

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: P572726

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-M-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

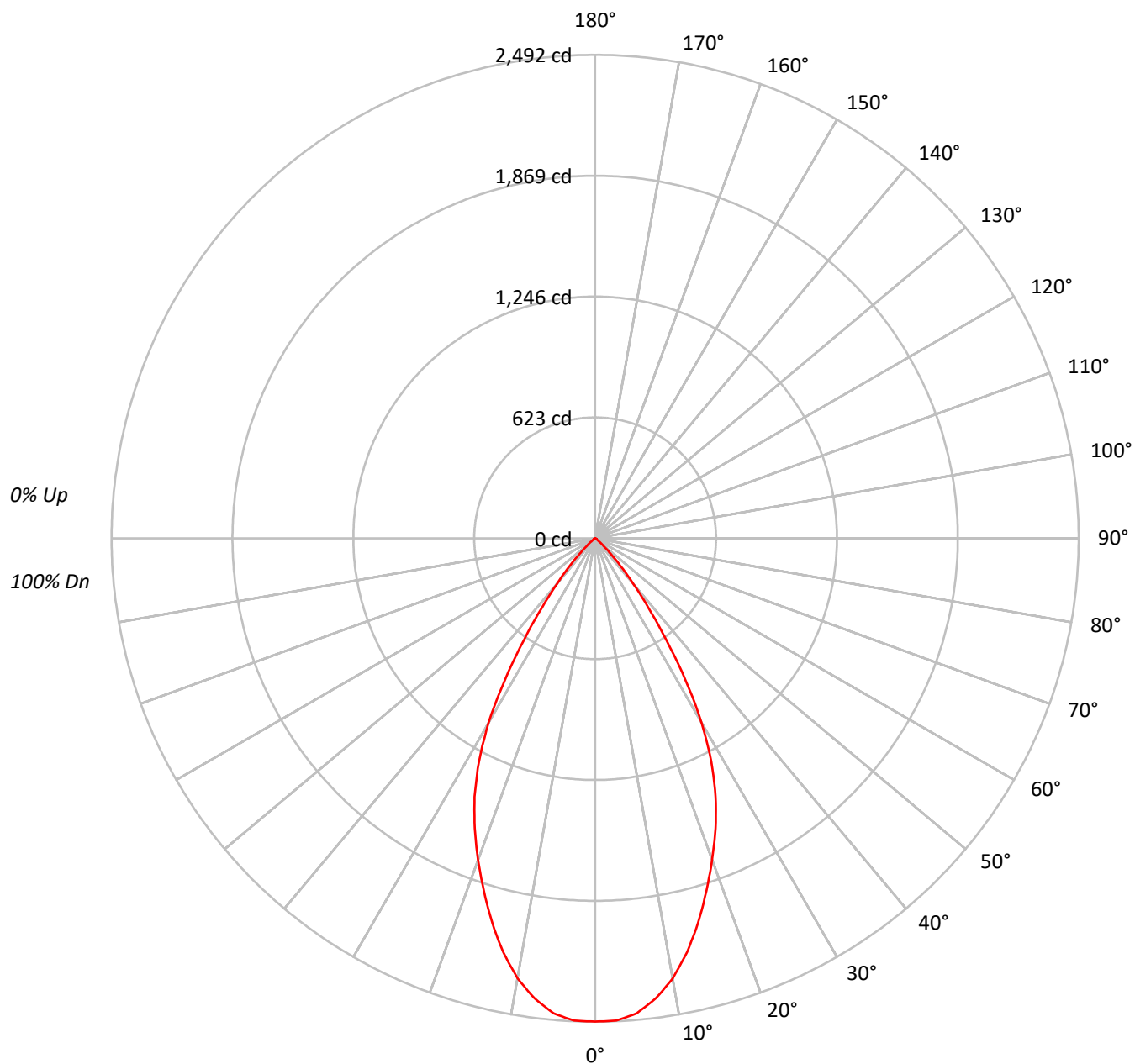
Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P572726

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85

Luminous Intensity Polar Plot



TEST NUMBER: P572726

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85

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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306102
5°	303189
10°	287309
15°	260848
20°	230491
25°	199264
30°	155761
35°	95520
40°	49026
45°	19476
50°	6326
55°	2185
60°	1867
65°	1483
70°	934
75°	1234
80°	0
85°	0



TEST NUMBER: P572726

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	11.5
10°-20°	571.5	28.7
20°-30°	664.3	33.4
30°-40°	406.8	20.4
40°-50°	101.0	5.1
50°-60°	11.8	0.6
60°-70°	4.4	0.2
70°-80°	1.7	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°	1465.3	73.6
0°-40°	1872.1	94.0
0°-60°	1984.9	99.7
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2492	
5°	2458	230
15°	2051	571
25°	1470	664
35°	637	407
45°	112	101
55°	10	12
65°	5	4
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P572726

CATALOG NUMBER: FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL85

CANDELA DISTRIBUTION (FULL):

0°	
0°	2491.6
2.5°	2489.1
5°	2458.5
7.5°	2392.3
10°	2303.1
12.5°	2185.9
15°	2050.9
17.5°	1905.7
20°	1763.0
22.5°	1620.3
25°	1470.0
27.5°	1296.8
30°	1098.0
32.5°	866.2
35°	636.9
37.5°	448.4
40°	305.7
42.5°	191.0
45°	112.1
47.5°	63.7
50°	33.1
52.5°	15.3
55°	10.2
57.5°	7.6
60°	7.6
62.5°	5.1
65°	5.1
67.5°	2.6
70°	2.6
72.5°	2.6
75°	2.6
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)