

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: P572236

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572236
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-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

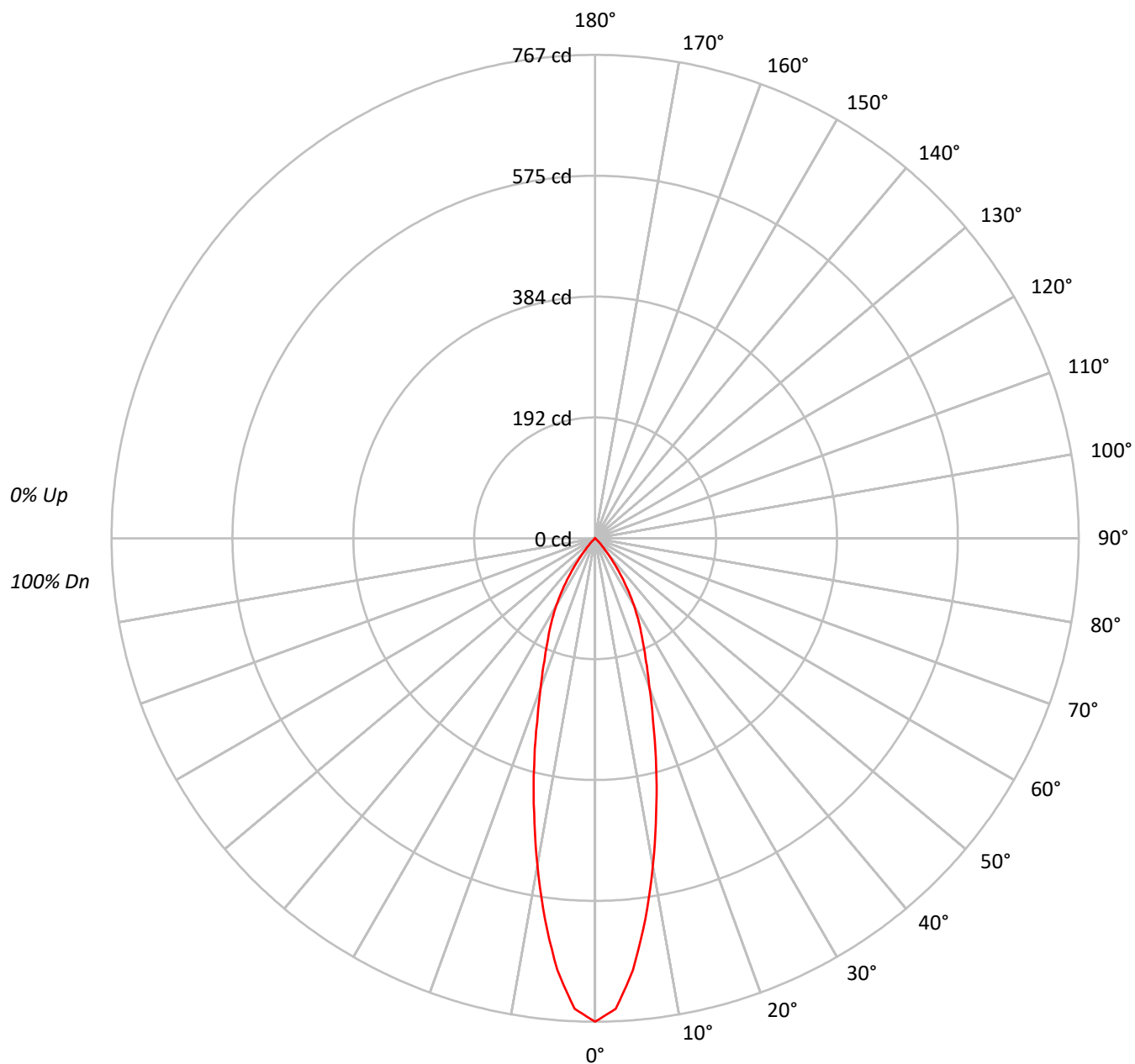
Lumens per Lamp: N/A
Luminaire Lumens: 298.0 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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: P572236

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM

Luminous Intensity Polar Plot



TEST NUMBER: P572236

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM

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	91	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°	94216
5°	84784
10°	65730
15°	47568
20°	32933
25°	24020
30°	17449
35°	10318
40°	4346
45°	1355
50°	172
55°	107
60°	123
65°	145
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P572236

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	20.3
10°-20°	103.5	34.7
20°-30°	82.2	27.6
30°-40°	43.5	14.6
40°-50°	7.5	2.5
50°-60°	0.6	0.2
60°-70°	0.3	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°	246.1	82.6
0°-40°	289.7	97.2
0°-60°	297.7	99.9
0°-90°	298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	688	60
15°	374	103
25°	177	82
35°	69	44
45°	8	8
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P572236

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-30 F4X-N-X-LI-BL89AM

CANDELA DISTRIBUTION (FULL):

	0°
0°	766.9
2.5°	747.1
5°	687.5
7.5°	609.5
10°	526.9
12.5°	447.0
15°	374.0
17.5°	306.1
20°	251.9
22.5°	210.6
25°	177.2
27.5°	150.1
30°	123.0
32.5°	95.5
35°	68.8
37.5°	45.4
40°	27.1
42.5°	15.6
45°	7.8
47.5°	2.8
50°	0.9
52.5°	0.9
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
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



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)