

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: P573597

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-90-50 F4X-N-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

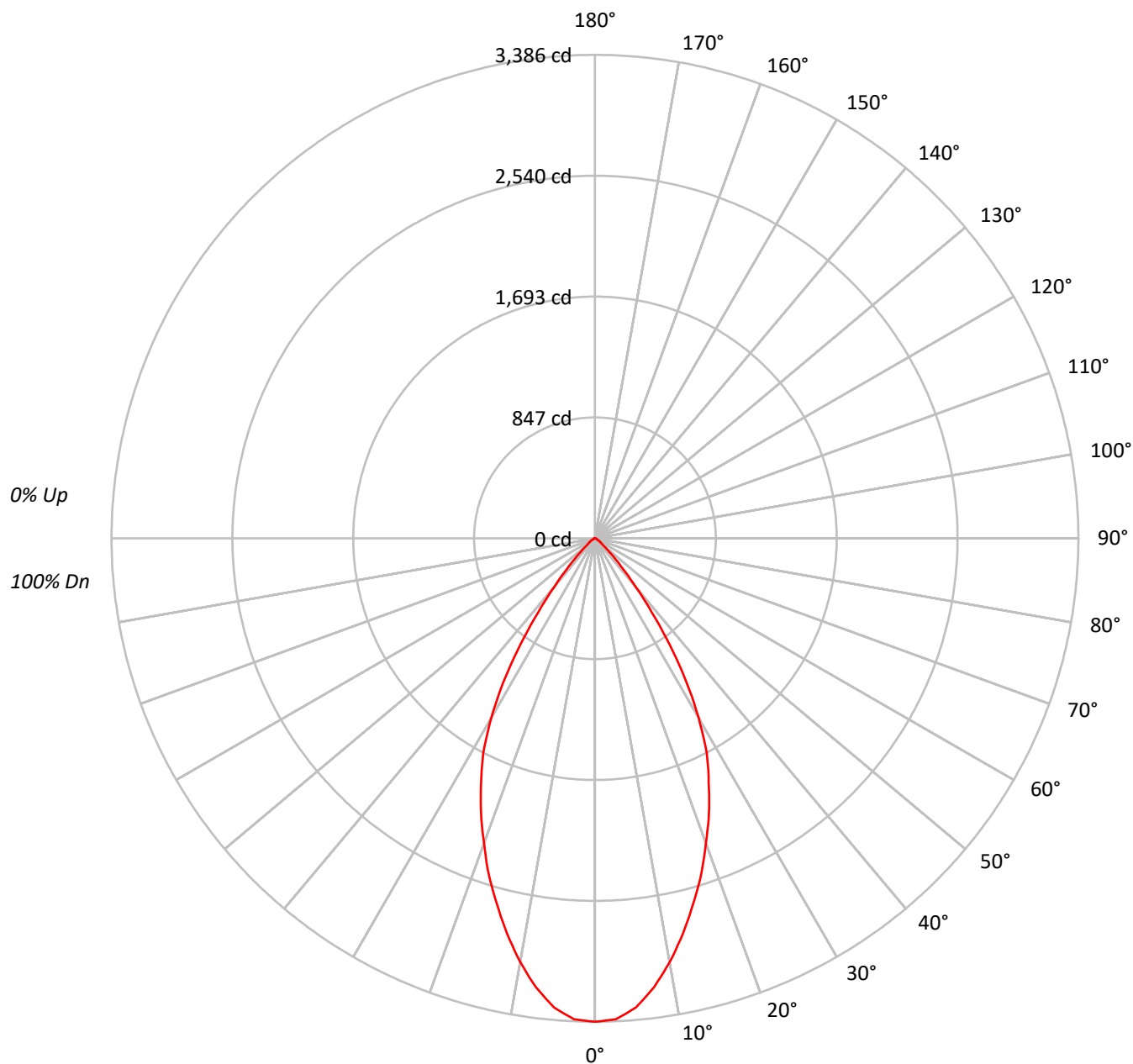
Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P573597

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL86

Luminous Intensity Polar Plot





TEST NUMBER: P573597

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL86

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	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	74	65	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	56	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	416006
5°	406743
10°	376080
15°	337453
20°	297063
25°	255654
30°	205866
35°	137048
40°	71286
45°	32264
50°	14010
55°	9403
60°	6020
65°	4273
70°	3520
75°	2326
80°	0
85°	0



TEST NUMBER: P573597

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL86

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	11.3
10°-20°	741.1	27.5
20°-30°	860.4	31.9
30°-40°	569.8	21.1
40°-50°	159.8	5.9
50°-60°	40.2	1.5
60°-70°	15.1	0.6
70°-80°	5.2	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°	1907.0	70.7
0°-40°	2476.8	91.8
0°-60°	2676.7	99.2
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3386	
5°	3298	306
15°	2653	741
25°	1886	860
35°	914	570
45°	186	160
55°	44	40
65°	15	15
75°	5	5
85°	0	0
90°	0	



TEST NUMBER: P573597

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-H-BL86

CANDELA DISTRIBUTION (FULL):

	0°
0°	3386.2
2.5°	3371.5
5°	3298.2
7.5°	3171.1
10°	3014.7
12.5°	2838.8
15°	2653.2
17.5°	2472.4
20°	2272.2
22.5°	2086.4
25°	1886.0
27.5°	1695.5
30°	1451.2
32.5°	1192.2
35°	913.8
37.5°	654.8
40°	444.5
42.5°	288.2
45°	185.7
47.5°	112.5
50°	73.3
52.5°	53.7
55°	43.9
57.5°	34.3
60°	24.5
62.5°	19.6
65°	14.7
67.5°	9.8
70°	9.8
72.5°	4.9
75°	4.9
77.5°	4.9
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)