

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: P573543

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
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-90-35 F4X-W-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

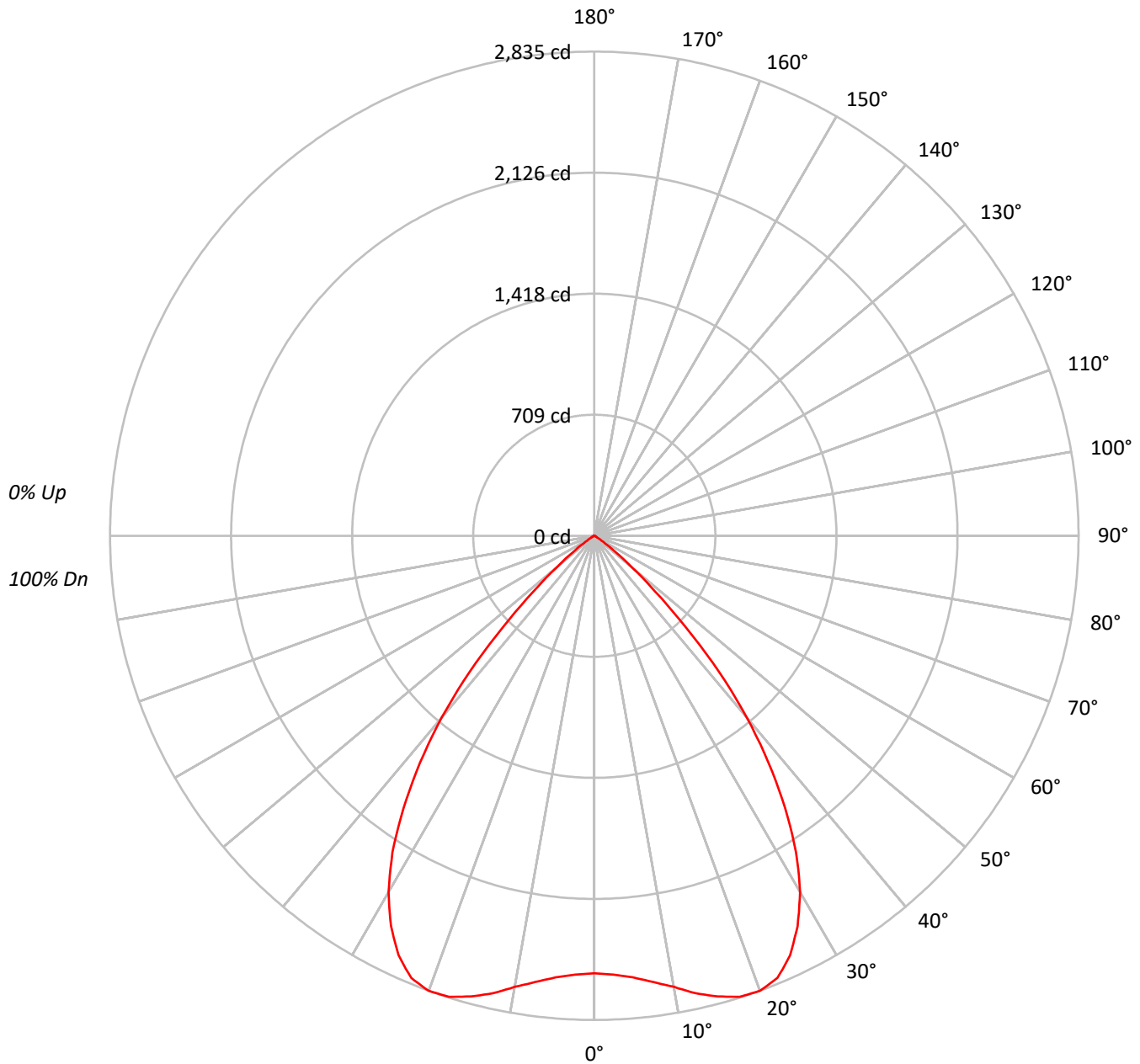
Lumens per Lamp: N/A
Luminaire Lumens: 4182.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	113	110	107	105		110	108	105	103		104	102	100			100	98	97			96
2	106	101	97	93		104	99	95	92		96	93	90			93	90	88			90
3	100	93	87	83		98	92	86	82		89	85	81			86	83	80			84
4	94	86	79	75		92	84	79	74		82	77	73			80	76	72			78
5	88	79	72	68		87	78	72	67		76	71	67			74	70	66			73
6	83	73	66	62		82	72	66	61		71	65	61			69	64	60			68
7	78	68	61	56		77	67	61	56		66	60	56			64	59	55			63
8	74	63	56	52		72	62	56	51		61	55	51			60	55	51			59
9	69	59	52	48		68	58	52	47		57	51	47			56	51	47			55
10	66	55	48	44		65	54	48	44		53	48	44			53	47	44			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	314787
5°	320134
10°	334601
15°	355145
20°	370694
25°	367473
30°	341752
35°	292349
40°	222743
45°	130653
50°	55828
55°	16428
60°	4718
65°	2791
70°	1724
75°	2278
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	6.0
10°-20°	790.8	18.9
20°-30°	1233.6	29.5
30°-40°	1200.3	28.7
40°-50°	599.5	14.3
50°-60°	92.8	2.2
60°-70°	11.2	0.3
70°-80°	3.1	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°	2275.0	54.4
0°-40°	3475.3	83.1
0°-60°	4167.6	99.7
0°-90°	4182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4182.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2562	
5°	2596	251
15°	2792	791
25°	2711	1234
35°	1949	1200
45°	752	600
55°	77	93
65°	10	11
75°	5	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2562.3
2.5°	2571.9
5°	2595.9
7.5°	2634.2
10°	2682.2
12.5°	2744.3
15°	2792.3
17.5°	2830.6
20°	2835.4
22.5°	2801.8
25°	2710.9
27.5°	2576.7
30°	2409.1
32.5°	2198.5
35°	1949.3
37.5°	1676.2
40°	1388.9
42.5°	1082.5
45°	752.0
47.5°	483.7
50°	292.1
52.5°	158.0
55°	76.7
57.5°	33.6
60°	19.2
62.5°	14.4
65°	9.6
67.5°	9.6
70°	4.8
72.5°	4.8
75°	4.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)