

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: P571690

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-30 F4X-N-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-N-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

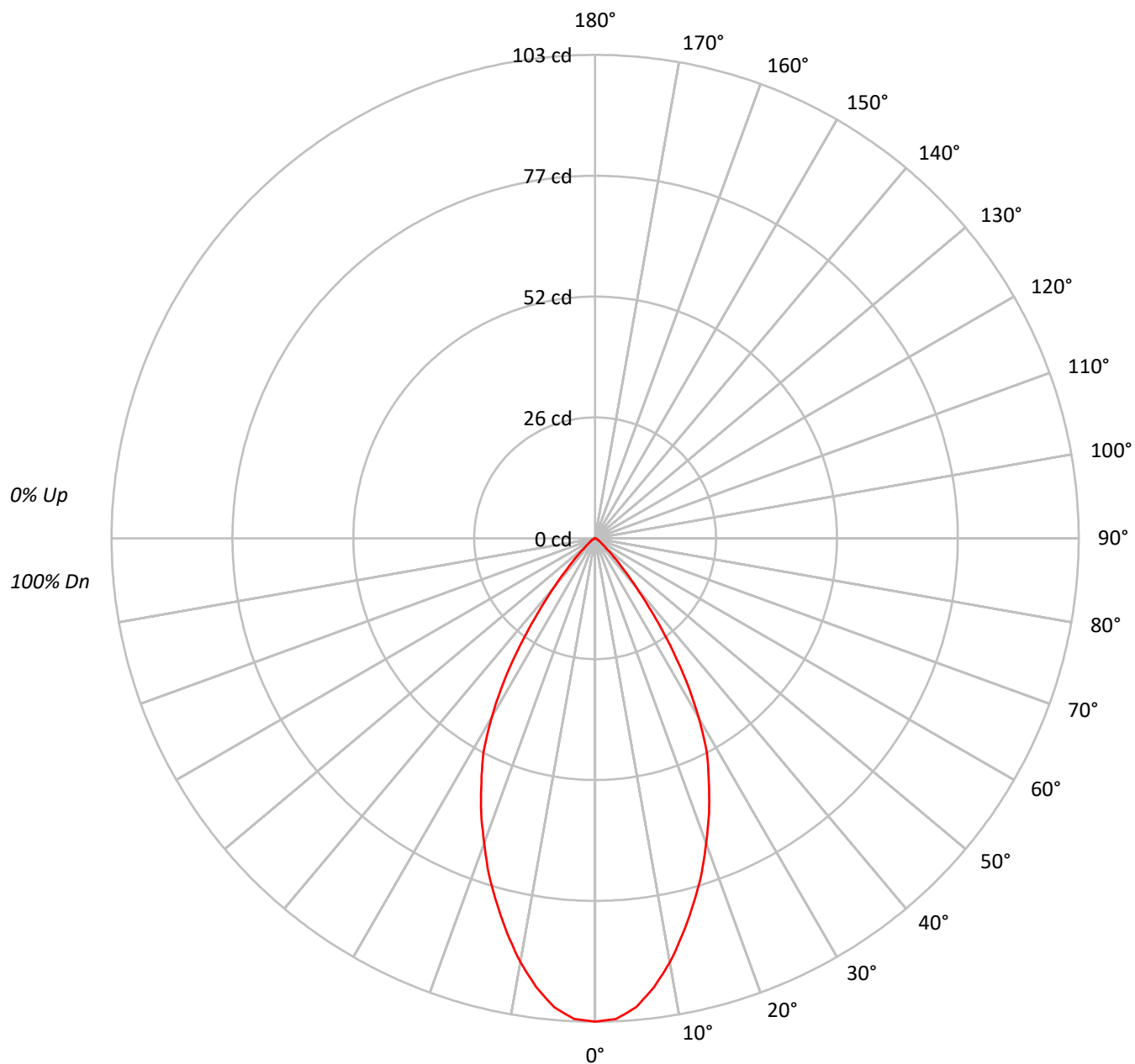
Lumens per Lamp: N/A
Luminaire Lumens: 81.9 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	89	83	80		86	82	79		84	81	78		83	79	77
5	92	84	78	74		91	83	78	74		81	77	73		80	75	72		78	74	72
6	88	79	73	69		86	78	72	68		77	72	68		75	71	67		74	70	67
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56		75	66	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53		71	62	57	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12654
5°	12369
10°	11439
15°	10264
20°	9034
25°	7767
30°	6256
35°	4169
40°	2165
45°	973
50°	420
55°	278
60°	172
65°	116
70°	108
75°	47
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	11.3
10°-20°	22.5	27.5
20°-30°	26.2	31.9
30°-40°	17.3	21.1
40°-50°	4.8	5.9
50°-60°	1.2	1.5
60°-70°	0.4	0.5
70°-80°	0.1	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°	58.0	70.8
0°-40°	75.3	91.9
0°-60°	81.3	99.3
0°-90°	81.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	81.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	103	
5°	100	9
15°	81	23
25°	57	26
35°	28	17
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	103.0
2.5°	102.5
5°	100.3
7.5°	96.4
10°	91.7
12.5°	86.3
15°	80.7
17.5°	75.2
20°	69.1
22.5°	63.4
25°	57.3
27.5°	51.6
30°	44.1
32.5°	36.2
35°	27.8
37.5°	19.9
40°	13.5
42.5°	8.8
45°	5.6
47.5°	3.4
50°	2.2
52.5°	1.6
55°	1.3
57.5°	1.0
60°	0.7
62.5°	0.6
65°	0.4
67.5°	0.3
70°	0.3
72.5°	0.1
75°	0.1
77.5°	0.1
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)