

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: P573348

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-35 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-40-D010 FEU4C-X-90-35 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

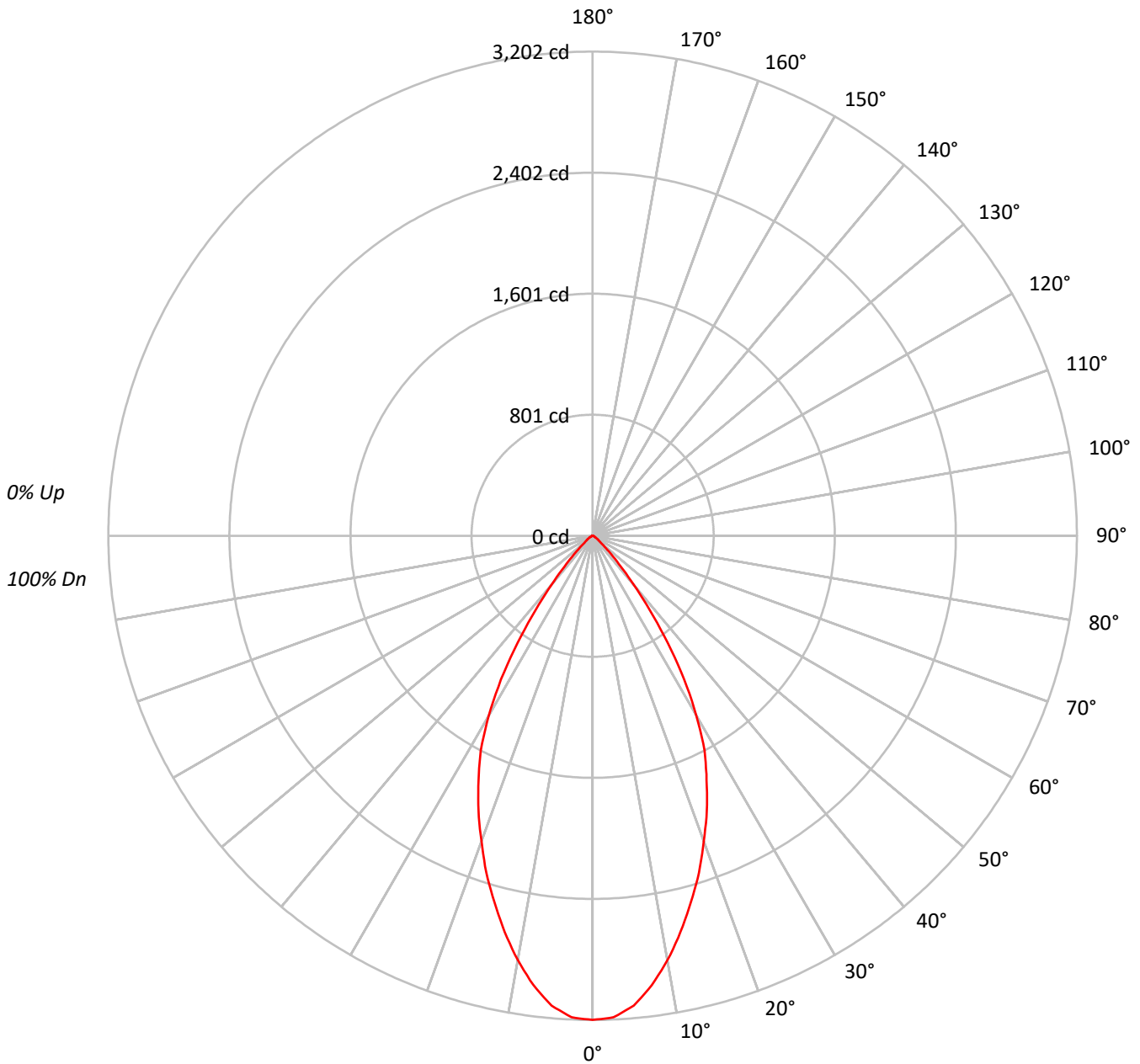
Lumens per Lamp: N/A
Luminaire Lumens: 2550.0 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				100
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93				93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70				70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65				65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54				54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	393328
5°	384582
10°	355584
15°	319062
20°	280864
25°	241720
30°	194645
35°	129580
40°	67405
45°	30509
50°	13245
55°	8889
60°	5700
65°	4041
70°	3341
75°	2183
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	11.3
10°-20°	700.7	27.5
20°-30°	813.5	31.9
30°-40°	538.7	21.1
40°-50°	151.1	5.9
50°-60°	38.0	1.5
60°-70°	14.3	0.6
70°-80°	4.9	0.2
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°	1803.0	70.7
0°-40°	2341.8	91.8
0°-60°	2530.8	99.2
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3202	
5°	3118	289
15°	2509	701
25°	1783	813
35°	864	539
45°	176	151
55°	42	38
65°	14	14
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3201.6
2.5°	3187.7
5°	3118.5
7.5°	2998.2
10°	2850.4
12.5°	2684.0
15°	2508.6
17.5°	2337.6
20°	2148.3
22.5°	1972.7
25°	1783.2
27.5°	1603.1
30°	1372.1
32.5°	1127.2
35°	864.0
37.5°	619.1
40°	420.3
42.5°	272.5
45°	175.6
47.5°	106.3
50°	69.3
52.5°	50.7
55°	41.5
57.5°	32.4
60°	23.2
62.5°	18.5
65°	13.9
67.5°	9.3
70°	9.3
72.5°	4.6
75°	4.6
77.5°	4.6
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)