

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: P573474

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573474
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-45-D010 FEU4C-X-90-27 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

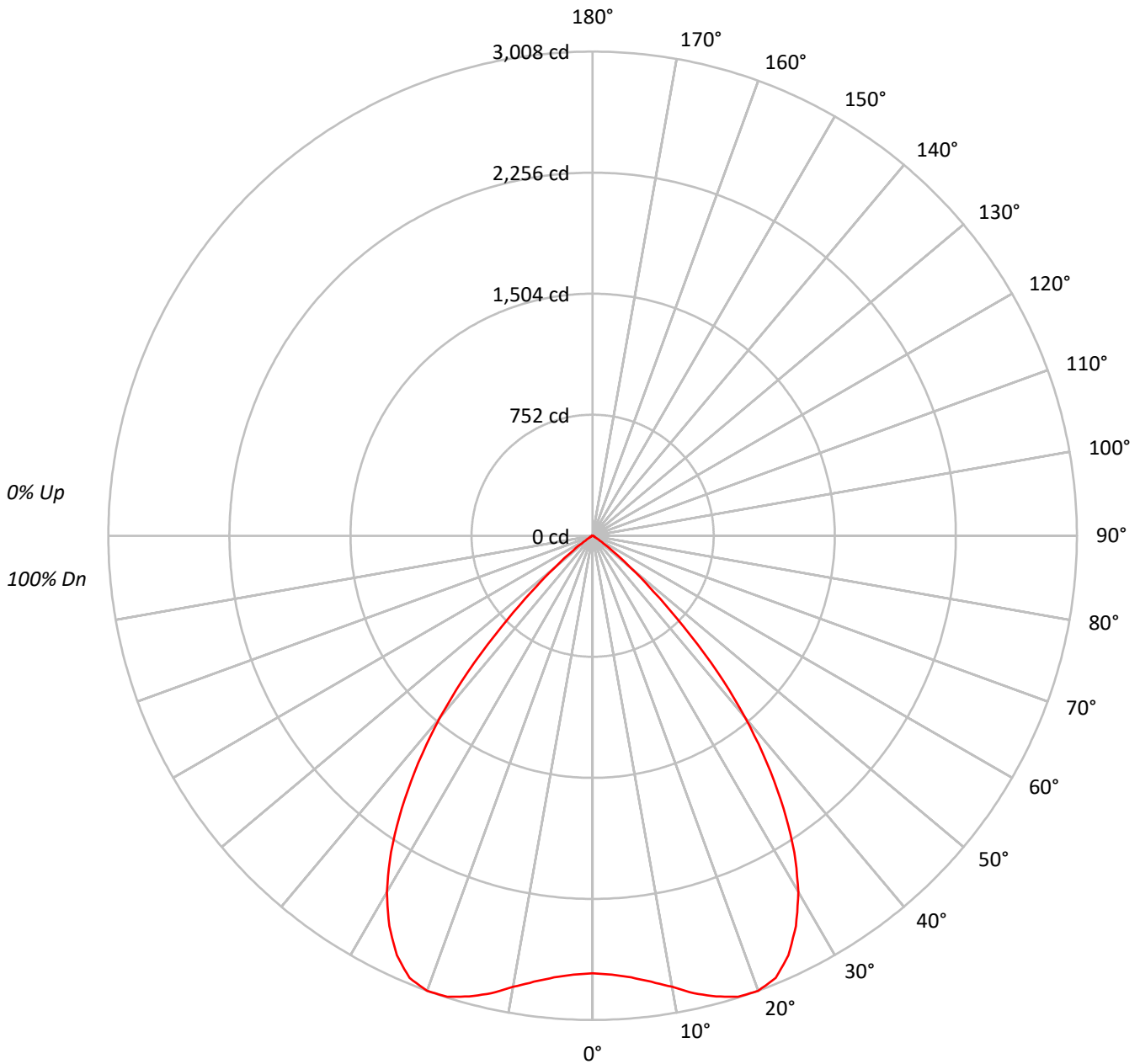
Lumens per Lamp: N/A
Luminaire Lumens: 4437.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P573474

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P573474

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI

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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77															
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70															
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64															
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54															
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	333977
5°	339643
10°	354997
15°	376792
20°	393299
25°	389880
30°	362577
35°	310181
40°	236327
45°	138628
50°	59230
55°	17435
60°	5012
65°	2965
70°	1832
75°	2421
80°	0
85°	0



TEST NUMBER: P573474

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	6.0
10°-20°	839.0	18.9
20°-30°	1308.8	29.5
30°-40°	1273.5	28.7
40°-50°	636.1	14.3
50°-60°	98.5	2.2
60°-70°	11.9	0.3
70°-80°	3.3	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°	2413.7	54.4
0°-40°	3687.2	83.1
0°-60°	4421.7	99.7
0°-90°	4437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2718	
5°	2754	266
15°	2962	839
25°	2876	1309
35°	2068	1273
45°	798	636
55°	81	98
65°	10	12
75°	5	3
85°	0	0
90°	0	



TEST NUMBER: P573474

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2718.5
2.5°	2728.7
5°	2754.1
7.5°	2794.8
10°	2845.7
12.5°	2911.6
15°	2962.5
17.5°	3003.2
20°	3008.3
22.5°	2972.7
25°	2876.2
27.5°	2733.8
30°	2555.9
32.5°	2332.5
35°	2068.2
37.5°	1778.4
40°	1473.6
42.5°	1148.5
45°	797.9
47.5°	513.2
50°	309.9
52.5°	167.7
55°	81.4
57.5°	35.6
60°	20.4
62.5°	15.3
65°	10.2
67.5°	10.2
70°	5.1
72.5°	5.1
75°	5.1
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)