

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: P572919

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572919
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-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

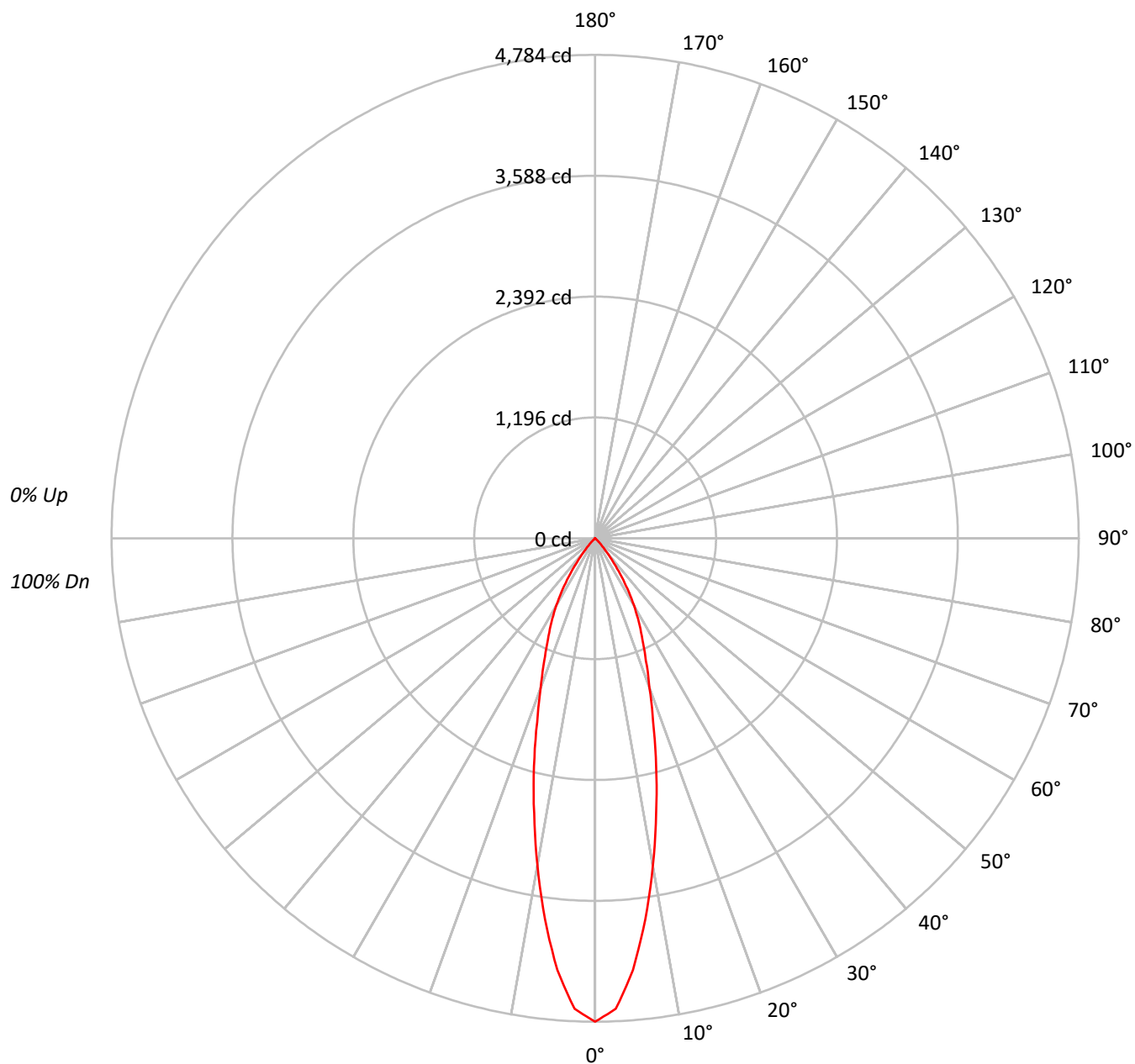
Lumens per Lamp: N/A
Luminaire Lumens: 1859.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P572919

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86

Luminous Intensity Polar Plot



TEST NUMBER: P572919

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86

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°	587731
5°	528894
10°	410012
15°	296766
20°	205481
25°	149801
30°	108848
35°	64415
40°	27087
45°	8444
50°	1089
55°	621
60°	713
65°	843
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P572919

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	20.3
10°-20°	645.4	34.7
20°-30°	513.0	27.6
30°-40°	271.6	14.6
40°-50°	46.8	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°	1535.4	82.6
0°-40°	1807.0	97.2
0°-60°	1857.3	99.9
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4784	
5°	4289	377
15°	2333	645
25°	1105	513
35°	430	272
45°	49	47
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P572919

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86

CANDELA DISTRIBUTION (FULL):

	0°
0°	4784.0
2.5°	4660.8
5°	4288.7
7.5°	3802.0
10°	3286.7
12.5°	2788.5
15°	2333.3
17.5°	1909.6
20°	1571.7
22.5°	1314.1
25°	1105.1
27.5°	936.2
30°	767.3
32.5°	595.5
35°	429.5
37.5°	283.5
40°	168.9
42.5°	97.4
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



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)