

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: P573774

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

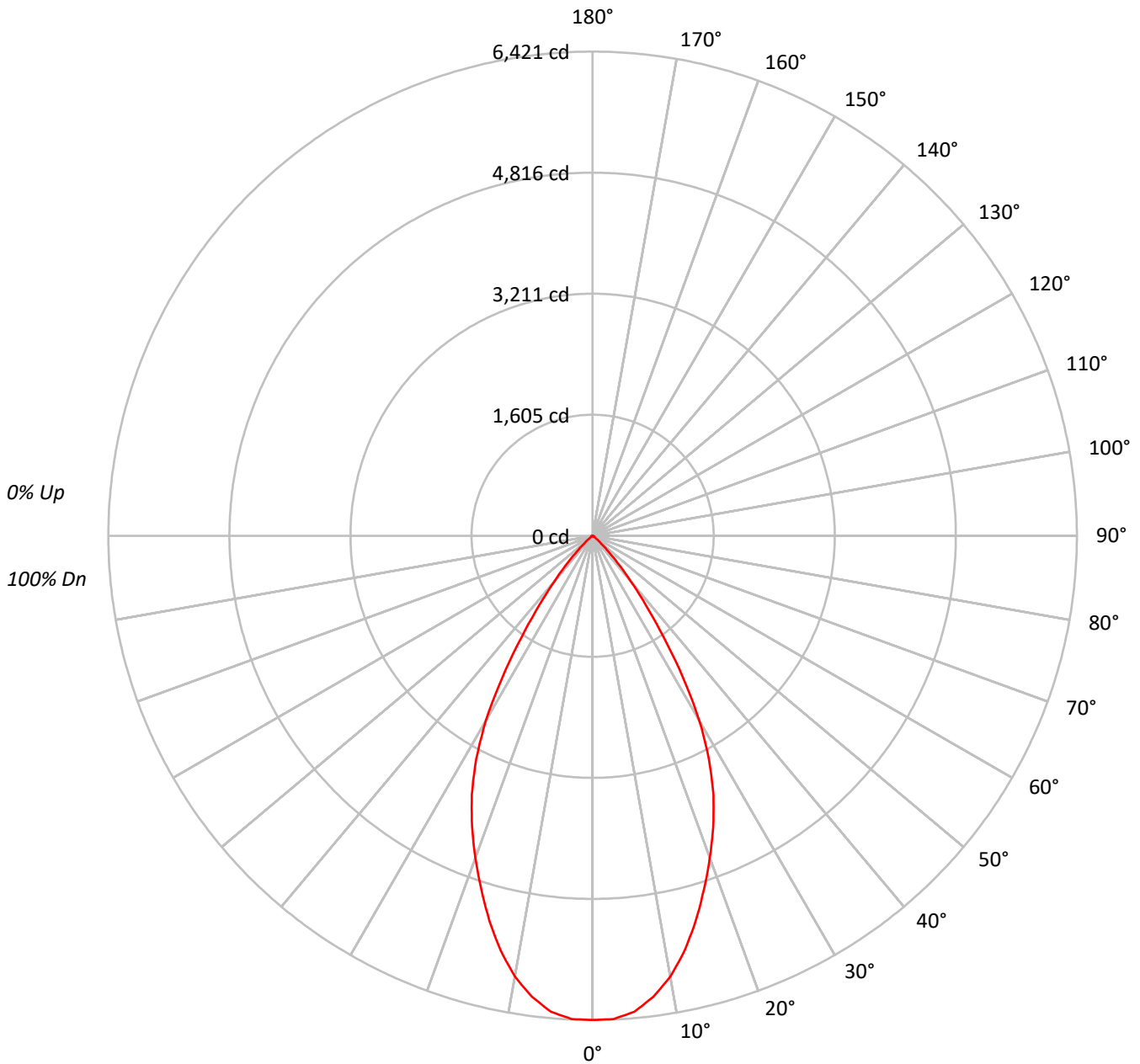
Lumens per Lamp: N/A
Luminaire Lumens: 5131.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573774

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

Luminous Intensity Polar Plot





TEST NUMBER: P573774

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

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	788867
5°	781361
10°	740408
15°	672223
20°	594008
25°	513546
30°	401433
35°	246171
40°	126359
45°	50194
50°	16303
55°	5612
60°	4816
65°	3837
70°	2371
75°	3133
80°	0
85°	0



TEST NUMBER: P573774

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.5	11.5
10°-20°	1472.7	28.7
20°-30°	1712.0	33.4
30°-40°	1048.3	20.4
40°-50°	260.3	5.1
50°-60°	30.4	0.6
60°-70°	11.4	0.2
70°-80°	4.3	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°	3776.2	73.6
0°-40°	4824.6	94.0
0°-60°	5115.3	99.7
0°-90°	5131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5131.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6421	
5°	6336	592
15°	5285	1473
25°	3788	1712
35°	1641	1048
45°	289	260
55°	26	30
65°	13	11
75°	7	4
85°	0	0
90°	0	



TEST NUMBER: P573774

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	6421.2
2.5°	6414.6
5°	6335.9
7.5°	6165.1
10°	5935.2
12.5°	5633.3
15°	5285.3
17.5°	4911.1
20°	4543.5
22.5°	4175.7
25°	3788.5
27.5°	3342.0
30°	2829.8
32.5°	2232.3
35°	1641.4
37.5°	1155.5
40°	787.9
42.5°	492.3
45°	288.9
47.5°	164.2
50°	85.3
52.5°	39.5
55°	26.2
57.5°	19.6
60°	19.6
62.5°	13.2
65°	13.2
67.5°	6.6
70°	6.6
72.5°	6.6
75°	6.6
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)