

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: P571678

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

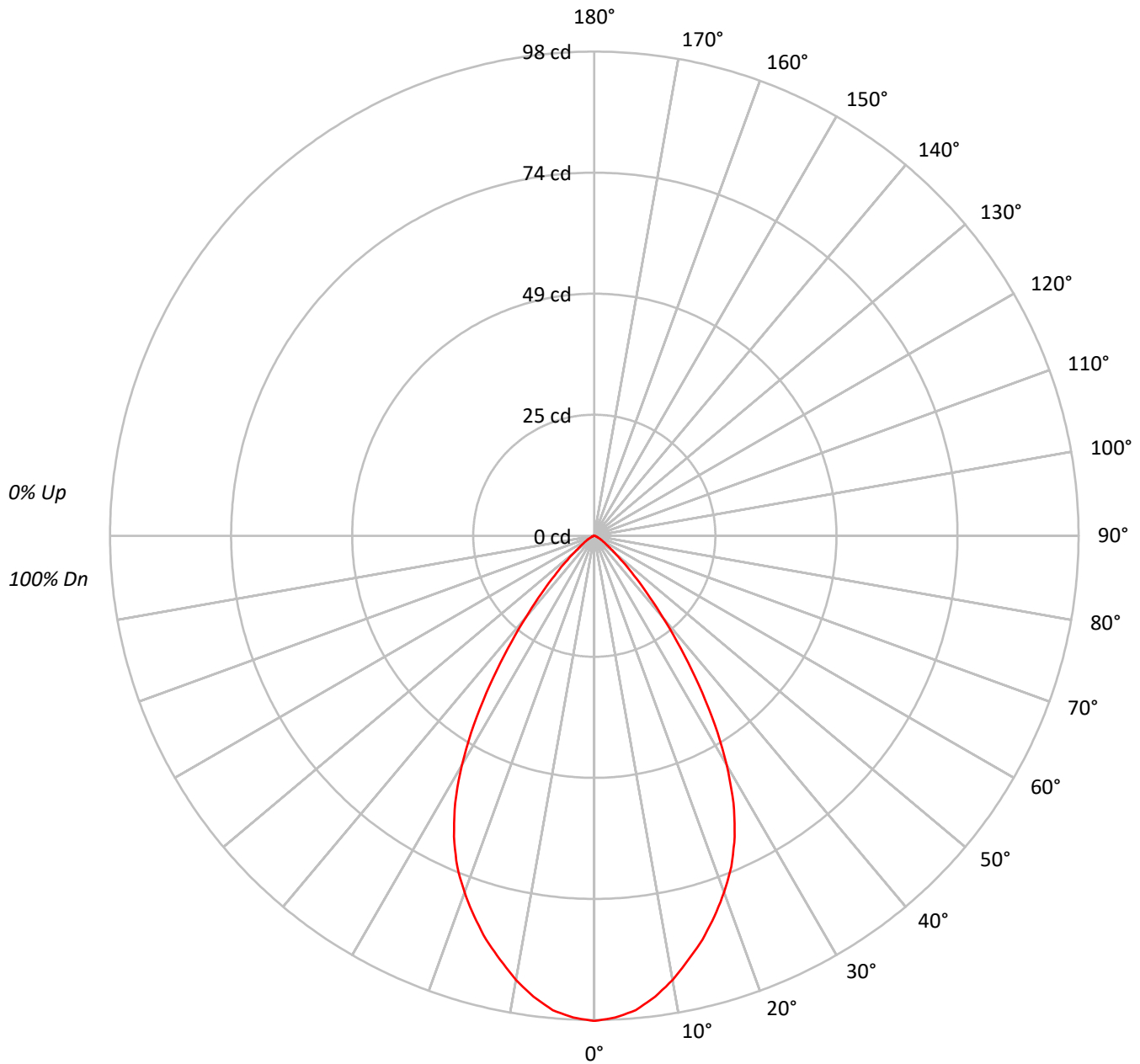
Lumens per Lamp: N/A
Luminaire Lumens: 98.9 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P571678

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM

Luminous Intensity Polar Plot





TEST NUMBER: P571678

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM

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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	87	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	65		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	60	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12064
5°	11888
10°	11390
15°	10760
20°	10041
25°	9109
30°	7604
35°	5519
40°	3448
45°	1981
50°	1032
55°	578
60°	369
65°	203
70°	144
75°	47
80°	71
85°	0



TEST NUMBER: P571678

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	9.1
10°-20°	23.7	24.0
20°-30°	30.5	30.8
30°-40°	22.9	23.2
40°-50°	9.2	9.3
50°-60°	2.6	2.6
60°-70°	0.8	0.8
70°-80°	0.2	0.2
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°	63.2	63.9
0°-40°	86.1	87.0
0°-60°	97.9	99.0
0°-90°	98.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	98.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	98	
5°	96	9
15°	85	24
25°	67	30
35°	37	23
45°	11	9
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P571678

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM

CANDELA DISTRIBUTION (FULL):

	0°
0°	98.2
2.5°	97.6
5°	96.4
7.5°	94.1
10°	91.3
12.5°	87.9
15°	84.6
17.5°	80.8
20°	76.8
22.5°	72.5
25°	67.2
27.5°	61.0
30°	53.6
32.5°	45.4
35°	36.8
37.5°	28.7
40°	21.5
42.5°	15.8
45°	11.4
47.5°	7.8
50°	5.4
52.5°	3.7
55°	2.7
57.5°	1.9
60°	1.5
62.5°	1.0
65°	0.7
67.5°	0.6
70°	0.4
72.5°	0.3
75°	0.1
77.5°	0.1
80°	0.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)