

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: P573449

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573449
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-90-27 F4X-M-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

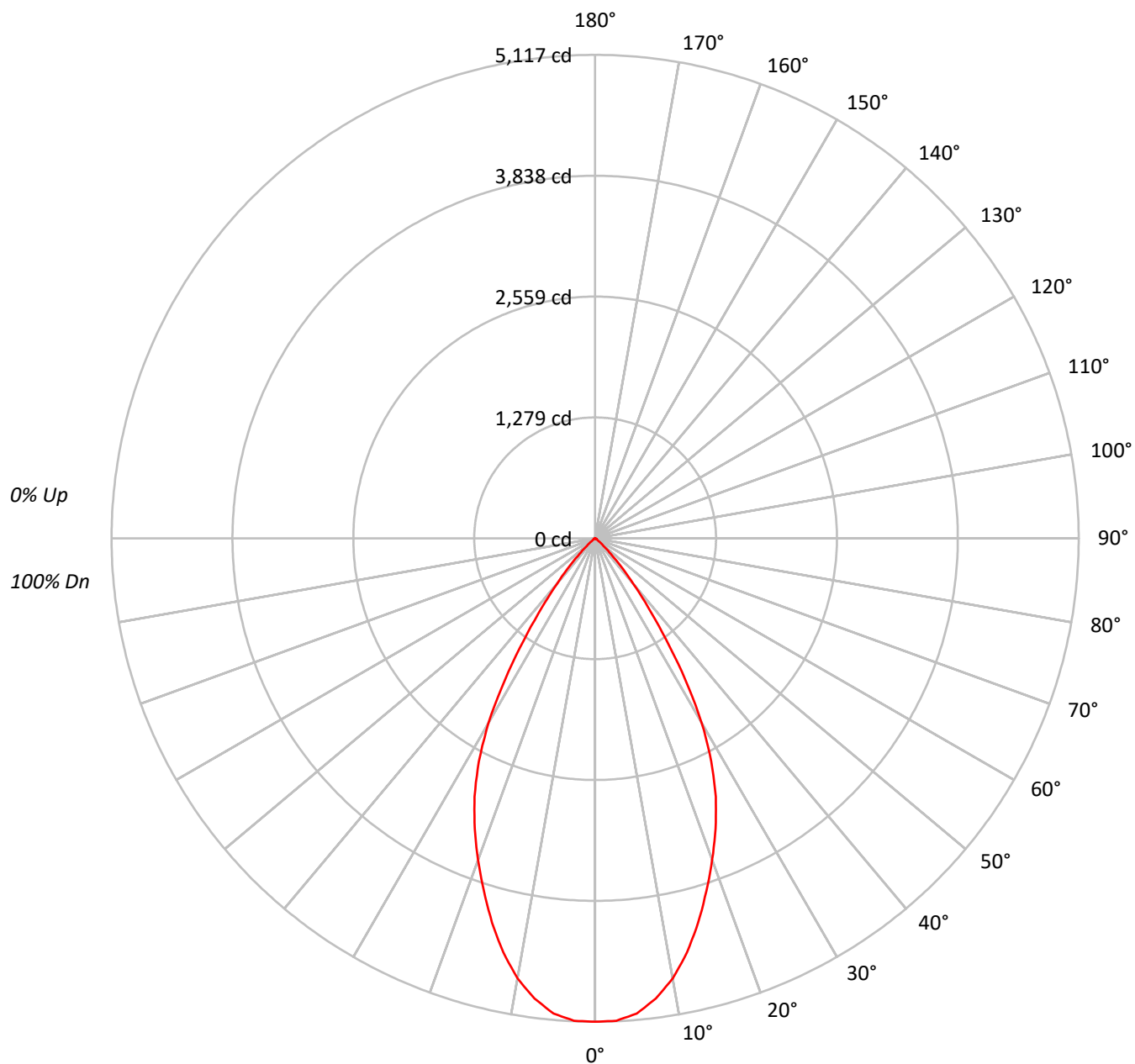
Lumens per Lamp: N/A
Luminaire Lumens: 4089.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P573449

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV

Luminous Intensity Polar Plot





TEST NUMBER: P573449

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98
2	108	103	100	96	106	102	98	95	99	96	93		96	93	91		93
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83
5	93	85	79	75	91	84	79	75	82	78	74		81	77	73		79
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75
7	84	75	69	65	83	75	69	65	73	68	65		72	68	64		71
8	80	71	65	61	79	70	65	61	69	64	61		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	57	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	628666
5°	622681
10°	590049
15°	535713
20°	473376
25°	409251
30°	319906
35°	196184
40°	100699
45°	40013
50°	12997
55°	4477
60°	3833
65°	3052
70°	1904
75°	2516
80°	0
85°	0



TEST NUMBER: P573449

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	11.5
10°-20°	1173.6	28.7
20°-30°	1364.3	33.4
30°-40°	835.5	20.4
40°-50°	207.5	5.1
50°-60°	24.2	0.6
60°-70°	9.1	0.2
70°-80°	3.5	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°	3009.3	73.6
0°-40°	3844.8	94.0
0°-60°	4076.5	99.7
0°-90°	4089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4089.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5117	
5°	5049	471
15°	4212	1174
25°	3019	1364
35°	1308	835
45°	230	207
55°	21	24
65°	10	9
75°	5	3
85°	0	0
90°	0	



TEST NUMBER: P573449

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5117.2
2.5°	5111.9
5°	5049.2
7.5°	4913.1
10°	4729.9
12.5°	4489.3
15°	4212.0
17.5°	3913.8
20°	3620.8
22.5°	3327.7
25°	3019.1
27.5°	2663.3
30°	2255.1
32.5°	1779.0
35°	1308.1
37.5°	920.8
40°	627.9
42.5°	392.4
45°	230.3
47.5°	130.8
50°	68.0
52.5°	31.4
55°	20.9
57.5°	15.6
60°	15.6
62.5°	10.5
65°	10.5
67.5°	5.3
70°	5.3
72.5°	5.3
75°	5.3
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)