

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: P573592

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573592
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-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

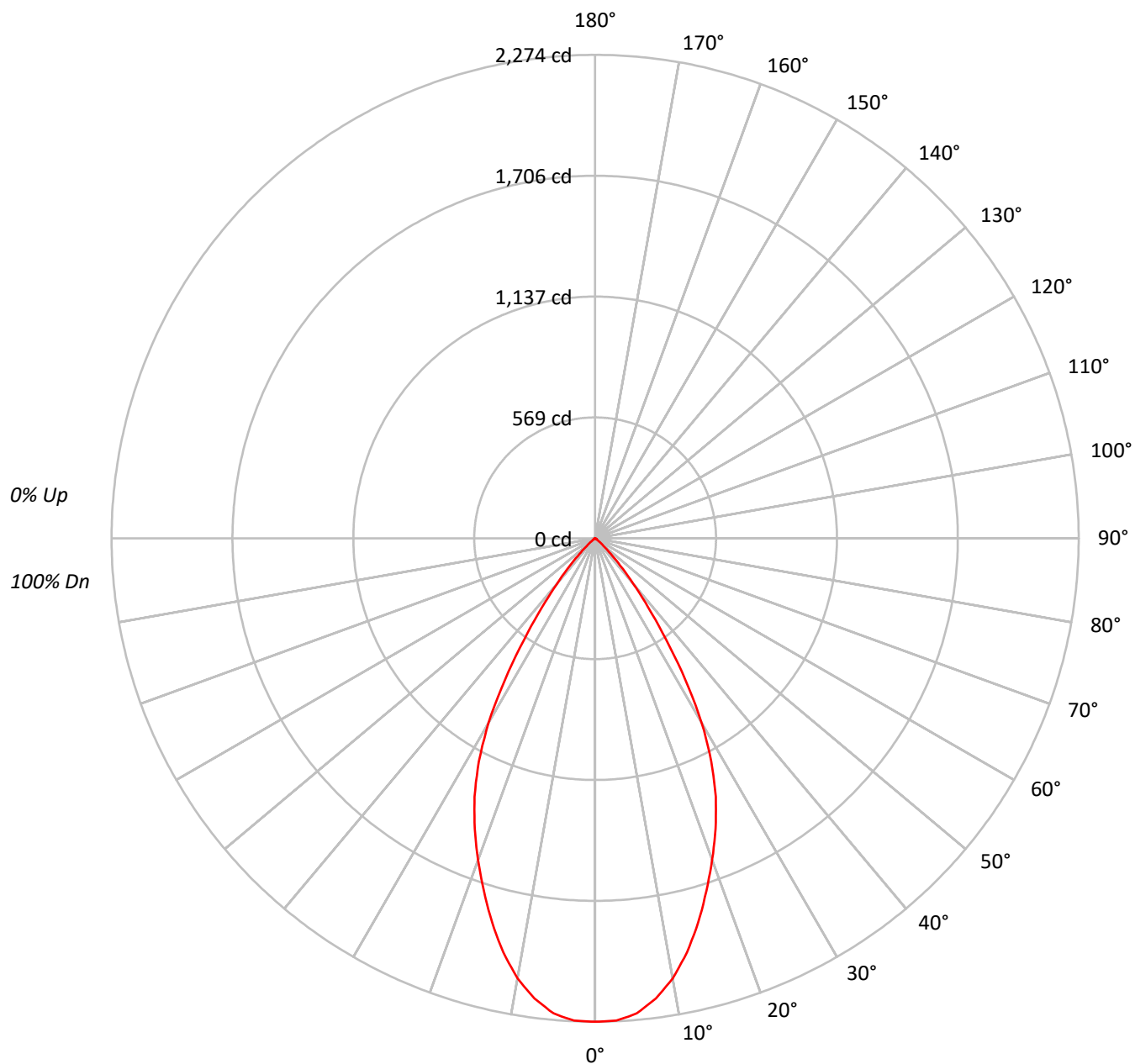
Lumens per Lamp: N/A
Luminaire Lumens: 1816.9 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P573592

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89AM

Luminous Intensity Polar Plot



TEST NUMBER: P573592

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89AM

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°	279357
5°	276699
10°	262197
15°	238044
20°	210357
25°	181859
30°	142157
35°	87181
40°	44744
45°	17774
50°	5772
55°	1992
60°	1695
65°	1366
70°	826
75°	1092
80°	0
85°	0



TEST NUMBER: P573592

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89AM

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	11.5
10°-20°	521.5	28.7
20°-30°	606.3	33.4
30°-40°	371.3	20.4
40°-50°	92.2	5.1
50°-60°	10.8	0.6
60°-70°	4.0	0.2
70°-80°	1.5	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°	1337.2	73.6
0°-40°	1708.5	94.0
0°-60°	1811.4	99.7
0°-90°	1816.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2274	
5°	2244	209
15°	1872	522
25°	1342	606
35°	581	371
45°	102	92
55°	9	11
65°	5	4
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P573592

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL89AM

CANDELA DISTRIBUTION (FULL):

	0°
0°	2273.9
2.5°	2271.5
5°	2243.7
7.5°	2183.2
10°	2101.8
12.5°	1994.9
15°	1871.6
17.5°	1739.1
20°	1609.0
22.5°	1478.7
25°	1341.6
27.5°	1183.5
30°	1002.1
32.5°	790.5
35°	581.3
37.5°	409.2
40°	279.0
42.5°	174.3
45°	102.3
47.5°	58.1
50°	30.2
52.5°	14.0
55°	9.3
57.5°	6.9
60°	6.9
62.5°	4.7
65°	4.7
67.5°	2.3
70°	2.3
72.5°	2.3
75°	2.3
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)