

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: P573431

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573431
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-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

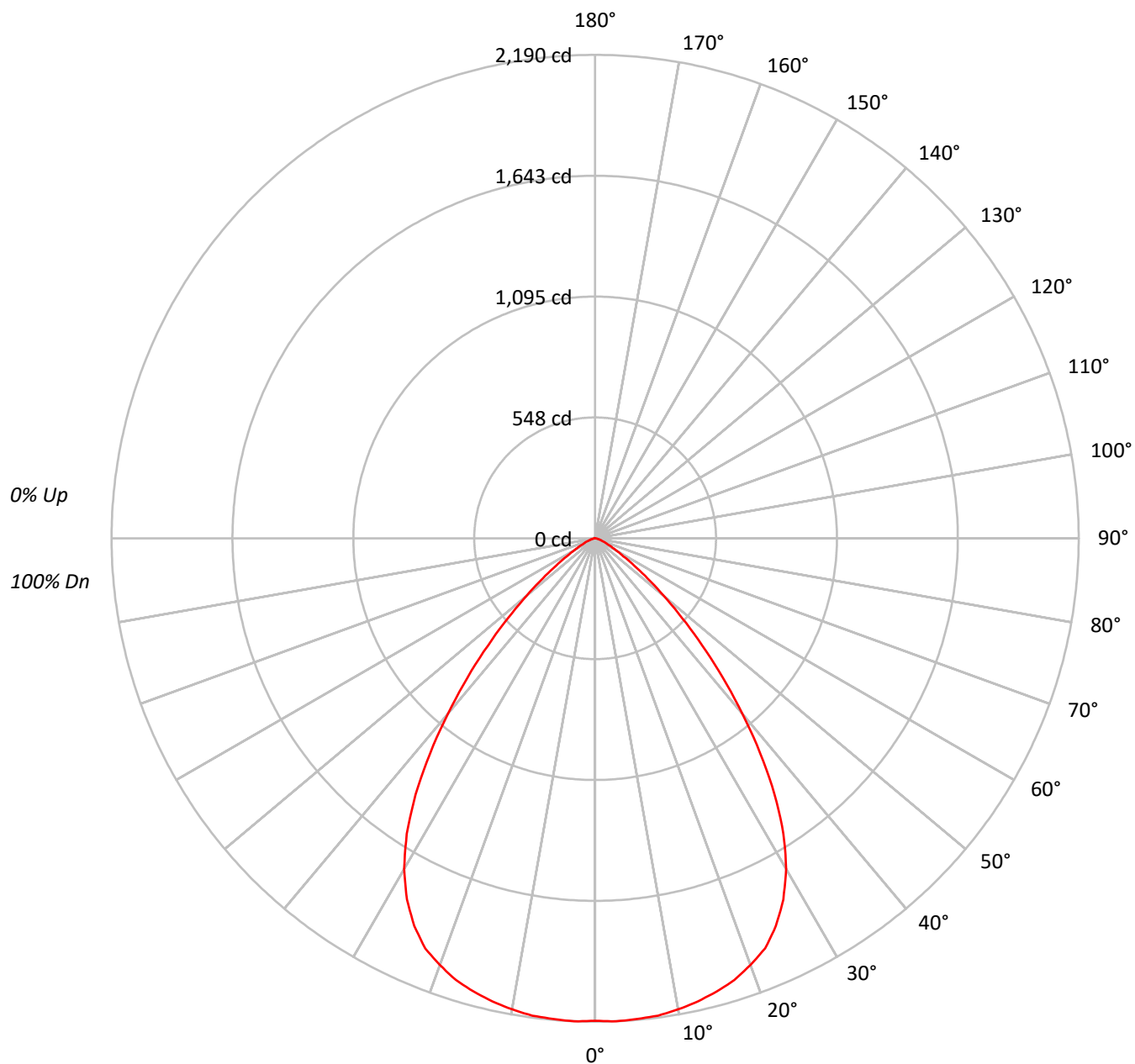
Lumens per Lamp: N/A
Luminaire Lumens: 3391.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P573431

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

Luminous Intensity Polar Plot





TEST NUMBER: P573431

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	268521
5°	269547
10°	270368
15°	270375
20°	268889
25°	262595
30°	245430
35°	212532
40°	166035
45°	119117
50°	77387
55°	46329
60°	27101
65°	17413
70°	11566
75°	8734
80°	6509
85°	0



TEST NUMBER: P573431

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	6.1
10°-20°	599.8	17.7
20°-30°	885.0	26.1
30°-40°	873.4	25.8
40°-50°	534.5	15.8
50°-60°	204.9	6.0
60°-70°	64.1	1.9
70°-80°	18.8	0.6
80°-90°	2.5	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°	1692.9	49.9
0°-40°	2566.3	75.7
0°-60°	3305.7	97.5
0°-90°	3391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2186	
5°	2186	208
15°	2126	600
25°	1937	885
35°	1417	873
45°	686	534
55°	216	205
65°	60	64
75°	18	19
85°	0	2
90°	0	



TEST NUMBER: P573431

CATALOG NUMBER: FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2185.7
2.5°	2190.3
5°	2185.7
7.5°	2181.1
10°	2167.3
12.5°	2148.9
15°	2125.8
17.5°	2098.2
20°	2056.7
22.5°	2010.9
25°	1937.2
27.5°	1845.1
30°	1730.1
32.5°	1587.6
35°	1417.1
37.5°	1228.5
40°	1035.3
42.5°	855.9
45°	685.6
47.5°	533.7
50°	404.9
52.5°	299.2
55°	216.3
57.5°	151.8
60°	110.3
62.5°	82.9
65°	59.9
67.5°	46.1
70°	32.2
72.5°	23.0
75°	18.4
77.5°	9.2
80°	9.2
82.5°	4.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)