

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: P571810

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-50 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571810
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-02-D010 FEU4C-X-90-50 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

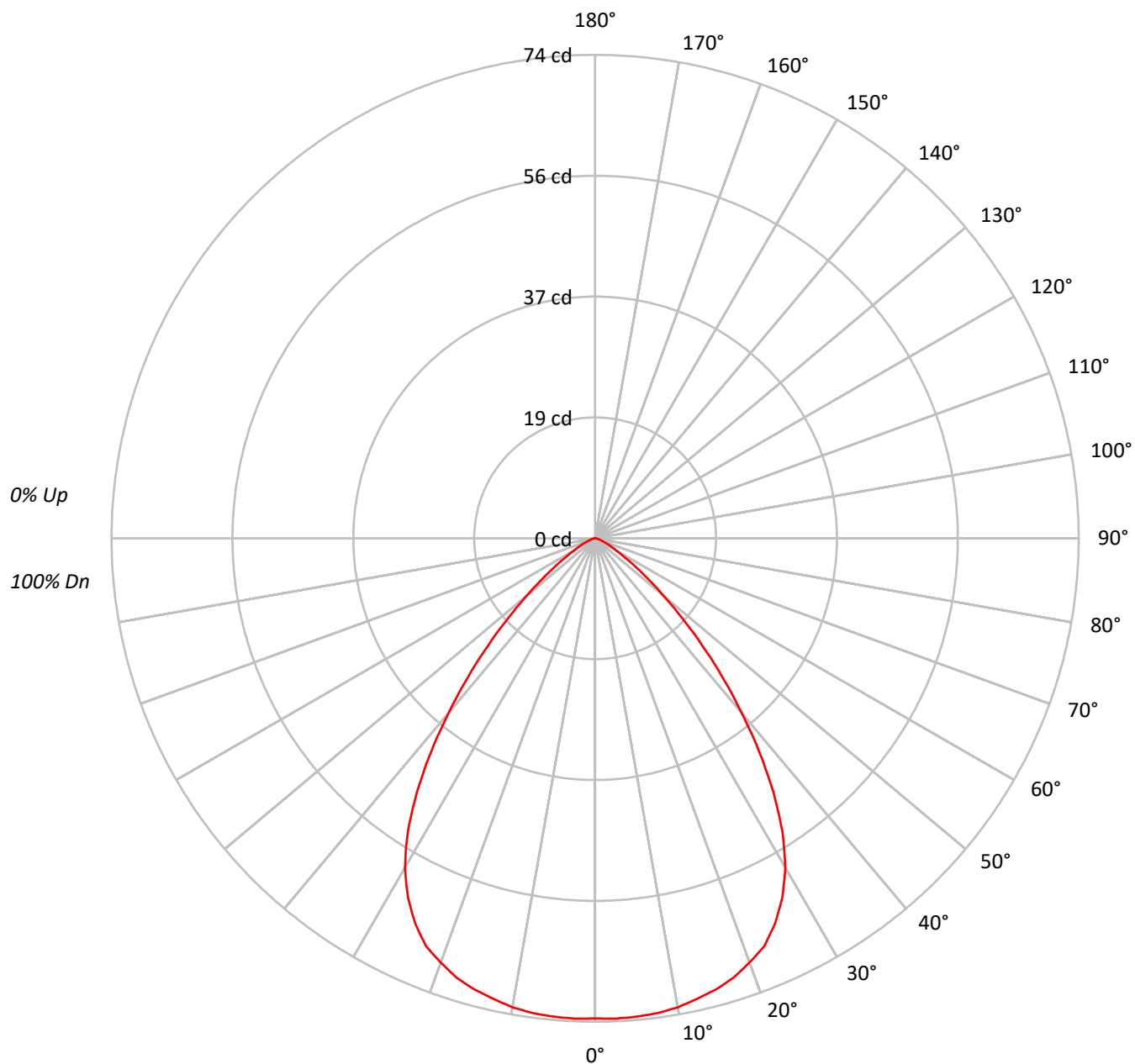
Lumens per Lamp: N/A
Luminaire Lumens: 114.0 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			96
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			89
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			82
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			76
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			70
6	81	71	63	58		80	70	63	58		68	62	58			67	61	57			65
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			61
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			57
9	67	56	49	45		66	56	49	45		55	49	44			54	48	44			53
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9030
5°	9064
10°	9094
15°	9094
20°	9034
25°	8825
30°	8256
35°	7139
40°	5581
45°	4013
50°	2599
55°	1564
60°	909
65°	581
70°	395
75°	285
80°	212
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	6.1
10°-20°	20.2	17.7
20°-30°	29.7	26.1
30°-40°	29.4	25.8
40°-50°	18.0	15.8
50°-60°	6.9	6.1
60°-70°	2.1	1.9
70°-80°	0.6	0.6
80°-90°	0.1	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°	56.9	49.9
0°-40°	86.3	75.7
0°-60°	111.1	97.5
0°-90°	114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	114.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	74	
5°	74	7
15°	72	20
25°	65	30
35°	48	29
45°	23	18
55°	7	7
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	73.5
2.5°	73.6
5°	73.5
7.5°	73.3
10°	72.9
12.5°	72.2
15°	71.5
17.5°	70.5
20°	69.1
22.5°	67.6
25°	65.1
27.5°	62.0
30°	58.2
32.5°	53.4
35°	47.6
37.5°	41.3
40°	34.8
42.5°	28.8
45°	23.1
47.5°	17.9
50°	13.6
52.5°	10.1
55°	7.3
57.5°	5.1
60°	3.7
62.5°	2.8
65°	2.0
67.5°	1.5
70°	1.1
72.5°	0.8
75°	0.6
77.5°	0.3
80°	0.3
82.5°	0.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)