

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: P572355

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572355
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-90-50 F4X-W-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

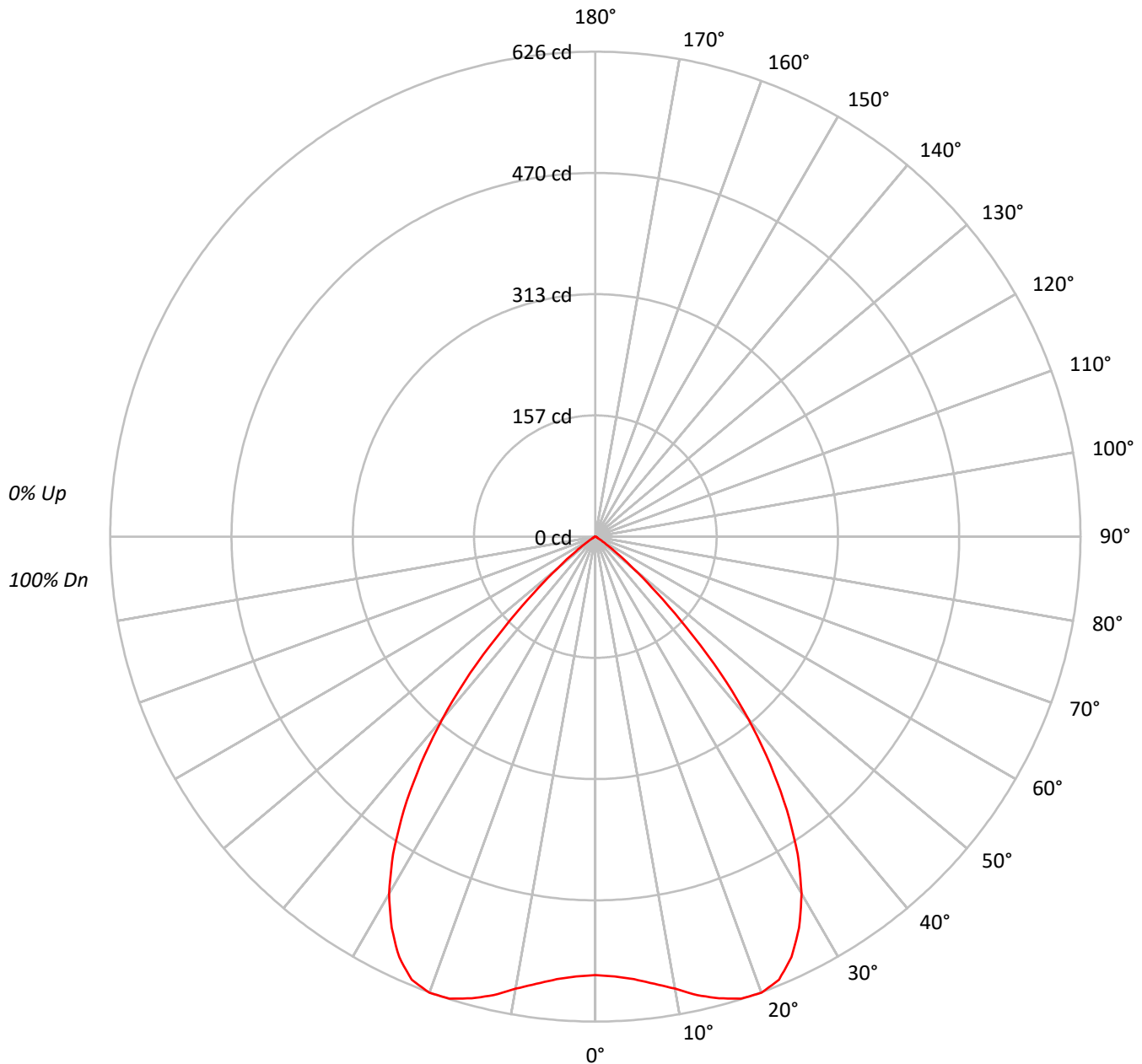
Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P572355

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

Luminous Intensity Polar Plot



TEST NUMBER: P572355

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92						
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84						
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77						
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70						
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58						
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54						
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49						
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45						
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69547
5°	70726
10°	73926
15°	78462
20°	81907
25°	81197
30°	75512
35°	64595
40°	49219
45°	28876
50°	12328
55°	3641
60°	1032
65°	610
70°	395
75°	522
80°	0
85°	0



TEST NUMBER: P572355

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	6.0
10°-20°	174.7	18.9
20°-30°	272.6	29.5
30°-40°	265.2	28.7
40°-50°	132.5	14.3
50°-60°	20.5	2.2
60°-70°	2.5	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°	502.7	54.4
0°-40°	767.9	83.1
0°-60°	920.8	99.7
0°-90°	924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	566	
5°	574	55
15°	617	175
25°	599	273
35°	431	265
45°	166	132
55°	17	21
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P572355

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

CANDELA DISTRIBUTION (FULL):

	0°
0°	566.1
2.5°	568.2
5°	573.5
7.5°	582.0
10°	592.6
12.5°	606.3
15°	616.9
17.5°	625.4
20°	626.5
22.5°	619.1
25°	599.0
27.5°	569.3
30°	532.3
32.5°	485.7
35°	430.7
37.5°	370.4
40°	306.9
42.5°	239.2
45°	166.2
47.5°	106.9
50°	64.5
52.5°	34.9
55°	17.0
57.5°	7.4
60°	4.2
62.5°	3.2
65°	2.1
67.5°	2.1
70°	1.1
72.5°	1.1
75°	1.1
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)