

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: P573791

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

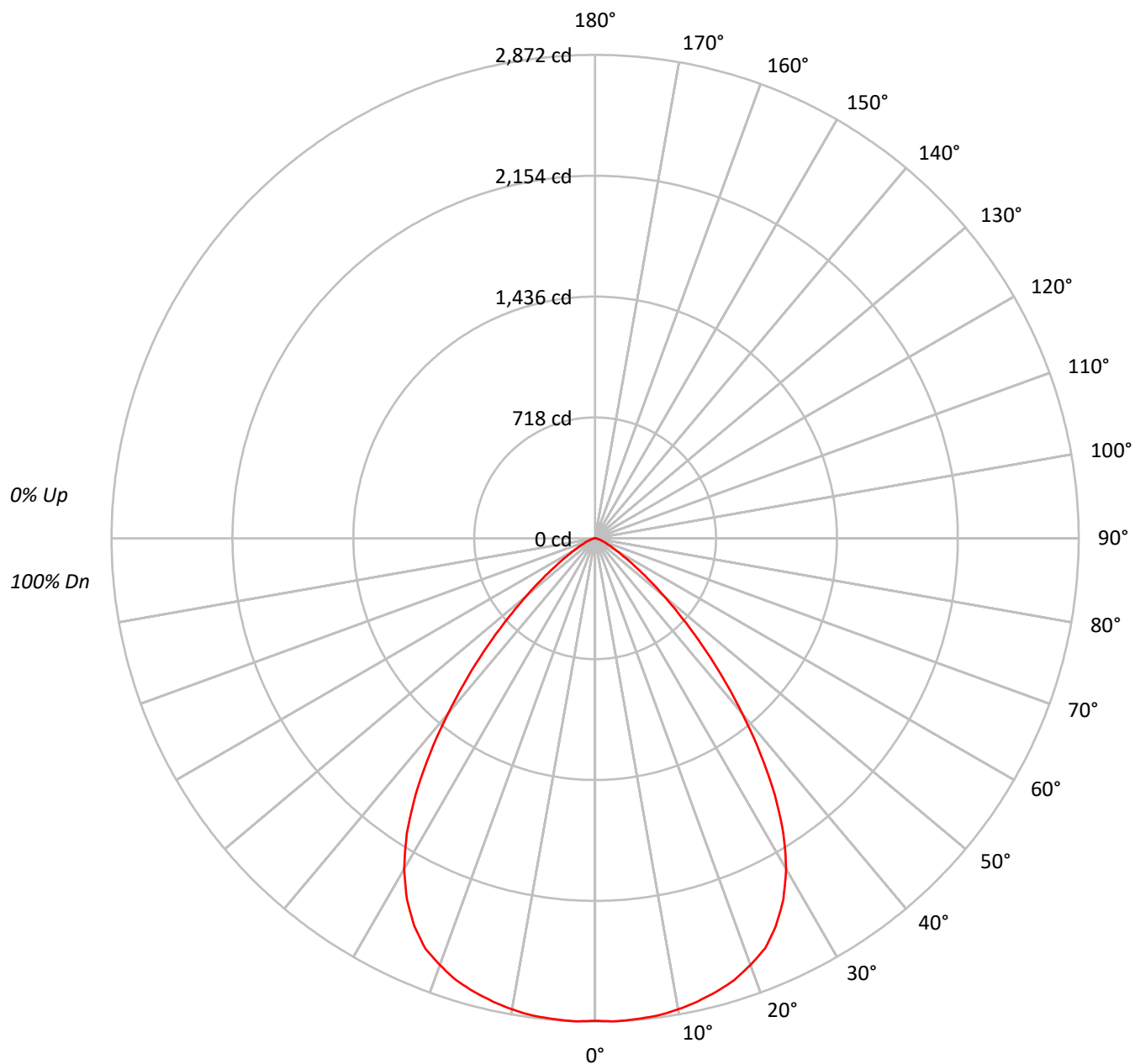
Lumens per Lamp: N/A
Luminaire Lumens: 4447.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573791

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

Luminous Intensity Polar Plot





TEST NUMBER: P573791

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	352147
5°	353492
10°	354561
15°	354573
20°	352626
25°	344374
30°	321864
35°	278731
40°	217740
45°	156228
50°	101488
55°	60744
60°	35554
65°	22820
70°	15194
75°	11487
80°	8561
85°	0



TEST NUMBER: P573791

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	6.1
10°-20°	786.5	17.7
20°-30°	1160.6	26.1
30°-40°	1145.4	25.8
40°-50°	700.9	15.8
50°-60°	268.7	6.0
60°-70°	84.0	1.9
70°-80°	24.7	0.6
80°-90°	3.3	0.1
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°	2220.1	49.9
0°-40°	3365.5	75.7
0°-60°	4335.1	97.5
0°-90°	4447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2866	
5°	2866	273
15°	2788	787
25°	2540	1161
35°	1858	1145
45°	899	701
55°	284	269
65°	78	84
75°	24	25
85°	0	3
90°	0	



TEST NUMBER: P573791

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2866.4
2.5°	2872.4
5°	2866.4
7.5°	2860.3
10°	2842.2
12.5°	2818.0
15°	2787.8
17.5°	2751.6
20°	2697.2
22.5°	2637.1
25°	2540.5
27.5°	2419.7
30°	2268.9
32.5°	2082.0
35°	1858.5
37.5°	1611.1
40°	1357.7
42.5°	1122.4
45°	899.2
47.5°	699.8
50°	531.0
52.5°	392.3
55°	283.6
57.5°	199.1
60°	144.7
62.5°	108.7
65°	78.5
67.5°	60.4
70°	42.3
72.5°	30.2
75°	24.2
77.5°	12.1
80°	12.1
82.5°	6.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)