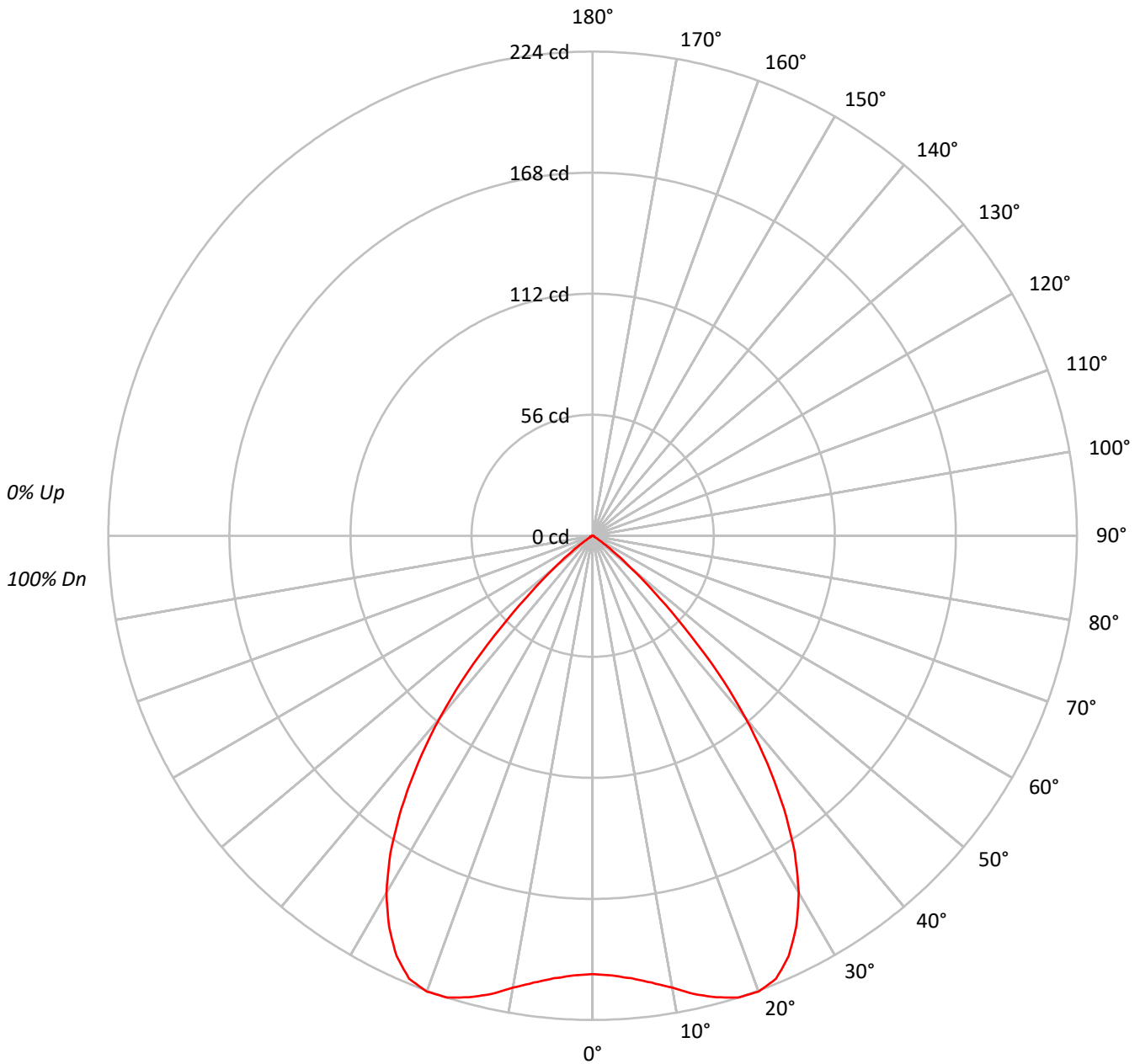
Lumens per Lamp: N/A
Luminaire Lumens: 331.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77															
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70															
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64															
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54															
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24915
5°	25343
10°	26484
15°	28108
20°	29338
25°	29090
30°	27053
35°	23141
40°	17625
45°	10338
50°	4415
55°	1307
60°	369
65°	233
70°	144
75°	190
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	6.0
10°-20°	62.6	18.9
20°-30°	97.6	29.5
30°-40°	95.0	28.7
40°-50°	47.5	14.3
50°-60°	7.4	2.2
60°-70°	0.9	0.3
70°-80°	0.3	0.1
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°	180.1	54.4
0°-40°	275.1	83.1
0°-60°	329.9	99.6
0°-90°	331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	331.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	203	
5°	206	20
15°	221	63
25°	215	98
35°	154	95
45°	60	47
55°	6	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	202.8
2.5°	203.6
5°	205.5
7.5°	208.5
10°	212.3
12.5°	217.2
15°	221.0
17.5°	224.0
20°	224.4
22.5°	221.8
25°	214.6
27.5°	203.9
30°	190.7
32.5°	174.0
35°	154.3
37.5°	132.7
40°	109.9
42.5°	85.7
45°	59.5
47.5°	38.3
50°	23.1
52.5°	12.5
55°	6.1
57.5°	2.7
60°	1.5
62.5°	1.1
65°	0.8
67.5°	0.8
70°	0.4
72.5°	0.4
75°	0.4
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)