

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: P573248

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573248
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-90-50 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

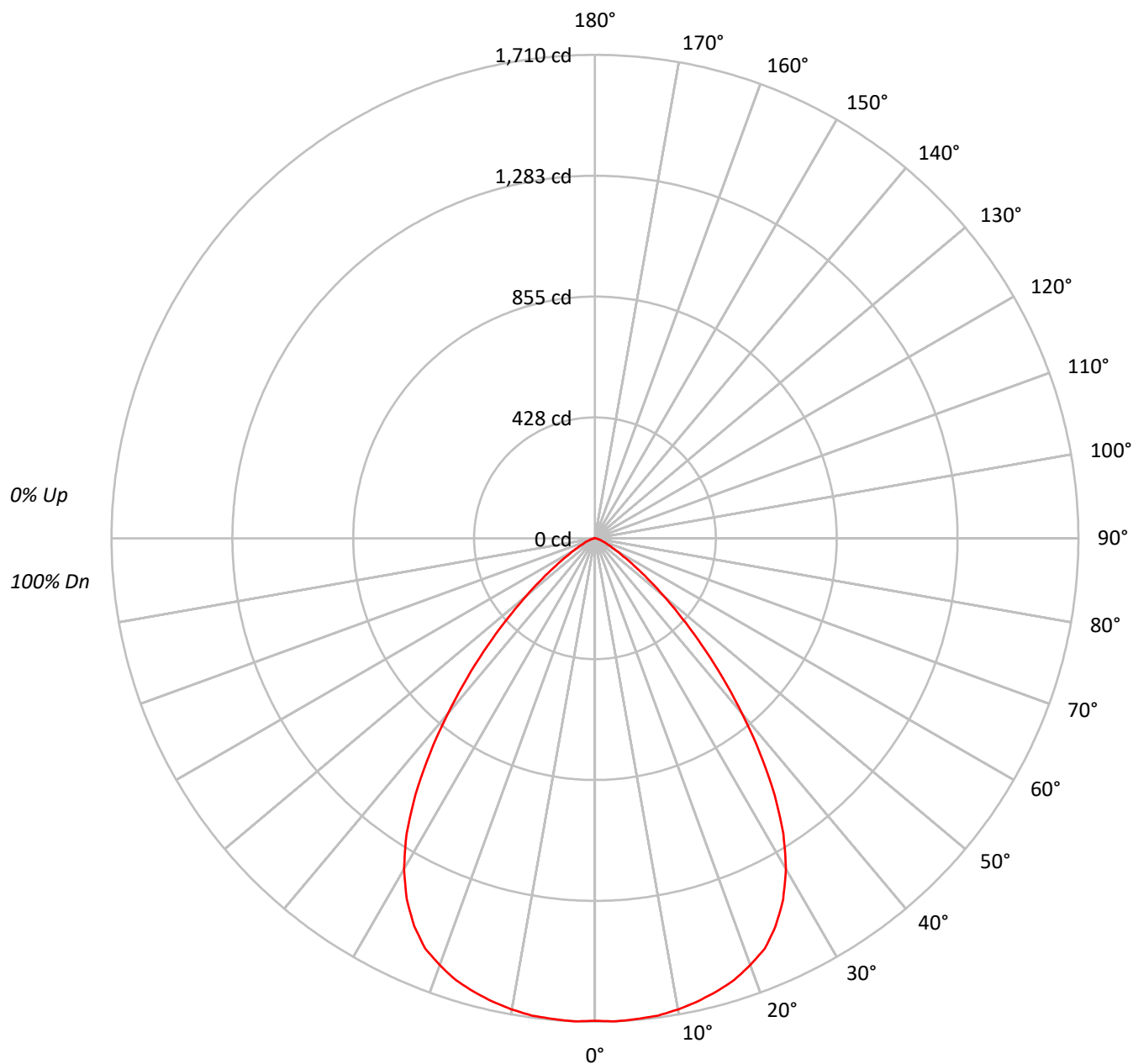
Lumens per Lamp: N/A
Luminaire Lumens: 2648.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P573248

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P573248

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL85

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209686
5°	210487
10°	211125
15°	211131
20°	209978
25°	205052
30°	191651
35°	165964
40°	129646
45°	93021
50°	60434
55°	36176
60°	21180
65°	13605
70°	9052
75°	6835
80°	5094
85°	0



TEST NUMBER: P573248

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	6.1
10°-20°	468.3	17.7
20°-30°	691.1	26.1
30°-40°	682.0	25.8
40°-50°	417.3	15.8
50°-60°	160.0	6.0
60°-70°	50.0	1.9
70°-80°	14.7	0.6
80°-90°	2.0	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°	1322.0	49.9
0°-40°	2004.0	75.7
0°-60°	2581.3	97.5
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1707	
5°	1707	163
15°	1660	468
25°	1513	691
35°	1107	682
45°	535	417
55°	169	160
65°	47	50
75°	14	15
85°	0	2
90°	0	



TEST NUMBER: P573248

CATALOG NUMBER: FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL85

CANDELA DISTRIBUTION (FULL):

	0°
0°	1706.8
2.5°	1710.4
5°	1706.8
7.5°	1703.2
10°	1692.4
12.5°	1678.0
15°	1660.0
17.5°	1638.5
20°	1606.1
22.5°	1570.3
25°	1512.7
27.5°	1440.8
30°	1351.0
32.5°	1239.7
35°	1106.6
37.5°	959.3
40°	808.4
42.5°	668.3
45°	535.4
47.5°	416.7
50°	316.2
52.5°	233.6
55°	168.9
57.5°	118.5
60°	86.2
62.5°	64.7
65°	46.8
67.5°	36.0
70°	25.2
72.5°	18.0
75°	14.4
77.5°	7.2
80°	7.2
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)