

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: P573558

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573558
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-90-40 F4X-M-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

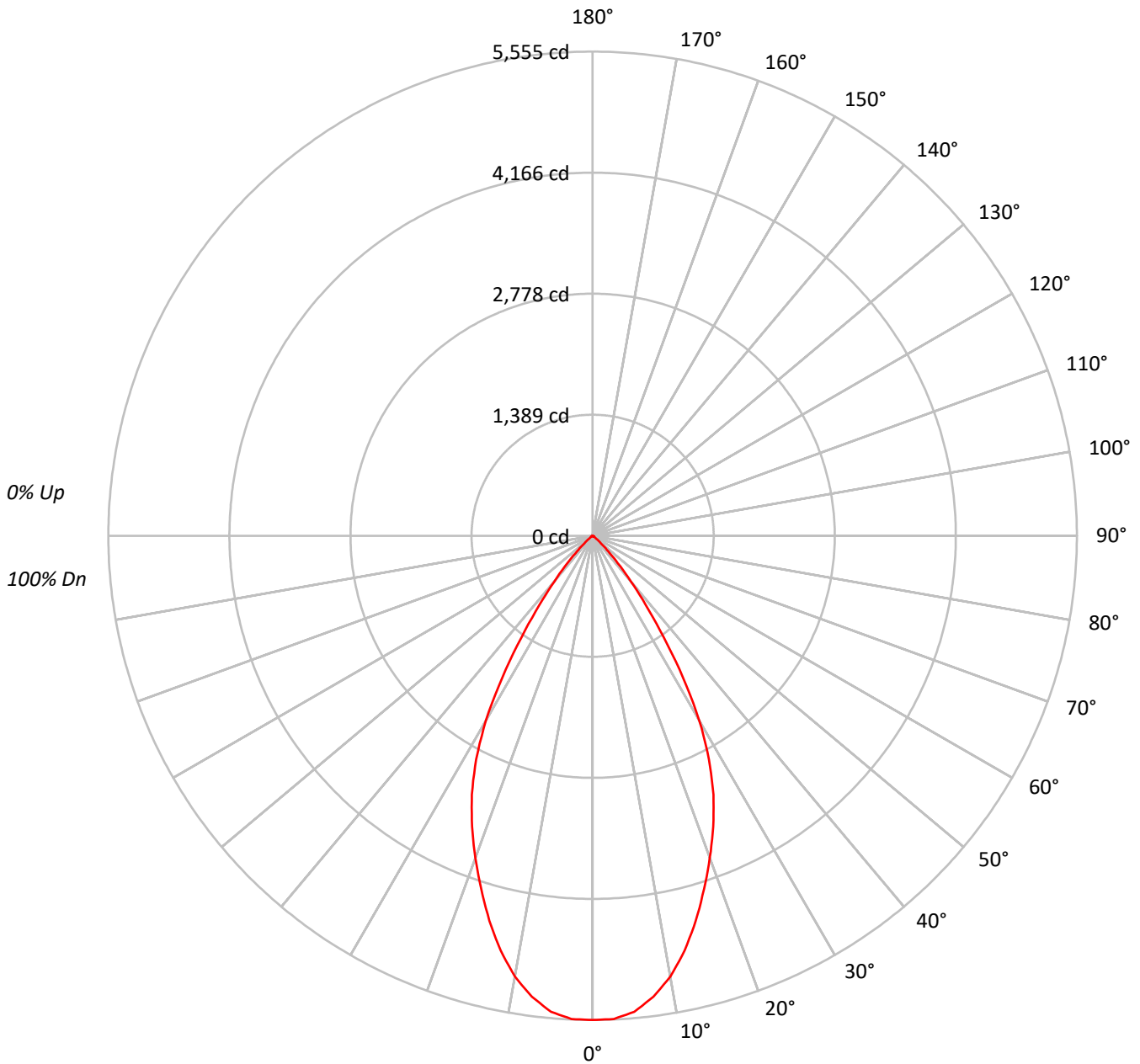
Lumens per Lamp: N/A
Luminaire Lumens: 4438.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (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: P573558

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P573558

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	682476
5°	675981
10°	640560
15°	581564
20°	513892
25°	444278
30°	347285
35°	212981
40°	109311
45°	43435
50°	14105
55°	4862
60°	4177
65°	3314
70°	2047
75°	2706
80°	0
85°	0



TEST NUMBER: P573558

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.8	11.5
10°-20°	1274.1	28.7
20°-30°	1481.1	33.4
30°-40°	907.0	20.4
40°-50°	225.2	5.1
50°-60°	26.3	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°	3266.9	73.6
0°-40°	4173.9	94.0
0°-60°	4425.4	99.7
0°-90°	4438.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5555	
5°	5481	512
15°	4572	1274
25°	3278	1481
35°	1420	907
45°	250	225
55°	23	26
65°	11	10
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573558

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	5555.2
2.5°	5549.5
5°	5481.4
7.5°	5333.6
10°	5134.8
12.5°	4873.6
15°	4572.5
17.5°	4248.8
20°	3930.7
22.5°	3612.5
25°	3277.5
27.5°	2891.2
30°	2448.1
32.5°	1931.2
35°	1420.1
37.5°	999.6
40°	681.6
42.5°	425.9
45°	250.0
47.5°	142.0
50°	73.8
52.5°	34.1
55°	22.7
57.5°	17.0
60°	17.0
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)