

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: P573231

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-50 F4X-M-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573231
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-35-D010 FEU4C-X-90-50 F4X-M-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

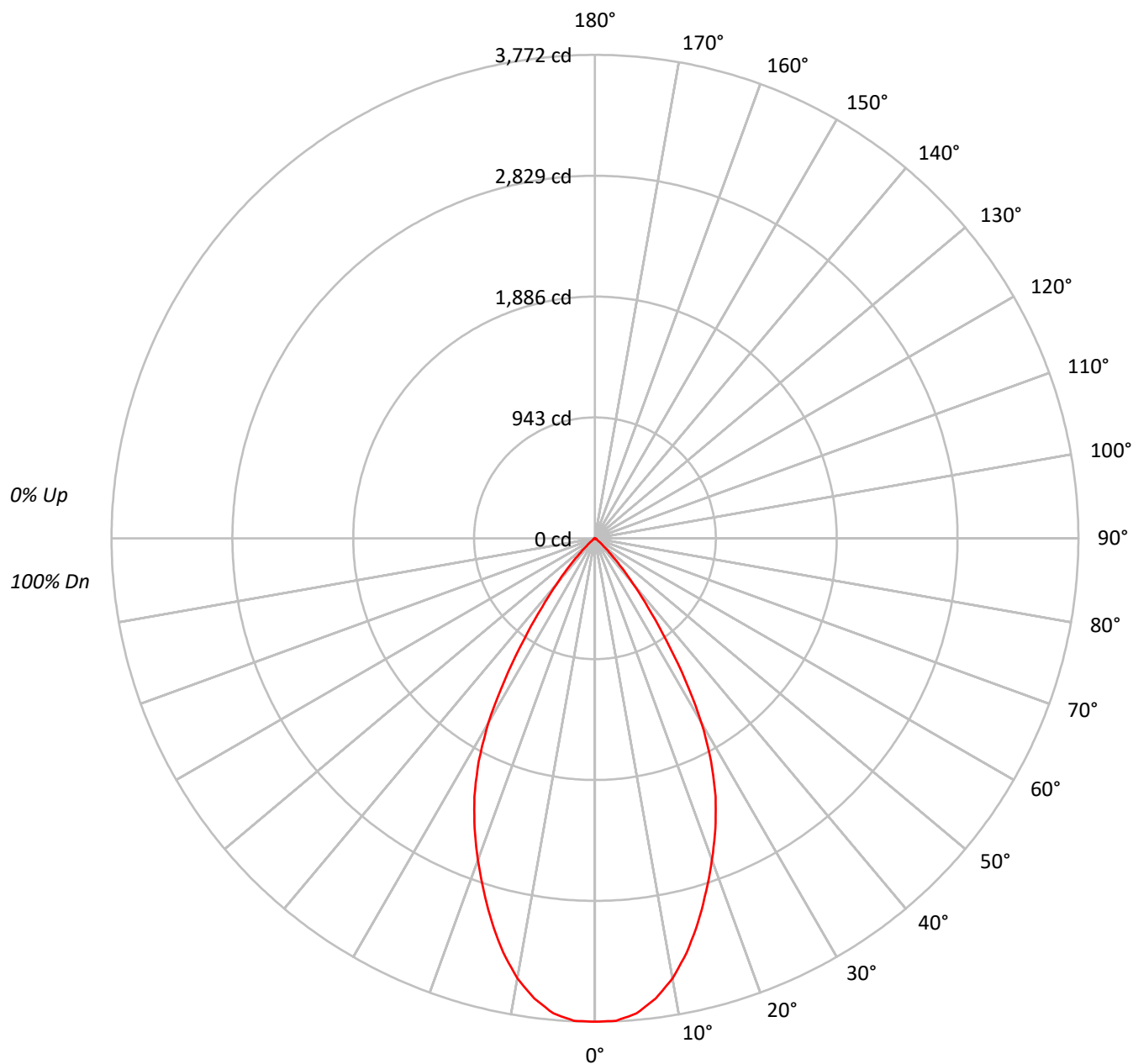
Lumens per Lamp: N/A
Luminaire Lumens: 3014.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

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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	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°	463391
5°	458983
10°	434924
15°	394866
20°	348926
25°	301661
30°	235798
35°	144607
40°	74221
45°	29484
50°	9575
55°	3299
60°	2826
65°	2267
70°	1401
75°	1851
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	11.5
10°-20°	865.1	28.7
20°-30°	1005.6	33.4
30°-40°	615.8	20.4
40°-50°	152.9	5.1
50°-60°	17.9	0.6
60°-70°	6.7	0.2
70°-80°	2.6	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°	2218.2	73.6
0°-40°	2834.0	94.0
0°-60°	3004.7	99.7
0°-90°	3014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3772	
5°	3722	347
15°	3105	865
25°	2225	1006
35°	964	616
45°	170	153
55°	15	18
65°	8	7
75°	4	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3771.9
2.5°	3768.0
5°	3721.8
7.5°	3621.4
10°	3486.4
12.5°	3309.1
15°	3104.6
17.5°	2884.8
20°	2668.9
22.5°	2452.8
25°	2225.4
27.5°	1963.1
30°	1662.2
32.5°	1311.3
35°	964.2
37.5°	678.7
40°	462.8
42.5°	289.2
45°	169.7
47.5°	96.4
50°	50.1
52.5°	23.2
55°	15.4
57.5°	11.5
60°	11.5
62.5°	7.8
65°	7.8
67.5°	3.9
70°	3.9
72.5°	3.9
75°	3.9
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)