

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: P572753

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
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-90-27 F4X-W-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

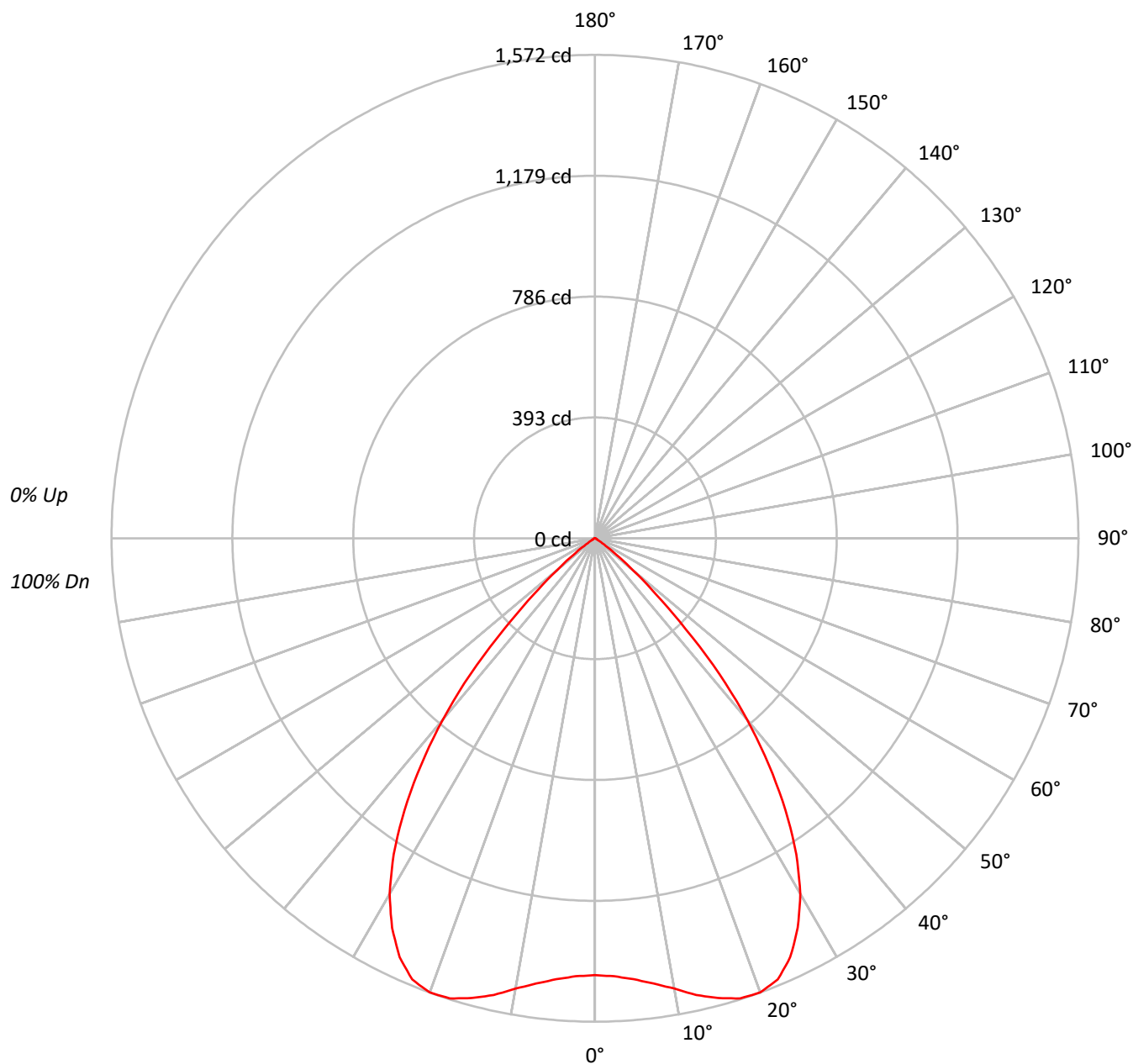
Lumens per Lamp: N/A
Luminaire Lumens: 2318.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P572753

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-LI-BL89BV

Luminous Intensity Polar Plot



TEST NUMBER: P572753

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-LI-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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92						
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84						
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77						
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70						
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58						
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54						
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49						
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45						
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	174477
5°	177437
10°	185464
15°	196848
20°	205468
25°	203683
30°	189424
35°	162050
40°	123472
45°	72415
50°	30943
55°	9103
60°	2604
65°	1541
70°	970
75°	1282
80°	0
85°	0



TEST NUMBER: P572753

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-LI-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	6.0
10°-20°	438.3	18.9
20°-30°	683.8	29.5
30°-40°	665.3	28.7
40°-50°	332.3	14.3
50°-60°	51.4	2.2
60°-70°	6.2	0.3
70°-80°	1.8	0.1
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°	1261.0	54.4
0°-40°	1926.3	83.1
0°-60°	2310.0	99.7
0°-90°	2318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1420	
5°	1439	139
15°	1548	438
25°	1503	684
35°	1080	665
45°	417	332
55°	42	51
65°	5	6
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P572753

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-LI-BL89BV

CANDELA DISTRIBUTION (FULL):

	0°
0°	1420.2
2.5°	1425.5
5°	1438.8
7.5°	1460.1
10°	1486.7
12.5°	1521.1
15°	1547.7
17.5°	1569.0
20°	1571.6
22.5°	1553.0
25°	1502.6
27.5°	1428.2
30°	1335.3
32.5°	1218.6
35°	1080.5
37.5°	929.1
40°	769.9
42.5°	600.0
45°	416.8
47.5°	268.1
50°	161.9
52.5°	87.6
55°	42.5
57.5°	18.6
60°	10.6
62.5°	8.0
65°	5.3
67.5°	5.3
70°	2.7
72.5°	2.7
75°	2.7
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)