

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: P571666

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571666
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-90-27 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

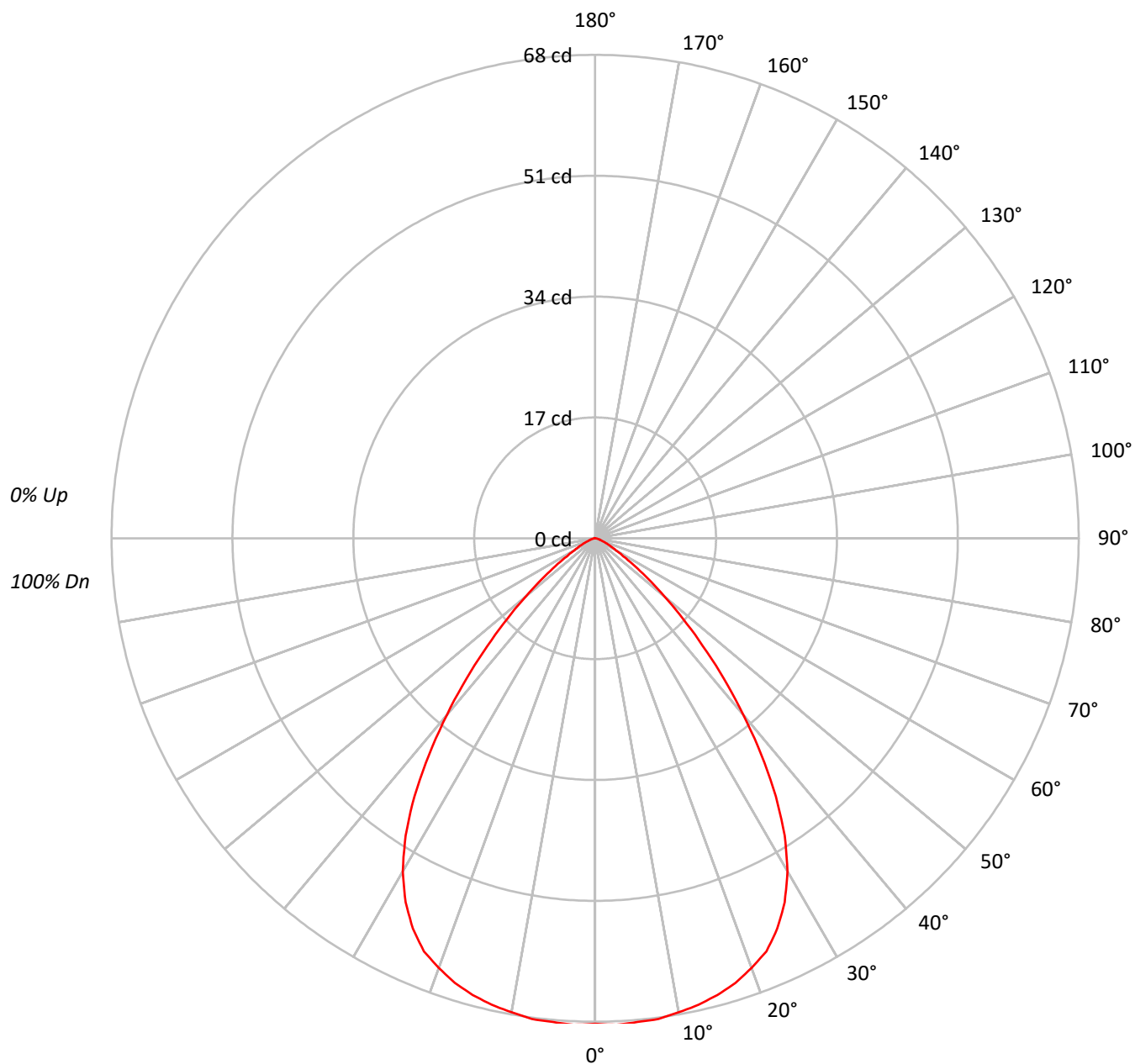
Lumens per Lamp: N/A
Luminaire Lumens: 106.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): NR
Input Current (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
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	64	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	68	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°	8391
5°	8423
10°	8445
15°	8458
20°	8406
25°	8215
30°	7675
35°	6644
40°	5196
45°	3718
50°	2427
55°	1456
60°	835
65°	552
70°	359
75°	285
80°	212
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	6.1
10°-20°	18.8	17.7
20°-30°	27.7	26.1
30°-40°	27.3	25.7
40°-50°	16.7	15.8
50°-60°	6.4	6.0
60°-70°	2.0	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°	52.9	49.9
0°-40°	80.2	75.7
0°-60°	103.4	97.5
0°-90°	106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	106.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	68	
5°	68	7
15°	66	19
25°	61	28
35°	44	27
45°	21	17
55°	7	6
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	68.3
2.5°	68.5
5°	68.3
7.5°	68.2
10°	67.7
12.5°	67.2
15°	66.5
17.5°	65.6
20°	64.3
22.5°	62.9
25°	60.6
27.5°	57.7
30°	54.1
32.5°	49.6
35°	44.3
37.5°	38.4
40°	32.4
42.5°	26.8
45°	21.4
47.5°	16.7
50°	12.7
52.5°	9.4
55°	6.8
57.5°	4.7
60°	3.4
62.5°	2.6
65°	1.9
67.5°	1.4
70°	1.0
72.5°	0.7
75°	0.6
77.5°	0.3
80°	0.3
82.5°	0.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)