

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: P573444

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

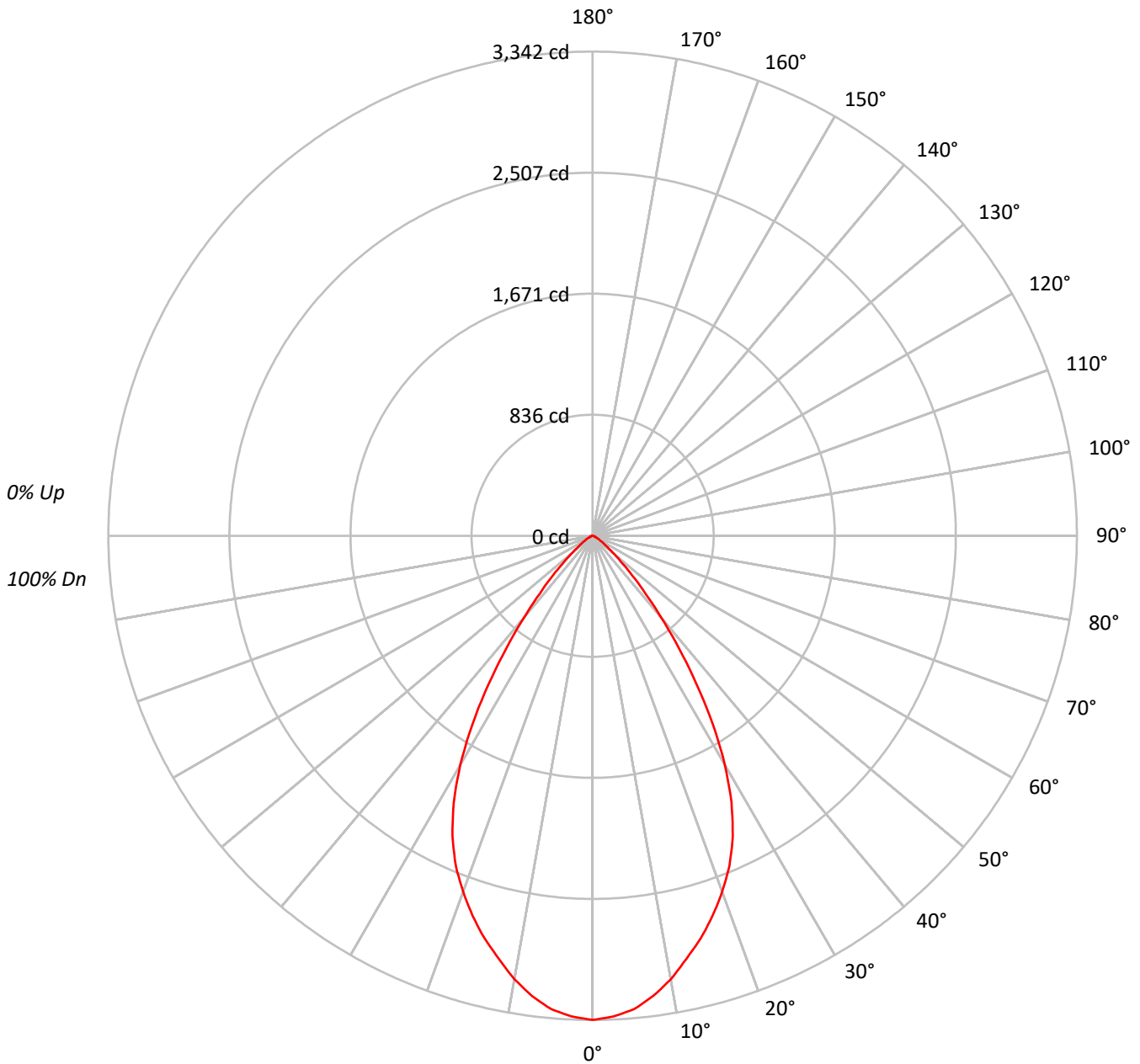
Lumens per Lamp: N/A
Luminaire Lumens: 3370.1 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P573444

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P573444

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67				67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	410527
5°	404560
10°	387657
15°	366147
20°	341775
25°	310256
30°	259034
35°	187650
40°	117474
45°	67151
50°	35014
55°	19620
60°	12506
65°	7384
70°	5496
75°	2421
80°	3608
85°	0



TEST NUMBER: P573444

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.5	9.1
10°-20°	806.7	23.9
20°-30°	1036.7	30.8
30°-40°	780.0	23.1
40°-50°	313.3	9.3
50°-60°	89.0	2.6
60°-70°	28.2	0.8
70°-80°	8.1	0.2
80°-90°	0.7	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°	2150.8	63.8
0°-40°	2930.8	87.0
0°-60°	3333.1	98.9
0°-90°	3370.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3342	
5°	3280	307
15°	2879	807
25°	2289	1037
35°	1251	780
45°	386	313
55°	92	89
65°	25	28
75°	5	8
85°	0	1
90°	0	



TEST NUMBER: P573444

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3341.6
2.5°	3321.2
5°	3280.5
7.5°	3204.2
10°	3107.5
12.5°	2990.7
15°	2878.8
17.5°	2751.6
20°	2614.2
22.5°	2466.9
25°	2288.8
27.5°	2075.1
30°	1826.0
32.5°	1546.1
35°	1251.2
37.5°	976.5
40°	732.5
42.5°	539.1
45°	386.5
47.5°	264.6
50°	183.2
52.5°	127.2
55°	91.6
57.5°	66.1
60°	50.9
62.5°	35.6
65°	25.4
67.5°	20.4
70°	15.3
72.5°	10.2
75°	5.1
77.5°	5.1
80°	5.1
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)