

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: P572892

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-50 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-25-D010 FEU4C-X-90-50 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

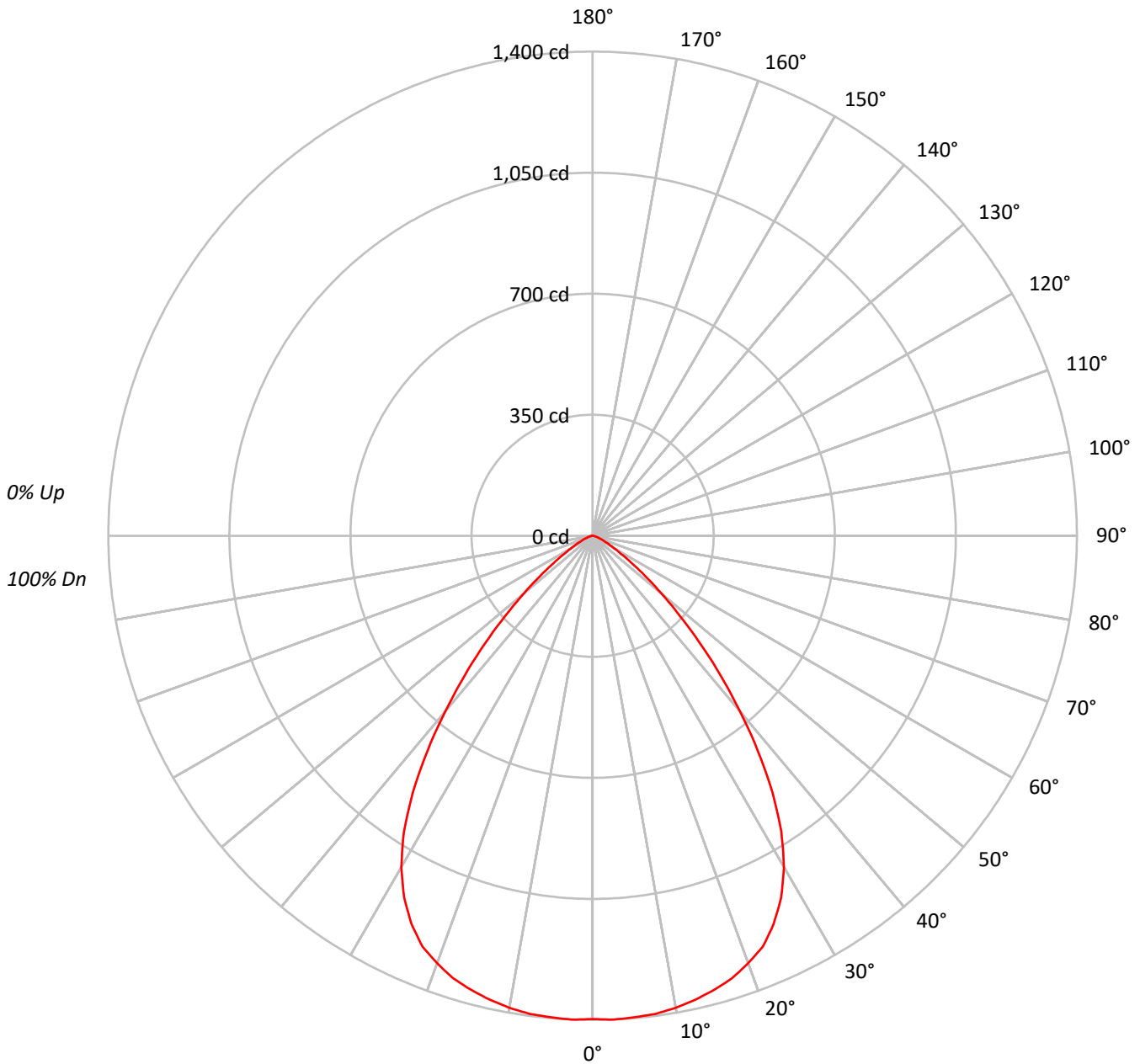
Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50				50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43				43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171675
5°	172331
10°	172852
15°	172860
20°	171920
25°	167883
30°	156910
35°	135879
40°	106151
45°	76168
50°	49483
55°	29622
60°	17322
65°	11134
70°	7400
75°	5601
80°	4174
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	6.1
10°-20°	383.4	17.7
20°-30°	565.8	26.1
30°-40°	558.4	25.8
40°-50°	341.7	15.8
50°-60°	131.0	6.0
60°-70°	40.9	1.9
70°-80°	12.0	0.6
80°-90°	1.6	0.1
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°	1082.3	49.9
0°-40°	1640.7	75.7
0°-60°	2113.4	97.5
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1397	
5°	1397	133
15°	1359	383
25°	1238	566
35°	906	558
45°	438	342
55°	138	131
65°	38	41
75°	12	12
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1397.4
2.5°	1400.4
5°	1397.4
7.5°	1394.5
10°	1385.6
12.5°	1373.8
15°	1359.1
17.5°	1341.5
20°	1315.0
22.5°	1285.6
25°	1238.5
27.5°	1179.6
30°	1106.1
32.5°	1015.0
35°	906.0
37.5°	785.4
40°	661.9
42.5°	547.2
45°	438.4
47.5°	341.2
50°	258.9
52.5°	191.3
55°	138.3
57.5°	97.0
60°	70.5
62.5°	53.0
65°	38.3
67.5°	29.4
70°	20.6
72.5°	14.7
75°	11.8
77.5°	5.9
80°	5.9
82.5°	2.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)