

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: P573603

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573603
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-90-50 F4X-N-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

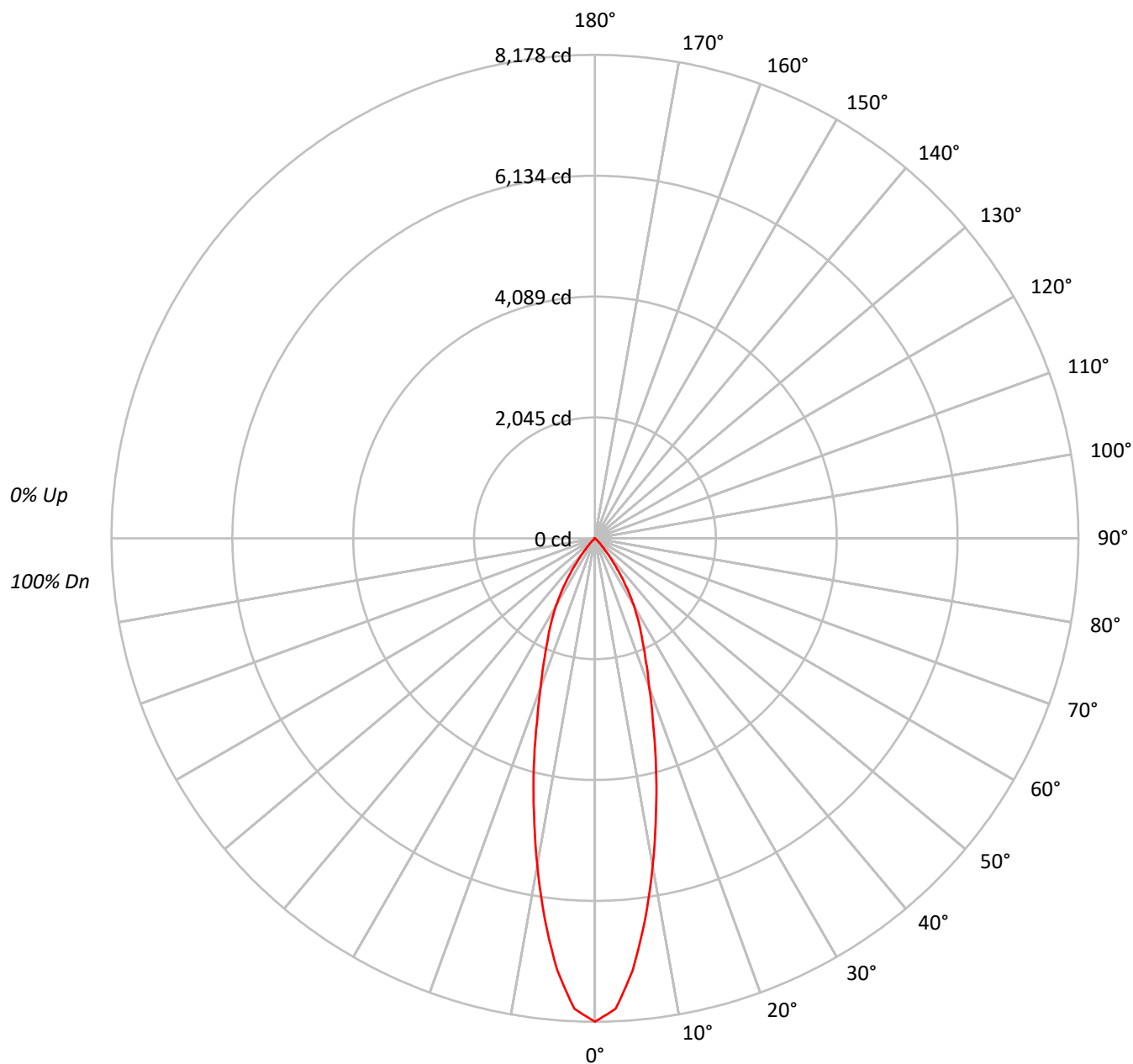
Lumens per Lamp: N/A
Luminaire Lumens: 3178.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	92
3	105	99	95	92		103	98	94	91		95	92	89		93	90	88		91	89	87
4	101	94	89	86		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	84	80		87	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	78	75		80	77	74
7	89	81	76	72		88	80	75	72		79	75	71		78	74	71		77	73	71
8	85	77	72	68		84	77	72	68		76	71	68		75	71	68		74	70	67
9	82	74	69	65		81	73	68	65		72	68	65		72	68	65		71	67	64
10	79	71	66	62		78	70	65	62		69	65	62		69	65	62		68	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1004733
5°	904165
10°	700925
15°	507325
20°	351280
25°	256088
30°	186076
35°	110113
40°	46316
45°	14438
50°	1873
55°	1050
60°	1204
65°	1424
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.5	20.3
10°-20°	1103.4	34.7
20°-30°	876.9	27.6
30°-40°	464.2	14.6
40°-50°	80.0	2.5
50°-60°	6.0	0.2
60°-70°	3.0	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°	2624.8	82.6
0°-40°	3089.0	97.2
0°-60°	3175.0	99.9
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8178	
5°	7332	645
15°	3989	1103
25°	1889	877
35°	734	464
45°	83	80
55°	5	6
65°	5	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8178.3
2.5°	7967.8
5°	7331.7
7.5°	6499.7
10°	5618.7
12.5°	4767.1
15°	3988.8
17.5°	3264.4
20°	2686.9
22.5°	2246.4
25°	1889.2
27.5°	1600.5
30°	1311.7
32.5°	1018.0
35°	734.2
37.5°	484.6
40°	288.8
42.5°	166.4
45°	83.1
47.5°	29.4
50°	9.8
52.5°	9.8
55°	4.9
57.5°	4.9
60°	4.9
62.5°	4.9
65°	4.9
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)