

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: P573684

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-30 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-90-30 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

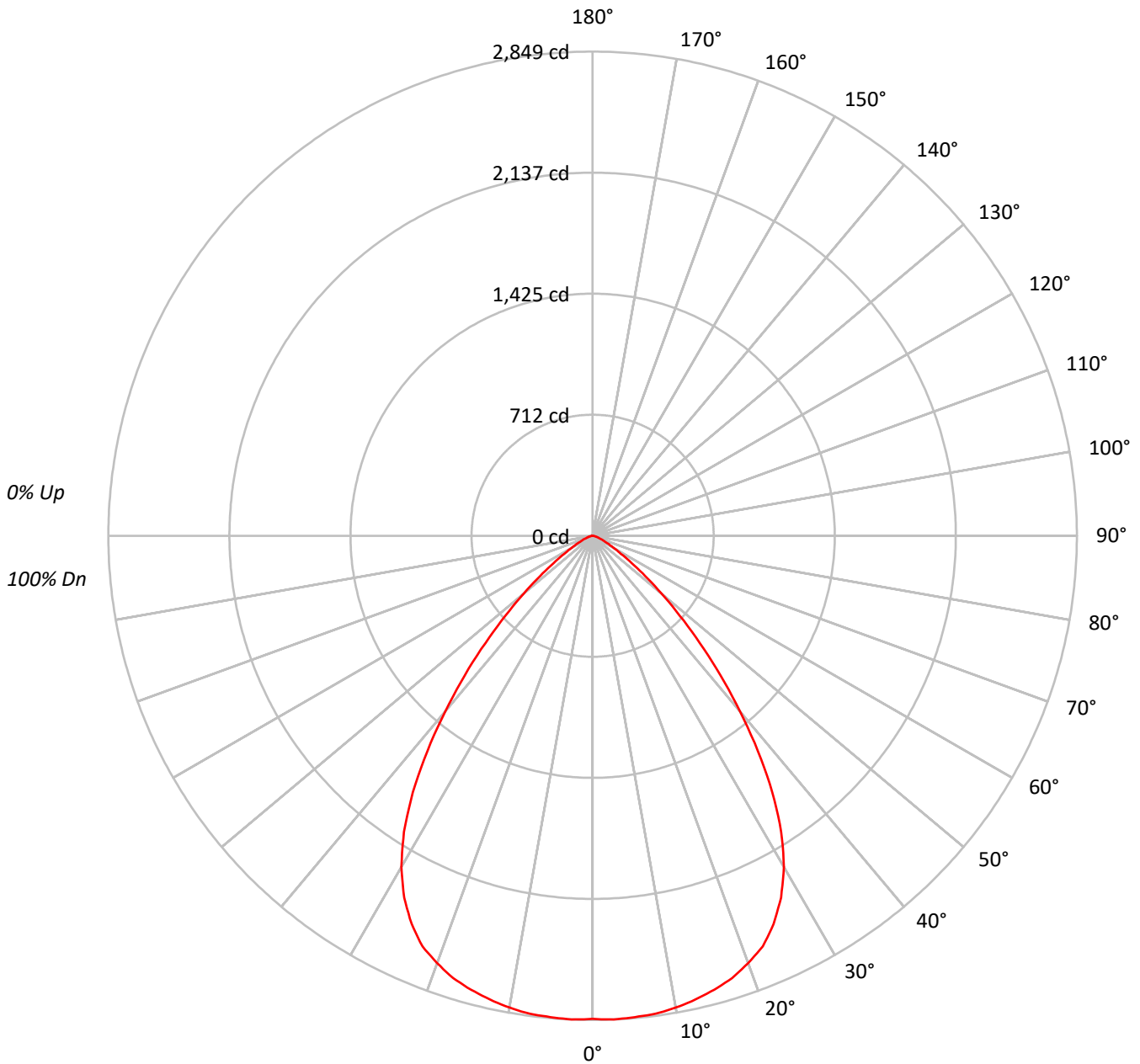
Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573684

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-30 F4X-W-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P573684

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-30 F4X-W-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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	349297
5°	350631
10°	351692
15°	351711
20°	349776
25°	341582
30°	319268
35°	276466
40°	215975
45°	154960
50°	100666
55°	60251
60°	35259
65°	22645
70°	15050
75°	11392
80°	8490
85°	0



TEST NUMBER: P573684

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-30 F4X-W-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	6.1
10°-20°	780.2	17.7
20°-30°	1151.2	26.1
30°-40°	1136.1	25.8
40°-50°	695.2	15.8
50°-60°	266.5	6.0
60°-70°	83.3	1.9
70°-80°	24.5	0.6
80°-90°	3.3	0.1
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°	2202.2	49.9
0°-40°	3338.2	75.7
0°-60°	4300.0	97.5
0°-90°	4411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2843	
5°	2843	271
15°	2765	780
25°	2520	1151
35°	1843	1136
45°	892	695
55°	281	267
65°	78	83
75°	24	24
85°	0	3
90°	0	



TEST NUMBER: P573684

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-30 F4X-W-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	2843.2
2.5°	2849.1
5°	2843.2
7.5°	2837.2
10°	2819.2
12.5°	2795.2
15°	2765.3
17.5°	2729.3
20°	2675.4
22.5°	2615.8
25°	2519.9
27.5°	2400.1
30°	2250.6
32.5°	2065.1
35°	1843.4
37.5°	1598.0
40°	1346.7
42.5°	1113.3
45°	891.9
47.5°	694.2
50°	526.7
52.5°	389.2
55°	281.3
57.5°	197.4
60°	143.5
62.5°	107.8
65°	77.9
67.5°	59.9
70°	41.9
72.5°	30.0
75°	24.0
77.5°	12.0
80°	12.0
82.5°	6.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)