

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: P573024

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573024
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-30-D010 FEU4C-X-90-40 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

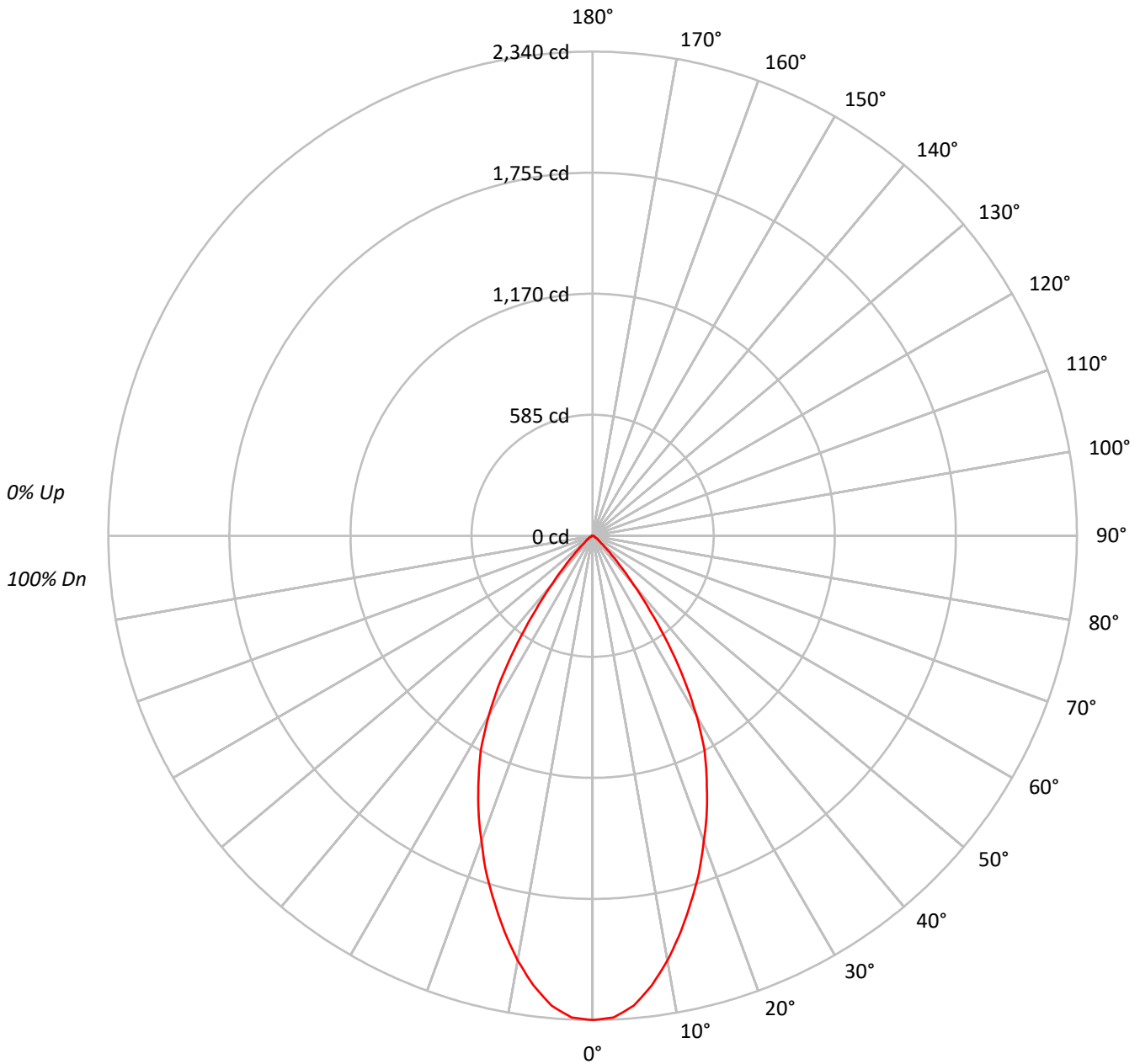
Lumens per Lamp: N/A
Luminaire Lumens: 1864.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P573024

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P573024

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93				93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70				70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65				65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54				54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287514
5°	281114
10°	259926
15°	233236
20°	205311
25°	176694
30°	142285
35°	94725
40°	49267
45°	22308
50°	9671
55°	6490
60°	4152
65°	2965
70°	2443
75°	1614
80°	0
85°	0



TEST NUMBER: P573024

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	11.3
10°-20°	512.2	27.5
20°-30°	594.7	31.9
30°-40°	393.8	21.1
40°-50°	110.4	5.9
50°-60°	27.7	1.5
60°-70°	10.4	0.6
70°-80°	3.6	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°	1318.0	70.7
0°-40°	1711.8	91.8
0°-60°	1850.0	99.2
0°-90°	1864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2340	
5°	2280	211
15°	1834	512
25°	1304	595
35°	632	394
45°	128	110
55°	30	28
65°	10	10
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P573024

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	2340.3
2.5°	2330.2
5°	2279.5
7.5°	2191.6
10°	2083.6
12.5°	1962.0
15°	1833.8
17.5°	1708.8
20°	1570.4
22.5°	1442.0
25°	1303.5
27.5°	1171.9
30°	1003.0
32.5°	824.0
35°	631.6
37.5°	452.6
40°	307.2
42.5°	199.2
45°	128.4
47.5°	77.7
50°	50.6
52.5°	37.1
55°	30.3
57.5°	23.7
60°	16.9
62.5°	13.5
65°	10.2
67.5°	6.8
70°	6.8
72.5°	3.4
75°	3.4
77.5°	3.4
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)