

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: P573593

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573593
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-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

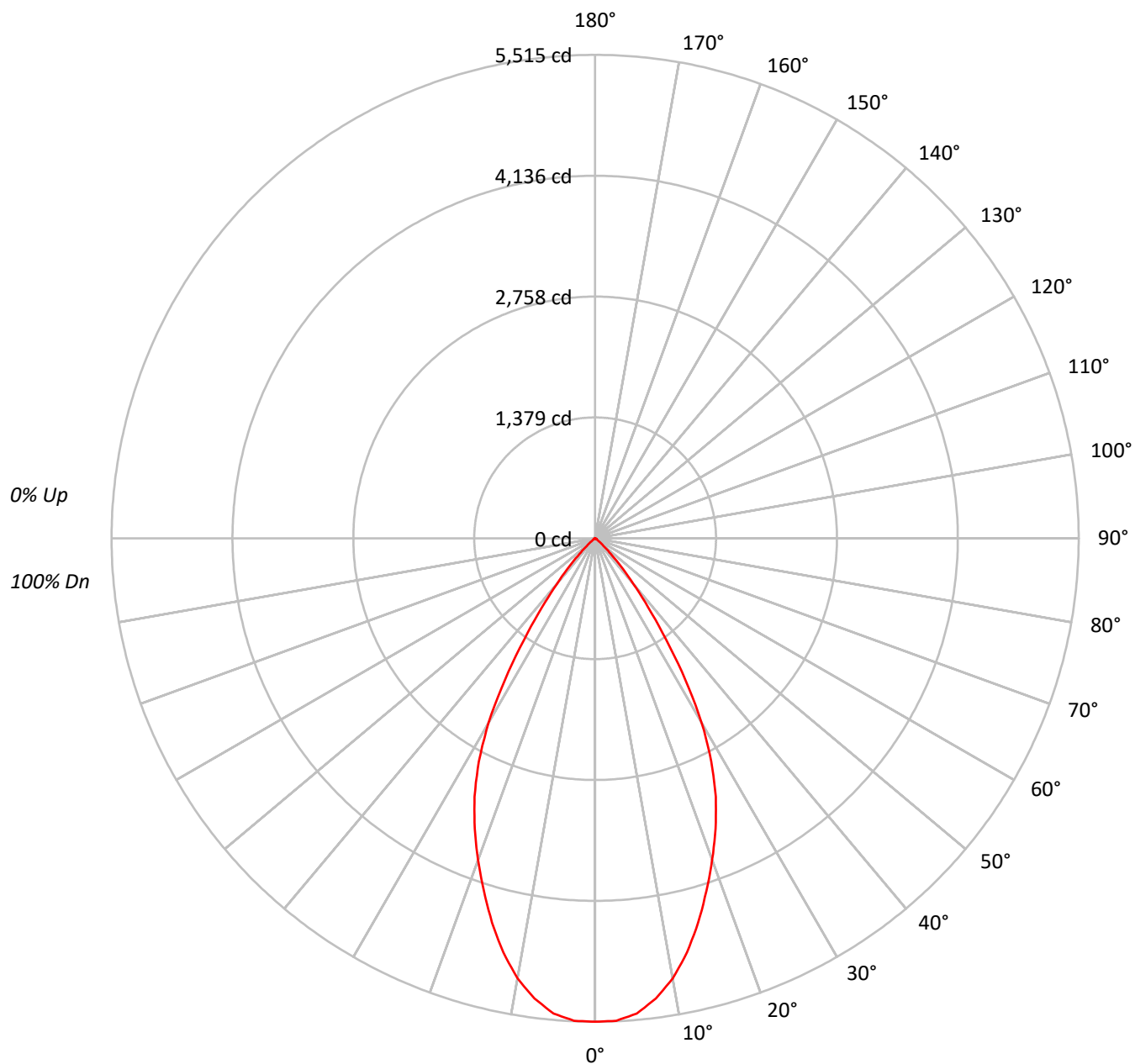
Lumens per Lamp: N/A
Luminaire Lumens: 4407.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P573593

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV

Luminous Intensity Polar Plot



TEST NUMBER: P573593

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV

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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94						
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82						
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76						
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71						
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67						
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63						
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59						
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55						
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	677549
5°	671110
10°	635944
15°	577367
20°	510192
25°	441079
30°	344788
35°	211437
40°	108525
45°	43123
50°	14010
55°	4819
60°	4128
65°	3314
70°	2047
75°	2706
80°	0
85°	0



TEST NUMBER: P573593

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.1	11.5
10°-20°	1264.9	28.7
20°-30°	1470.4	33.4
30°-40°	900.4	20.4
40°-50°	223.6	5.1
50°-60°	26.1	0.6
60°-70°	9.8	0.2
70°-80°	3.7	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°	3243.4	73.6
0°-40°	4143.8	94.0
0°-60°	4393.5	99.7
0°-90°	4407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5515	
5°	5442	508
15°	4540	1265
25°	3254	1470
35°	1410	900
45°	248	224
55°	22	26
65°	11	10
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573593

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89BV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5515.1
2.5°	5509.5
5°	5441.9
7.5°	5295.2
10°	5097.8
12.5°	4838.4
15°	4539.5
17.5°	4218.1
20°	3902.4
22.5°	3586.5
25°	3253.9
27.5°	2870.4
30°	2430.5
32.5°	1917.3
35°	1409.8
37.5°	992.4
40°	676.7
42.5°	422.9
45°	248.2
47.5°	141.0
50°	73.3
52.5°	33.9
55°	22.5
57.5°	16.8
60°	16.8
62.5°	11.4
65°	11.4
67.5°	5.7
70°	5.7
72.5°	5.7
75°	5.7
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)