

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: P573408

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573408
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-40-D010 FEU4C-X-90-50 F4X-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

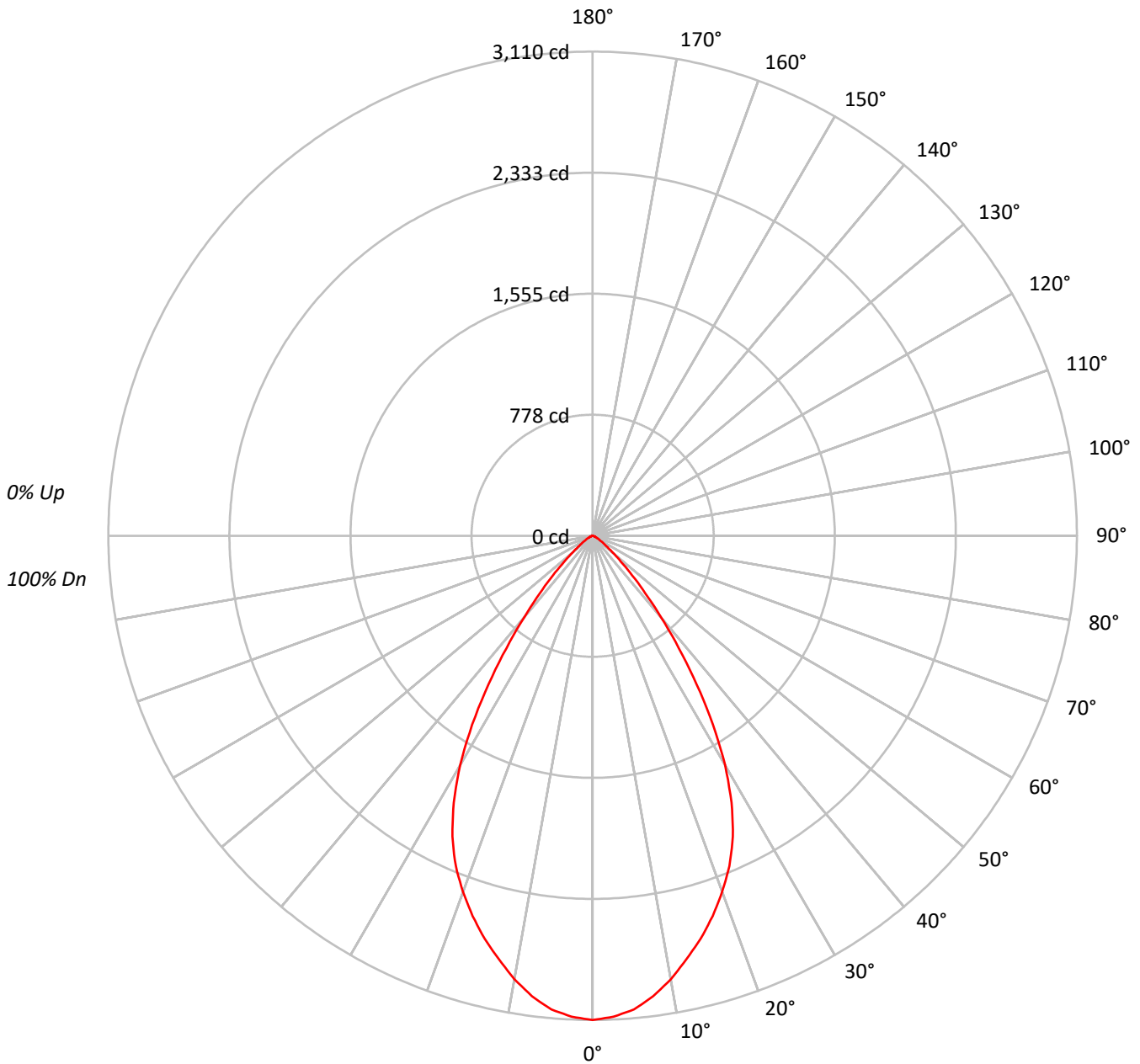
Lumens per Lamp: N/A
Luminaire Lumens: 3137.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P573408

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P573408

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H

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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	382136
5°	376591
10°	360861
15°	340824
20°	318138
25°	288797
30°	241118
35°	174678
40°	109343
45°	62512
50°	32587
55°	18270
60°	11647
65°	6889
70°	5101
75°	2231
80°	3325
85°	0



TEST NUMBER: P573408

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	9.1
10°-20°	750.9	23.9
20°-30°	965.0	30.8
30°-40°	726.0	23.1
40°-50°	291.6	9.3
50°-60°	82.9	2.6
60°-70°	26.3	0.8
70°-80°	7.5	0.2
80°-90°	0.6	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°	2002.1	63.8
0°-40°	2728.1	87.0
0°-60°	3102.6	98.9
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	3054	286
15°	2680	751
25°	2130	965
35°	1165	726
45°	360	292
55°	85	83
65°	24	26
75°	5	7
85°	0	1
90°	0	



TEST NUMBER: P573408

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3110.5
2.5°	3091.6
5°	3053.7
7.5°	2982.6
10°	2892.7
12.5°	2783.9
15°	2679.7
17.5°	2561.3
20°	2433.4
22.5°	2296.3
25°	2130.5
27.5°	1931.6
30°	1699.7
32.5°	1439.2
35°	1164.7
37.5°	909.0
40°	681.8
42.5°	501.8
45°	359.8
47.5°	246.3
50°	170.5
52.5°	118.4
55°	85.3
57.5°	61.6
60°	47.4
62.5°	33.2
65°	23.7
67.5°	18.9
70°	14.2
72.5°	9.5
75°	4.7
77.5°	4.7
80°	4.7
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)