

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: P573531

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
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-N-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

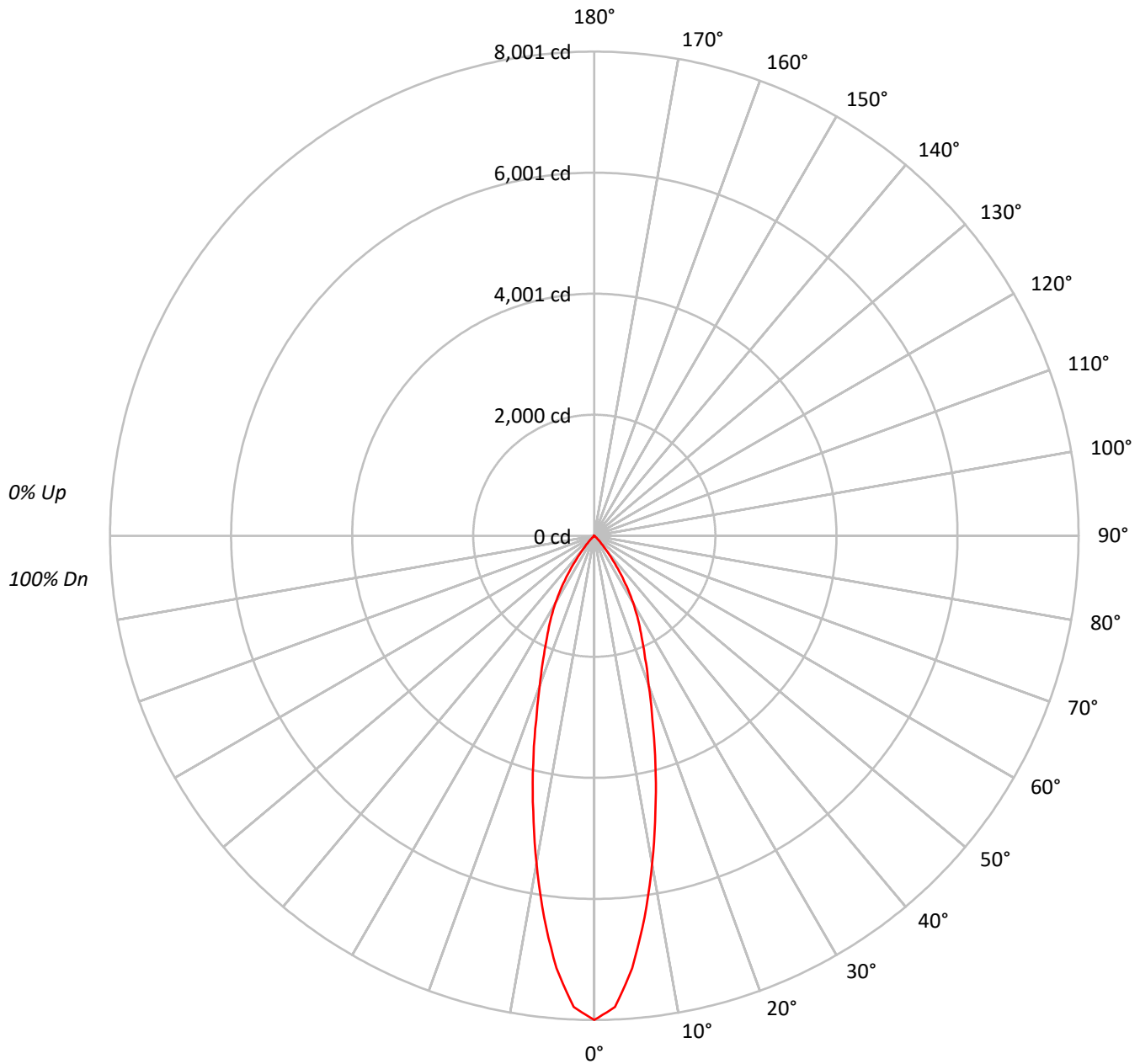
Lumens per Lamp: N/A
Luminaire Lumens: 3109.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	109	105	102	99		107	103	100	98		100	98	95			97	95	93			90
3	105	99	95	92		103	98	94	91		95	92	89			93	90	88			85
4	101	94	89	86		99	93	88	85		91	87	84			89	86	83			81
5	96	89	84	80		95	88	84	80		87	82	79			85	81	79			77
6	92	85	80	76		91	84	79	76		83	78	75			81	78	75			73
7	89	81	76	72		88	80	75	72		79	75	71			78	74	71			69
8	85	77	72	68		84	77	72	68		76	71	68			75	71	68			66
9	82	74	69	65		81	73	68	65		72	68	65			72	68	65			63
10	79	71	66	62		78	70	65	62		69	65	62			69	65	62			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	982926
5°	884532
10°	685706
15°	496310
20°	343658
25°	250531
30°	182033
35°	107713
40°	45306
45°	14125
50°	1835
55°	1028
60°	1179
65°	1395
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.5	20.3
10°-20°	1079.4	34.7
20°-30°	857.9	27.6
30°-40°	454.1	14.6
40°-50°	78.2	2.5
50°-60°	5.9	0.2
60°-70°	2.9	0.1
70°-80°	0.0	0.0
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°	2567.8	82.6
0°-40°	3022.0	97.2
0°-60°	3106.1	99.9
0°-90°	3109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8001	
5°	7172	631
15°	3902	1079
25°	1848	858
35°	718	454
45°	81	78
55°	5	6
65°	5	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8000.8
2.5°	7794.8
5°	7172.5
7.5°	6358.6
10°	5496.7
12.5°	4663.6
15°	3902.2
17.5°	3193.6
20°	2628.6
22.5°	2197.6
25°	1848.2
27.5°	1565.7
30°	1283.2
32.5°	995.9
35°	718.2
37.5°	474.1
40°	282.5
42.5°	162.8
45°	81.3
47.5°	28.8
50°	9.6
52.5°	9.6
55°	4.8
57.5°	4.8
60°	4.8
62.5°	4.8
65°	4.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)