

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: P573491

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-90-30 F4X-N-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

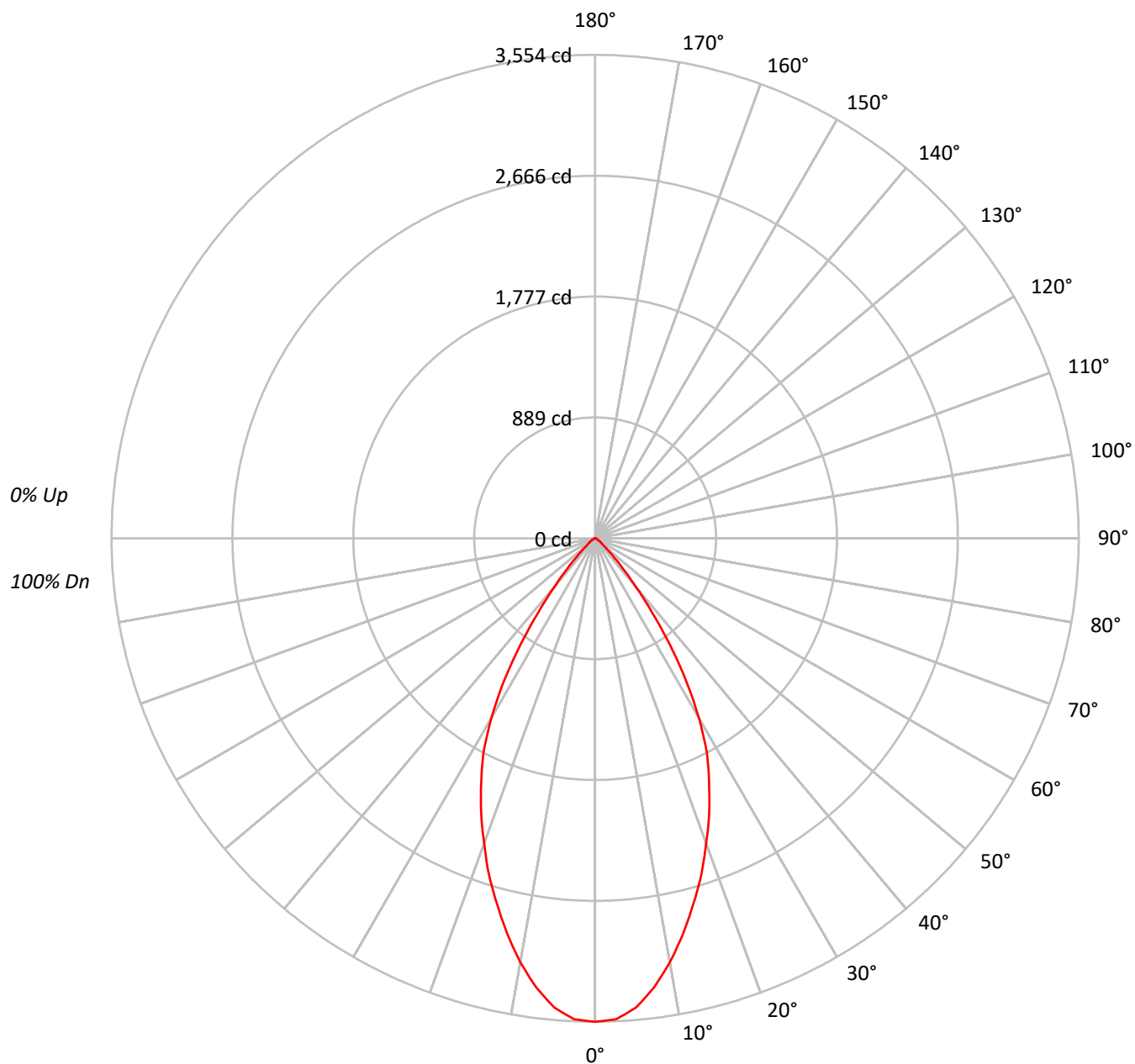
Lumens per Lamp: N/A
Luminaire Lumens: 2831.0 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P573491

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

Luminous Intensity Polar Plot



TEST NUMBER: P573491

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93						
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75						
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70						
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65						
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61						
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58						
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54						
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	436670
5°	426956
10°	394767
15°	354229
20°	311823
25°	268356
30°	216094
35°	143857
40°	74830
45°	33880
50°	14698
55°	9874
60°	6315
65°	4477
70°	3700
75°	2421
80°	0
85°	0

TEST NUMBER: P573491

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	11.3
10°-20°	777.9	27.5
20°-30°	903.2	31.9
30°-40°	598.1	21.1
40°-50°	167.8	5.9
50°-60°	42.1	1.5
60°-70°	15.8	0.6
70°-80°	5.4	0.2
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°	2001.7	70.7
0°-40°	2599.8	91.8
0°-60°	2809.7	99.3
0°-90°	2831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3554	
5°	3462	321
15°	2785	778
25°	1980	903
35°	959	598
45°	195	168
55°	46	42
65°	15	16
75°	5	5
85°	0	0
90°	0	



TEST NUMBER: P573491

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-BL89BV

CANDELA DISTRIBUTION (FULL):

	0°
0°	3554.4
2.5°	3539.0
5°	3462.1
7.5°	3328.6
10°	3164.5
12.5°	2979.8
15°	2785.1
17.5°	2595.2
20°	2385.1
22.5°	2190.1
25°	1979.7
27.5°	1779.8
30°	1523.3
32.5°	1251.4
35°	959.2
37.5°	687.3
40°	466.6
42.5°	302.5
45°	195.0
47.5°	118.1
50°	76.9
52.5°	56.3
55°	46.1
57.5°	36.0
60°	25.7
62.5°	20.6
65°	15.4
67.5°	10.3
70°	10.3
72.5°	5.1
75°	5.1
77.5°	5.1
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)