

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: P573177

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

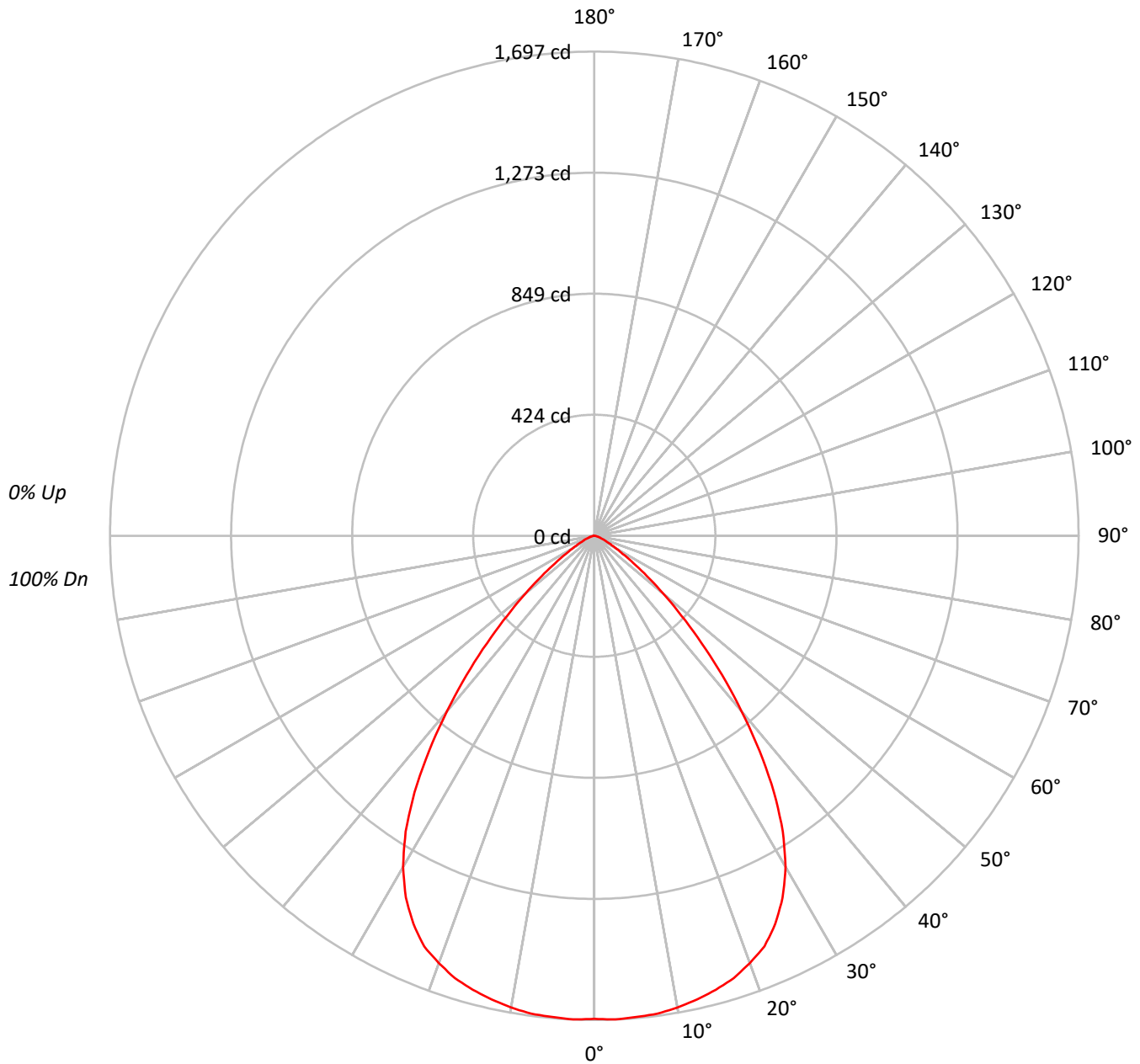
Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: P573177

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-BL86

Luminous Intensity Polar Plot





TEST NUMBER: P573177

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82						
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74						
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67						
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61						
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55						
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50						
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46						
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43						
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	208028
5°	208822
10°	209453
15°	209465
20°	208305
25°	203426
30°	190134
35°	164659
40°	128620
45°	92291
50°	59956
55°	35877
60°	21008
65°	13488
70°	8980
75°	6788
80°	5023
85°	0



TEST NUMBER: P573177

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-BL86

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	6.1
10°-20°	464.6	17.7
20°-30°	685.6	26.1
30°-40°	676.6	25.8
40°-50°	414.0	15.8
50°-60°	158.7	6.0
60°-70°	49.6	1.9
70°-80°	14.5	0.6
80°-90°	1.9	0.1
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°	1311.5	49.9
0°-40°	1988.1	75.7
0°-60°	2560.9	97.5
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1693	
5°	1693	161
15°	1647	465
25°	1501	686
35°	1098	677
45°	531	414
55°	168	159
65°	46	50
75°	14	15
85°	0	2
90°	0	



TEST NUMBER: P573177

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-35 F4X-W-X-H-BL86

CANDELA DISTRIBUTION (FULL):

0°	
0°	1693.3
2.5°	1696.8
5°	1693.3
7.5°	1689.7
10°	1679.0
12.5°	1664.7
15°	1646.9
17.5°	1625.5
20°	1593.3
22.5°	1557.8
25°	1500.7
27.5°	1429.4
30°	1340.3
32.5°	1229.9
35°	1097.9
37.5°	951.7
40°	802.0
42.5°	663.0
45°	531.2
47.5°	413.4
50°	313.7
52.5°	231.8
55°	167.5
57.5°	117.6
60°	85.5
62.5°	64.2
65°	46.4
67.5°	35.7
70°	25.0
72.5°	17.8
75°	14.3
77.5°	7.1
80°	7.1
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)