

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: P573770

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573770
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-50-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

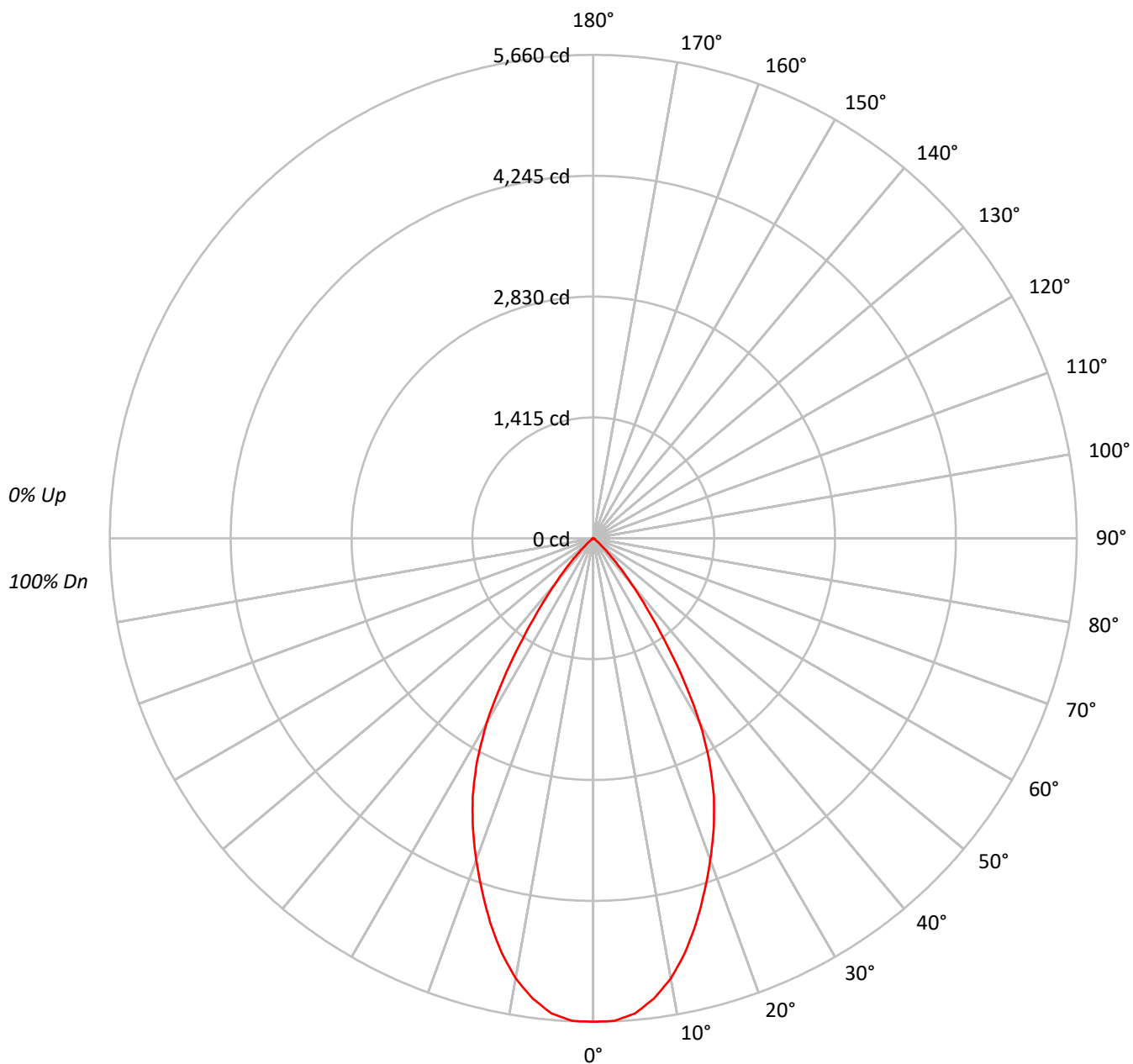
Lumens per Lamp: N/A
Luminaire Lumens: 4523.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573770

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P573770

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI-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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	111	109	106		111	109	107	105		105	103	101			101	100	98			98
2	108	103	100	96		106	102	98	95		99	96	93			96	93	91			93
3	103	97	92	88		101	95	91	87		93	89	86			90	87	85			88
4	98	91	85	81		96	89	84	81		87	83	80			85	82	79			83
5	93	85	79	75		91	84	79	75		82	78	74			81	77	73			79
6	89	80	74	70		87	79	74	70		78	73	69			76	72	69			75
7	84	75	69	65		83	75	69	65		73	68	65			72	68	64			71
8	80	71	65	61		79	70	65	61		69	64	61			68	64	60			67
9	77	67	61	57		75	67	61	57		66	61	57			65	60	57			64
10	73	64	58	54		72	63	58	54		62	57	54			62	57	54			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	695388
5°	688770
10°	652673
15°	592566
20°	523619
25°	452682
30°	353867
35°	217001
40°	111380
45°	44252
50°	14373
55°	4948
60°	4251
65°	3401
70°	2083
75°	2753
80°	0
85°	0



TEST NUMBER: P573770

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	11.5
10°-20°	1298.2	28.7
20°-30°	1509.1	33.4
30°-40°	924.1	20.4
40°-50°	229.5	5.1
50°-60°	26.8	0.6
60°-70°	10.0	0.2
70°-80°	3.8	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°	3328.7	73.6
0°-40°	4252.9	94.0
0°-60°	4509.1	99.7
0°-90°	4523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5660	
5°	5585	521
15°	4659	1298
25°	3340	1509
35°	1447	924
45°	255	229
55°	23	27
65°	12	10
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573770

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85

CANDELA DISTRIBUTION (FULL):

0°	
0°	5660.3
2.5°	5654.5
5°	5585.1
7.5°	5434.6
10°	5231.9
12.5°	4965.8
15°	4659.0
17.5°	4329.2
20°	4005.1
22.5°	3680.9
25°	3339.5
27.5°	2945.9
30°	2494.5
32.5°	1967.8
35°	1446.9
37.5°	1018.6
40°	694.5
42.5°	434.0
45°	254.7
47.5°	144.7
50°	75.2
52.5°	34.8
55°	23.1
57.5°	17.3
60°	17.3
62.5°	11.7
65°	11.7
67.5°	5.8
70°	5.8
72.5°	5.8
75°	5.8
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)