

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: P573470

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

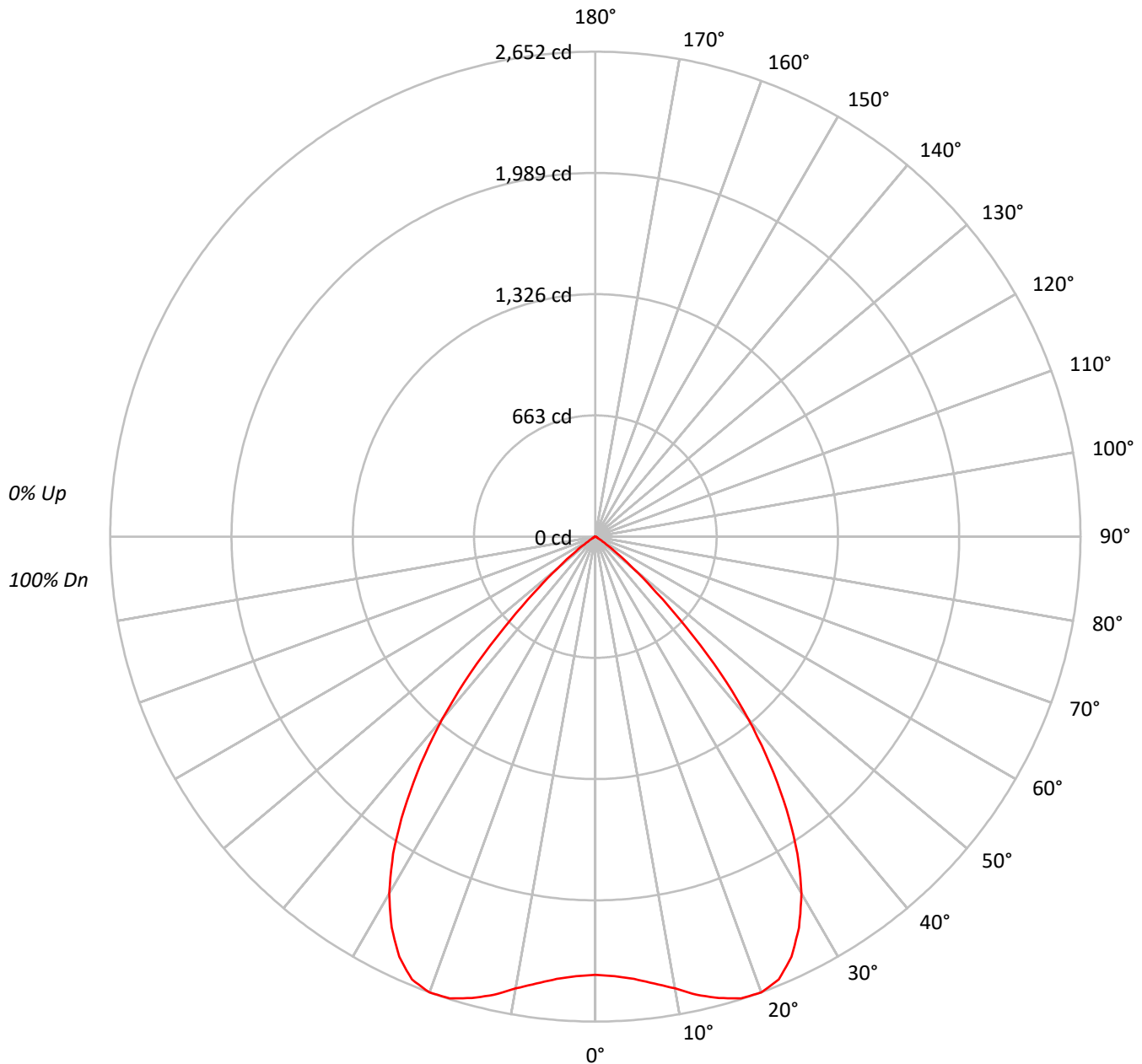
Lumens per Lamp: N/A
Luminaire Lumens: 3912.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P573470

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P573470

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93		104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83		98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75		92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68		87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62		82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52		72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48		68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44		65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	294467
5°	299465
10°	312994
15°	332213
20°	346769
25°	343751
30°	319679
35°	273482
40°	208374
45°	122227
50°	52216
55°	15379
60°	4398
65°	2616
70°	1616
75°	2136
80°	0
85°	0



TEST NUMBER: P573470

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	6.0
10°-20°	739.7	18.9
20°-30°	1154.0	29.5
30°-40°	1122.8	28.7
40°-50°	560.8	14.3
50°-60°	86.8	2.2
60°-70°	10.5	0.3
70°-80°	3.0	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°	2128.1	54.4
0°-40°	3250.9	83.1
0°-60°	3898.6	99.7
0°-90°	3912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3912.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2397	
5°	2428	234
15°	2612	740
25°	2536	1154
35°	1824	1123
45°	704	561
55°	72	87
65°	9	11
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P573470

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-LI-BL85

CANDELA DISTRIBUTION (FULL):

0°	
0°	2396.9
2.5°	2405.8
5°	2428.3
7.5°	2464.1
10°	2509.0
12.5°	2567.1
15°	2612.0
17.5°	2647.9
20°	2652.4
22.5°	2620.9
25°	2535.9
27.5°	2410.3
30°	2253.5
32.5°	2056.6
35°	1823.5
37.5°	1568.0
40°	1299.3
42.5°	1012.6
45°	703.5
47.5°	452.5
50°	273.2
52.5°	147.8
55°	71.8
57.5°	31.4
60°	17.9
62.5°	13.5
65°	9.0
67.5°	9.0
70°	4.5
72.5°	4.5
75°	4.5
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)