

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: P571703

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-30 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571703
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-90-30 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

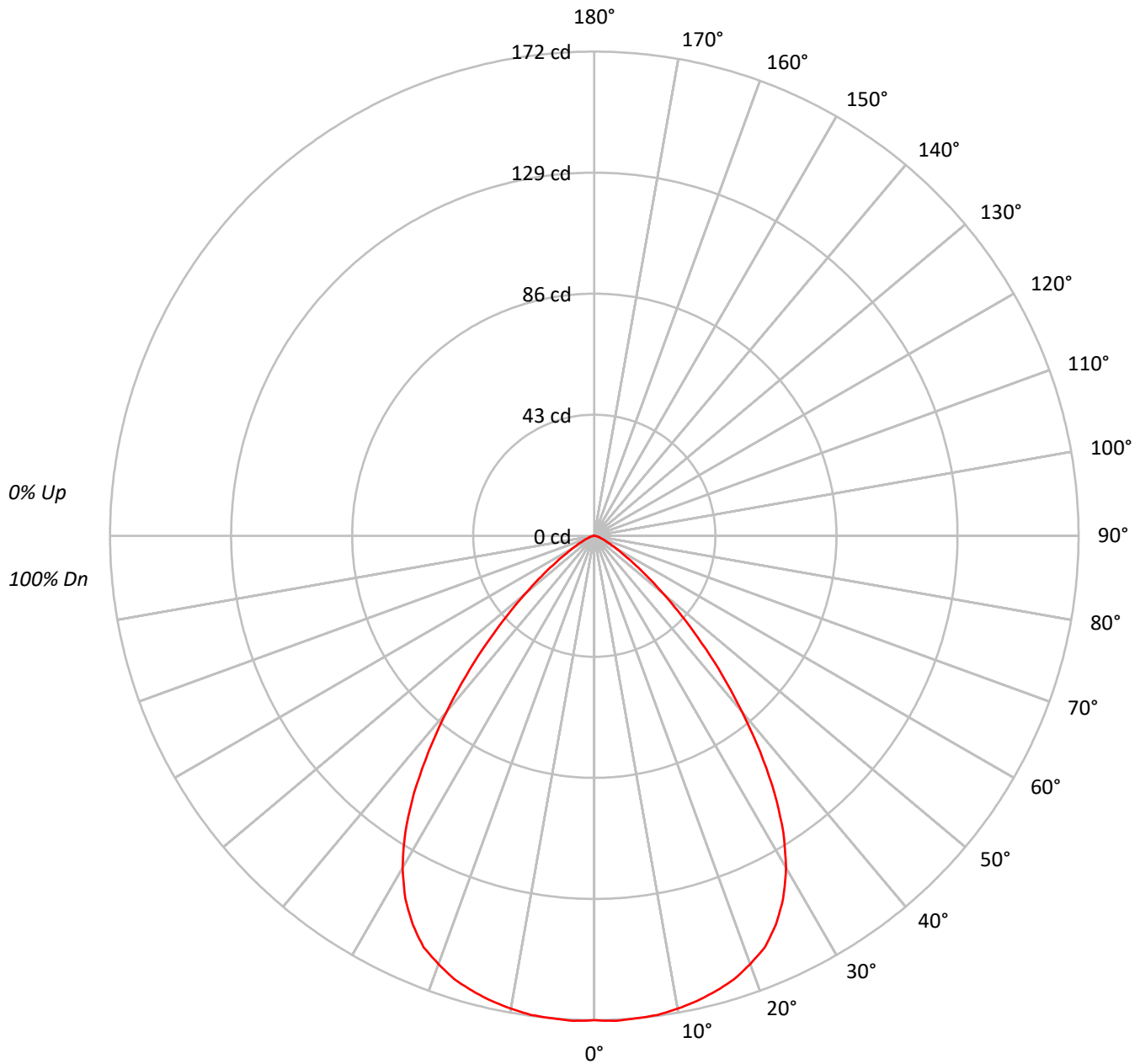
Lumens per Lamp: N/A
Luminaire Lumens: 267.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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						
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82						
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74						
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67						
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61						
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55						
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50						
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46						
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43						
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21143
5°	21224
10°	21282
15°	21291
20°	21166
25°	20672
30°	19321
35°	16737
40°	13070
45°	9382
50°	6097
55°	3641
60°	2138
65°	1366
70°	898
75°	712
80°	495
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	6.1
10°-20°	47.2	17.7
20°-30°	69.7	26.1
30°-40°	68.8	25.8
40°-50°	42.1	15.8
50°-60°	16.2	6.0
60°-70°	5.0	1.9
70°-80°	1.5	0.6
80°-90°	0.2	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°	133.3	49.9
0°-40°	202.0	75.7
0°-60°	260.3	97.5
0°-90°	267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	267.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	172	
5°	172	16
15°	167	47
25°	152	70
35°	112	69
45°	54	42
55°	17	16
65°	5	5
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	172.1
2.5°	172.5
5°	172.1
7.5°	171.7
10°	170.6
12.5°	169.2
15°	167.4
17.5°	165.2
20°	161.9
22.5°	158.3
25°	152.5
27.5°	145.3
30°	136.2
32.5°	125.0
35°	111.6
37.5°	96.7
40°	81.5
42.5°	67.4
45°	54.0
47.5°	42.0
50°	31.9
52.5°	23.6
55°	17.0
57.5°	12.0
60°	8.7
62.5°	6.5
65°	4.7
67.5°	3.6
70°	2.5
72.5°	1.8
75°	1.5
77.5°	0.7
80°	0.7
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)