

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: P573311

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573311
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-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

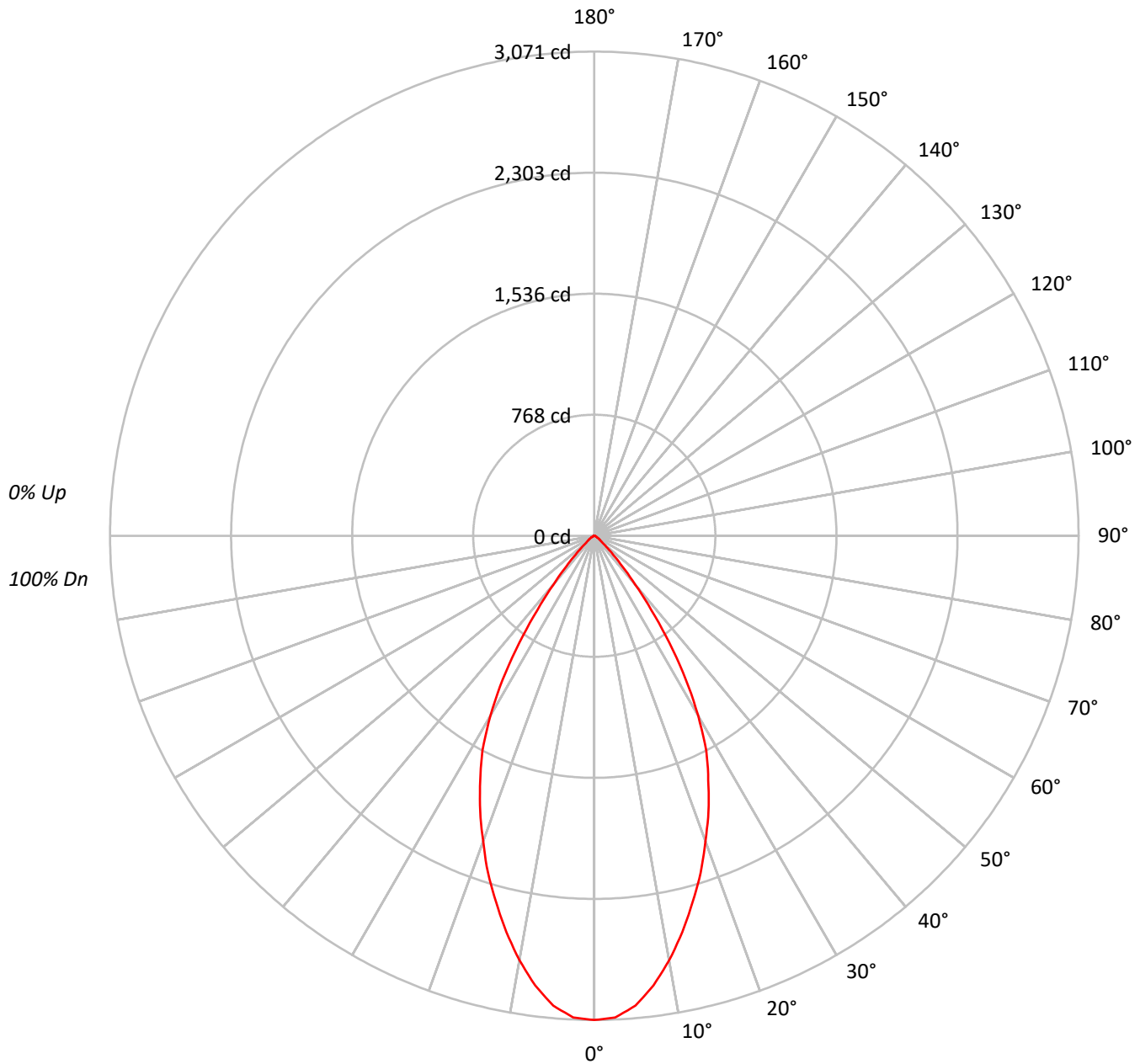
Lumens per Lamp: N/A
Luminaire Lumens: 2446.0 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P573311

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

Luminous Intensity Polar Plot



TEST NUMBER: P573311

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93						
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75						
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70						
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65						
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61						
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58						
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54						
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	377295
5°	368895
10°	341075
15°	306051
20°	269412
25°	231865
30°	186715
35°	124300
40°	64663
45°	29275
50°	12710
55°	8525
60°	5455
65°	3866
70°	3197
75°	2089
80°	0
85°	0



TEST NUMBER: P573311

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	11.3
10°-20°	672.1	27.5
20°-30°	780.3	31.9
30°-40°	516.8	21.1
40°-50°	145.0	5.9
50°-60°	36.4	1.5
60°-70°	13.7	0.6
70°-80°	4.6	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°	1729.5	70.7
0°-40°	2246.3	91.8
0°-60°	2427.7	99.3
0°-90°	2446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2446.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3071	
5°	2991	277
15°	2406	672
25°	1710	780
35°	829	517
45°	168	145
55°	40	36
65°	13	14
75°	4	5
85°	0	0
90°	0	



TEST NUMBER: P573311

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

CANDELA DISTRIBUTION (FULL):

	0°
0°	3071.1
2.5°	3057.7
5°	2991.3
7.5°	2875.9
10°	2734.1
12.5°	2574.6
15°	2406.3
17.5°	2242.3
20°	2060.7
22.5°	1892.2
25°	1710.5
27.5°	1537.8
30°	1316.2
32.5°	1081.3
35°	828.8
37.5°	593.9
40°	403.2
42.5°	261.4
45°	168.5
47.5°	102.0
50°	66.5
52.5°	48.7
55°	39.8
57.5°	31.1
60°	22.2
62.5°	17.8
65°	13.3
67.5°	8.9
70°	8.9
72.5°	4.4
75°	4.4
77.5°	4.4
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)