

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: P572210

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

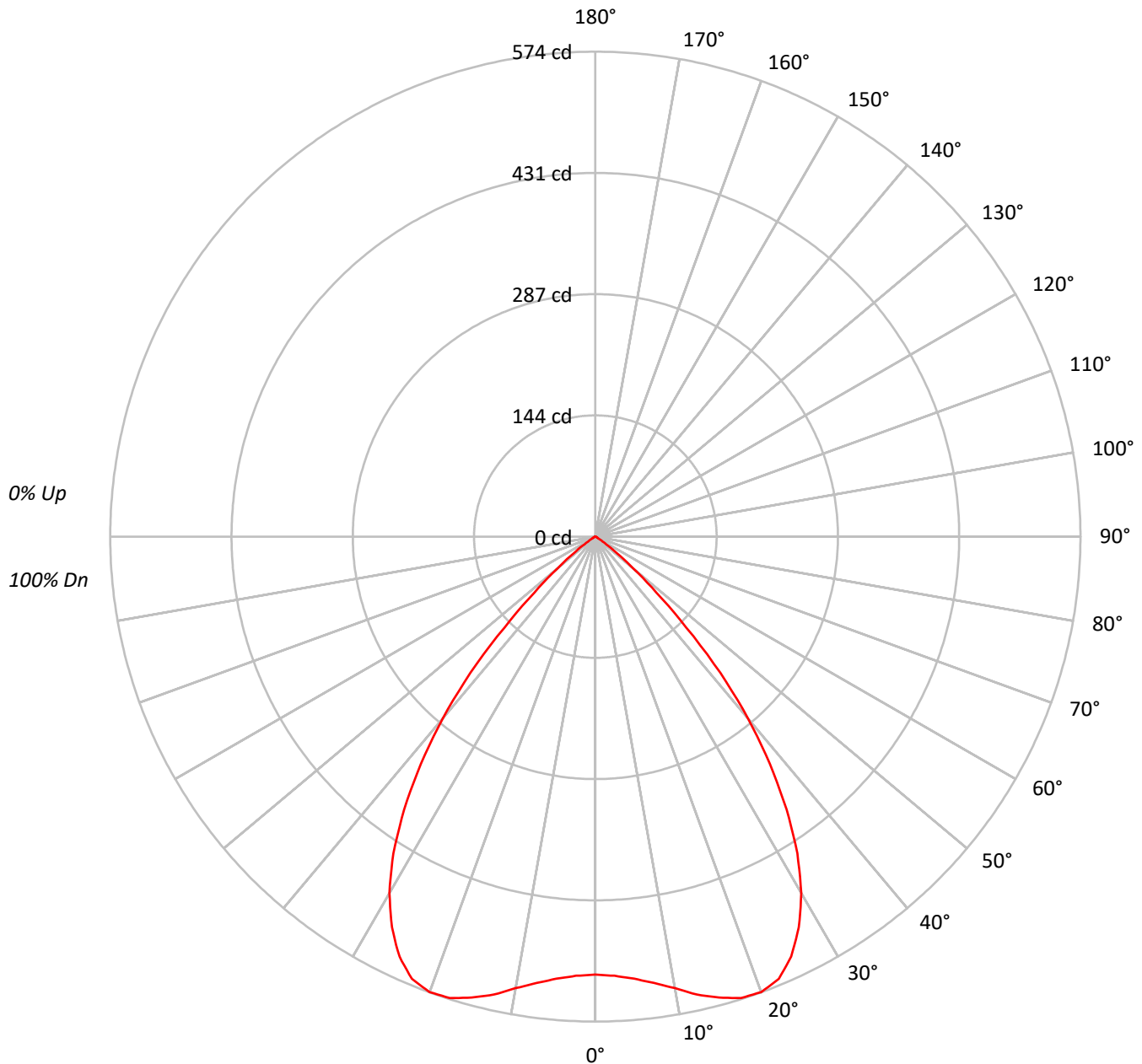
Lumens per Lamp: N/A
Luminaire Lumens: 846.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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: P572210

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P572210

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

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	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63675
5°	64757
10°	67689
15°	71848
20°	74991
25°	74338
30°	69128
35°	59136
40°	45065
45°	26426
50°	11296
55°	3320
60°	958
65°	552
70°	359
75°	475
80°	0
85°	0



TEST NUMBER: P572210

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	6.0
10°-20°	160.0	18.9
20°-30°	249.6	29.5
30°-40°	242.8	28.7
40°-50°	121.3	14.3
50°-60°	18.8	2.2
60°-70°	2.3	0.3
70°-80°	0.7	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°	460.2	54.4
0°-40°	703.0	83.1
0°-60°	843.1	99.7
0°-90°	846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	518	
5°	525	51
15°	565	160
25°	548	250
35°	394	243
45°	152	121
55°	16	19
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P572210

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

CANDELA DISTRIBUTION (FULL):

	0°
0°	518.3
2.5°	520.3
5°	525.1
7.5°	532.9
10°	542.6
12.5°	555.2
15°	564.9
17.5°	572.6
20°	573.6
22.5°	566.8
25°	548.4
27.5°	521.3
30°	487.3
32.5°	444.7
35°	394.3
37.5°	339.1
40°	281.0
42.5°	219.0
45°	152.1
47.5°	97.8
50°	59.1
52.5°	32.0
55°	15.5
57.5°	6.8
60°	3.9
62.5°	2.9
65°	1.9
67.5°	1.9
70°	1.0
72.5°	1.0
75°	1.0
77.5°	0.0
80°	0.0
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)