

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: P572885

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-50 F4X-N-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-25-D010 FEU4C-X-90-50 F4X-N-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

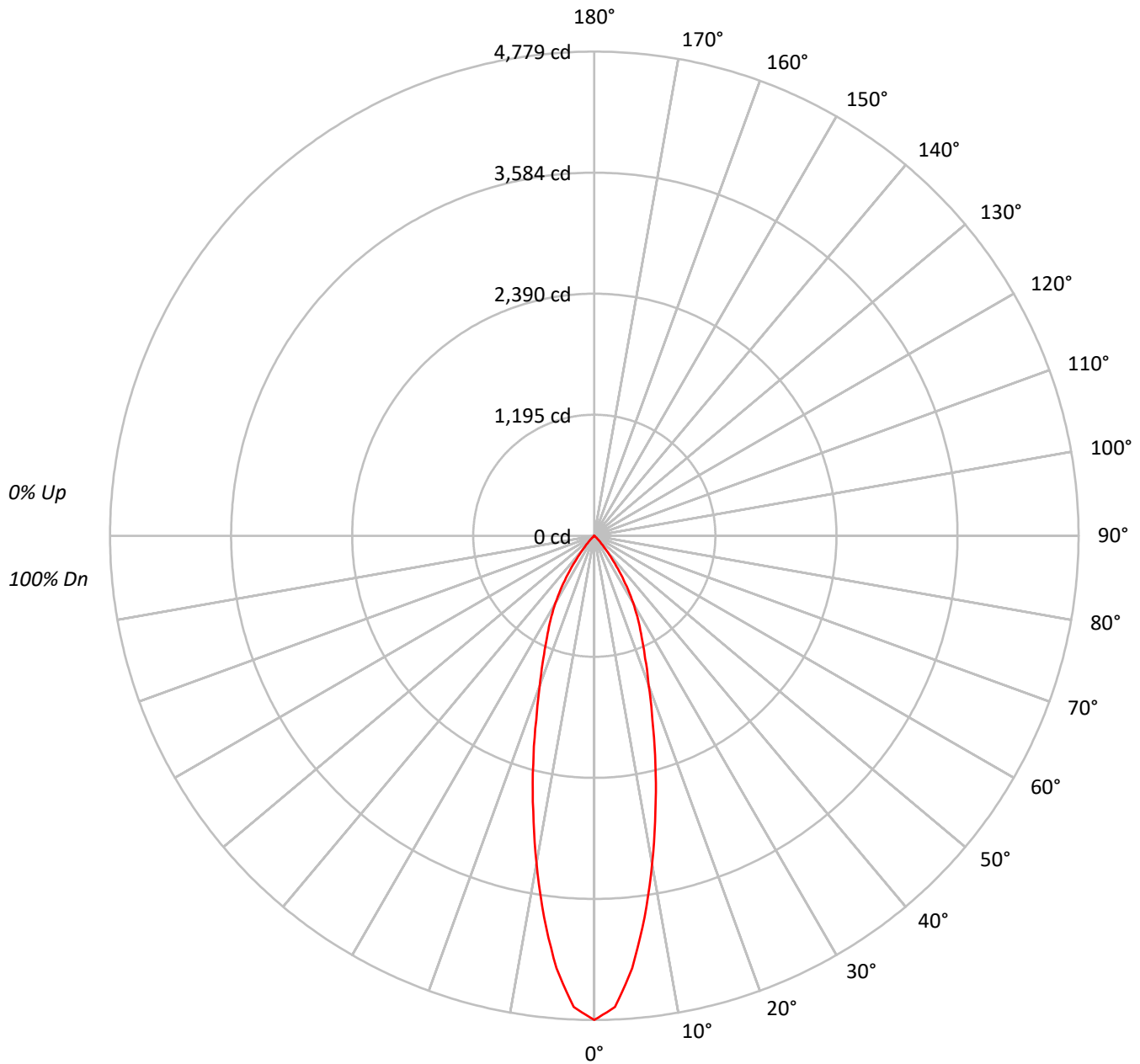
Lumens per Lamp: N/A
Luminaire Lumens: 1857.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P572885

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-50 F4X-N-X-LI-BL89BV

Luminous Intensity Polar Plot



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95						
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90						
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85						
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81						
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77						
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73						
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69						
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66						
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63						
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	587104
5°	528327
10°	409575
15°	296448
20°	205259
25°	149638
30°	108735
35°	64340
40°	27055
45°	8444
50°	1089
55°	621
60°	713
65°	843
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	20.3
10°-20°	644.7	34.7
20°-30°	512.4	27.6
30°-40°	271.3	14.6
40°-50°	46.7	2.5
50°-60°	3.5	0.2
60°-70°	1.8	0.1
70°-80°	0.0	0.0
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°	1533.8	82.6
0°-40°	1805.0	97.2
0°-60°	1855.3	99.9
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4779	
5°	4284	377
15°	2331	645
25°	1104	512
35°	429	271
45°	49	47
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4778.9
2.5°	4655.8
5°	4284.1
7.5°	3798.0
10°	3283.2
12.5°	2785.5
15°	2330.8
17.5°	1907.5
20°	1570.0
22.5°	1312.6
25°	1103.9
27.5°	935.2
30°	766.5
32.5°	594.9
35°	429.0
37.5°	283.2
40°	168.7
42.5°	97.3
45°	48.6
47.5°	17.2
50°	5.7
52.5°	5.7
55°	2.9
57.5°	2.9
60°	2.9
62.5°	2.9
65°	2.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)