

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: P573568

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573568
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-45-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

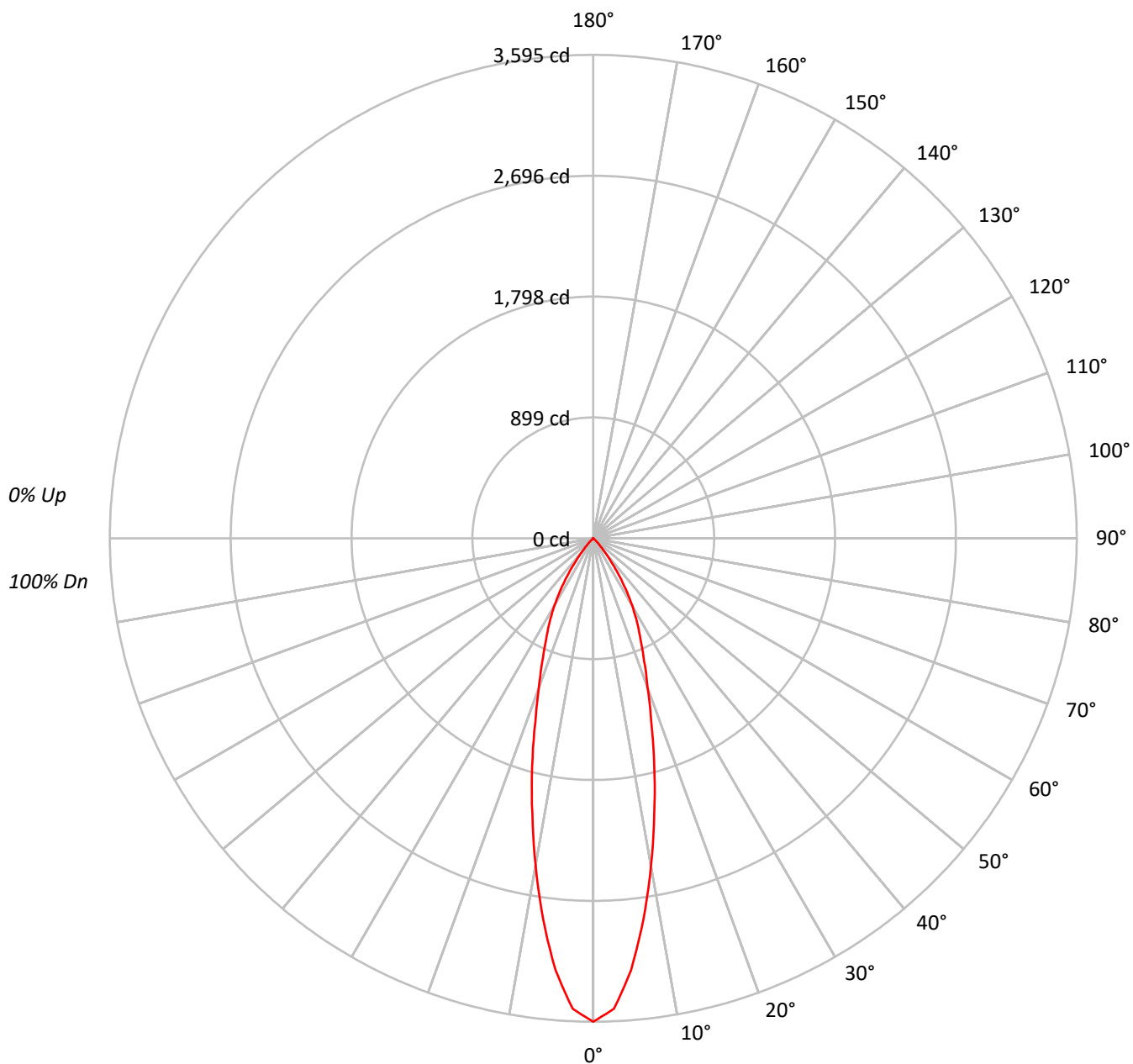
Lumens per Lamp: N/A
Luminaire Lumens: 1397.0 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P573568

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89AM

Luminous Intensity Polar Plot



TEST NUMBER: P573568

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 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	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°	441671
5°	397457
10°	308117
15°	223010
20°	154415
25°	112577
30°	81796
35°	48397
40°	20351
45°	6342
50°	822
55°	471
60°	541
65°	640
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P573568

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89AM

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	20.3
10°-20°	485.0	34.7
20°-30°	385.5	27.6
30°-40°	204.1	14.6
40°-50°	35.1	2.5
50°-60°	2.7	0.2
60°-70°	1.3	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°	1153.8	82.6
0°-40°	1357.9	97.2
0°-60°	1395.7	99.9
0°-90°	1397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3595	
5°	3223	283
15°	1753	485
25°	830	385
35°	323	204
45°	36	35
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P573568

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-N-X-LI-BL89AM

CANDELA DISTRIBUTION (FULL):

	0°
0°	3595.1
2.5°	3502.5
5°	3222.9
7.5°	2857.2
10°	2469.9
12.5°	2095.5
15°	1753.4
17.5°	1435.0
20°	1181.1
22.5°	987.5
25°	830.5
27.5°	703.5
30°	576.6
32.5°	447.5
35°	322.7
37.5°	213.0
40°	126.9
42.5°	73.2
45°	36.5
47.5°	12.9
50°	4.3
52.5°	4.3
55°	2.2
57.5°	2.2
60°	2.2
62.5°	2.2
65°	2.2
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)