

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: P572394

Luminaire Tested: **FLD4C-15-D010 FEU4C-X-90-27 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572394
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-15-D010 FEU4C-X-90-27 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

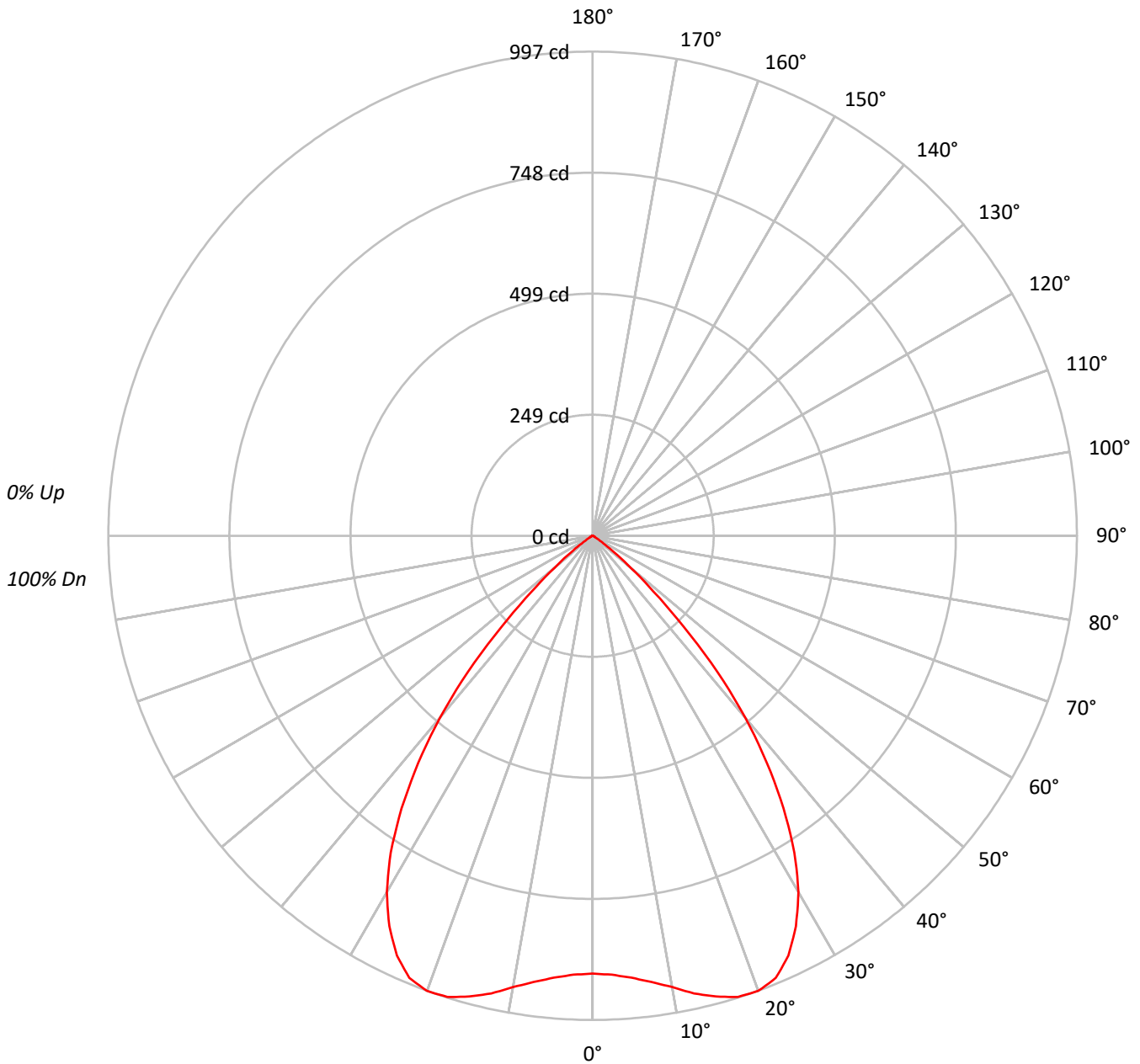
Lumens per Lamp: N/A
Luminaire Lumens: 1471.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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				
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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110728
5°	112606
10°	117688
15°	124923
20°	130385
25°	129264
30°	120211
35°	102839
40°	78359
45°	45955
50°	19629
55°	5783
60°	1646
65°	988
70°	611
75°	807
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	6.0
10°-20°	278.2	18.9
20°-30°	433.9	29.5
30°-40°	422.2	28.7
40°-50°	210.9	14.3
50°-60°	32.6	2.2
60°-70°	4.0	0.3
70°-80°	1.1	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°	800.2	54.4
0°-40°	1222.4	83.1
0°-60°	1465.9	99.7
0°-90°	1471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	901	
5°	913	88
15°	982	278
25°	954	434
35°	686	422
45°	264	211
55°	27	33
65°	3	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	901.3
2.5°	904.6
5°	913.1
7.5°	926.6
10°	943.4
12.5°	965.3
15°	982.2
17.5°	995.7
20°	997.3
22.5°	985.5
25°	953.6
27.5°	906.3
30°	847.4
32.5°	773.3
35°	685.7
37.5°	589.6
40°	488.6
42.5°	380.8
45°	264.5
47.5°	170.1
50°	102.7
52.5°	55.6
55°	27.0
57.5°	11.8
60°	6.7
62.5°	5.1
65°	3.4
67.5°	3.4
70°	1.7
72.5°	1.7
75°	1.7
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)