

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: P572004

Luminaire Tested: **FLD4C-08-D010 FEU4C-X-90-27 F4X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572004
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-08-D010 FEU4C-X-90-27 F4X-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

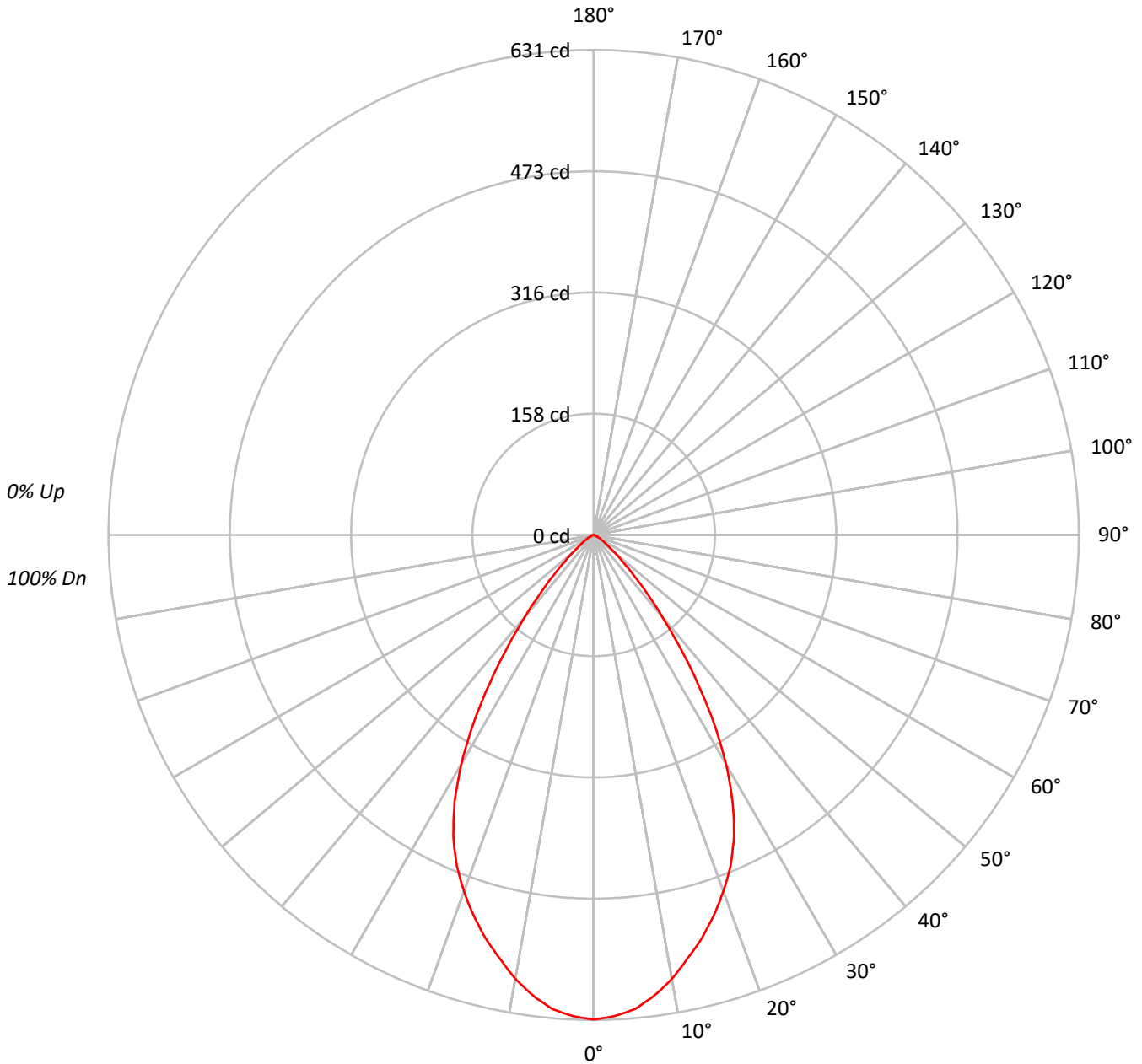
Lumens per Lamp: N/A
Luminaire Lumens: 636.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.87
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

TEST NUMBER: P572004

CATALOG NUMBER: FLD4C-08-D010 FEU4C-X-90-27 F4X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P572004

CATALOG NUMBER: FLD4C-08-D010 FEU4C-X-90-27 F4X-M-X-H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73																			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67																			
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77471
5°	76349
10°	73165
15°	69101
20°	64506
25°	58546
30°	48885
35°	35409
40°	22164
45°	12666
50°	6613
55°	3705
60°	2359
65°	1395
70°	1042
75°	475
80°	707
85°	0



TEST NUMBER: P572004

CATALOG NUMBER: FLD4C-08-D010 FEU4C-X-90-27 F4X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	9.1
10°-20°	152.2	23.9
20°-30°	195.6	30.8
30°-40°	147.2	23.1
40°-50°	59.1	9.3
50°-60°	16.8	2.6
60°-70°	5.3	0.8
70°-80°	1.5	0.2
80°-90°	0.1	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°	405.9	63.8
0°-40°	553.1	87.0
0°-60°	629.0	98.9
0°-90°	636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	631	
5°	619	58
15°	543	152
25°	432	196
35°	236	147
45°	73	59
55°	17	17
65°	5	5
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P572004

CATALOG NUMBER: FLD4C-08-D010 FEU4C-X-90-27 F4X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	630.6
2.5°	626.8
5°	619.1
7.5°	604.7
10°	586.5
12.5°	564.4
15°	543.3
17.5°	519.3
20°	493.4
22.5°	465.6
25°	431.9
27.5°	391.6
30°	344.6
32.5°	291.8
35°	236.1
37.5°	184.3
40°	138.2
42.5°	101.7
45°	72.9
47.5°	49.9
50°	34.6
52.5°	24.0
55°	17.3
57.5°	12.5
60°	9.6
62.5°	6.7
65°	4.8
67.5°	3.8
70°	2.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
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)