

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: P571740

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-35 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571740
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-02-D010 FEU4C-X-90-35 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

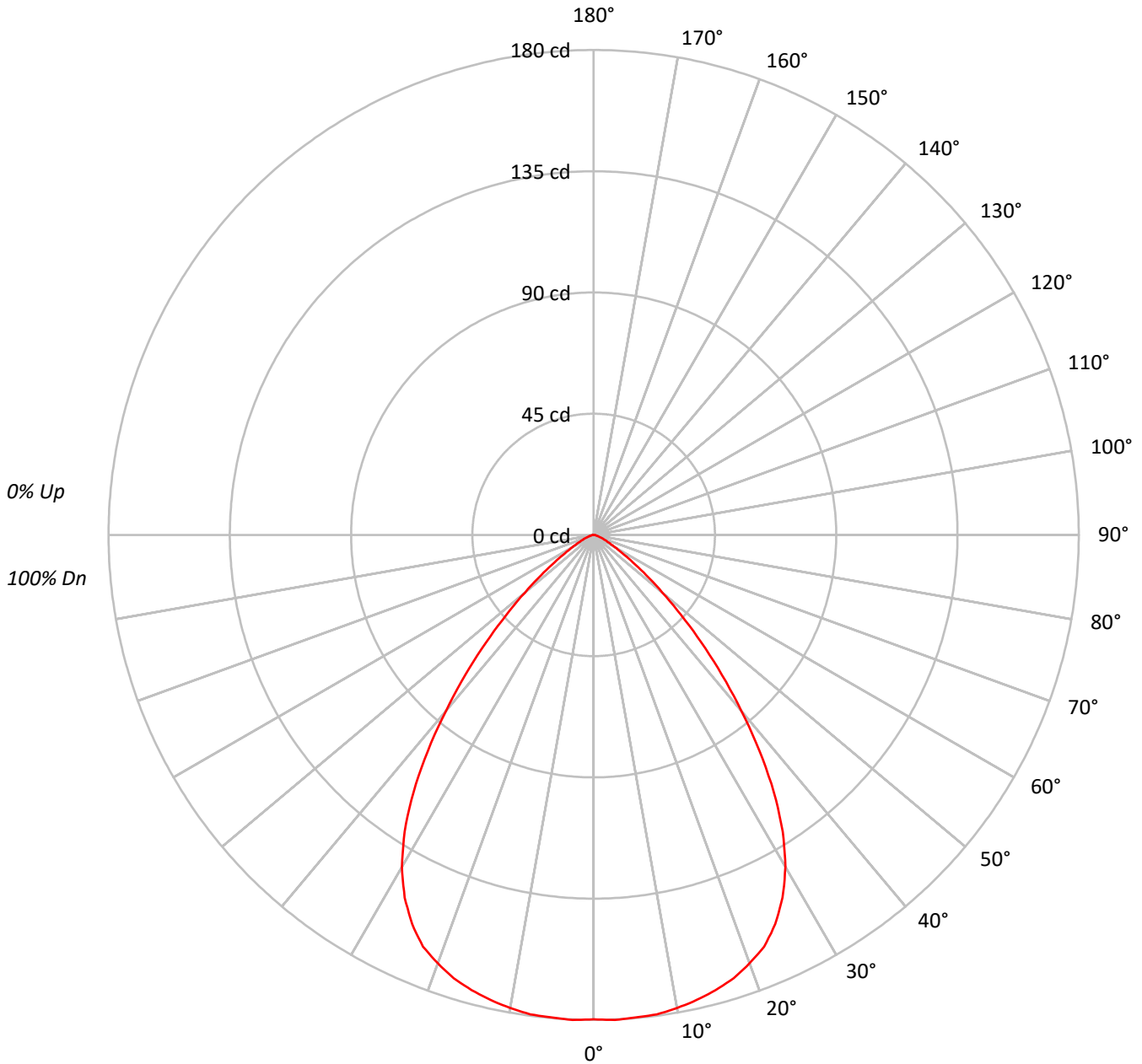
Lumens per Lamp: N/A
Luminaire Lumens: 279.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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	67	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°	22089
5°	22173
10°	22243
15°	22245
20°	22121
25°	21607
30°	20187
35°	17487
40°	13664
45°	9799
50°	6364
55°	3813
60°	2236
65°	1424
70°	970
75°	712
80°	566
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	6.1
10°-20°	49.3	17.7
20°-30°	72.8	26.1
30°-40°	71.9	25.8
40°-50°	44.0	15.8
50°-60°	16.9	6.0
60°-70°	5.3	1.9
70°-80°	1.6	0.6
80°-90°	0.2	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°	139.3	49.9
0°-40°	211.1	75.7
0°-60°	272.0	97.5
0°-90°	279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	279.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	180	
5°	180	17
15°	175	49
25°	159	73
35°	117	72
45°	56	44
55°	18	17
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	179.8
2.5°	180.2
5°	179.8
7.5°	179.5
10°	178.3
12.5°	176.8
15°	174.9
17.5°	172.6
20°	169.2
22.5°	165.4
25°	159.4
27.5°	151.8
30°	142.3
32.5°	130.6
35°	116.6
37.5°	101.1
40°	85.2
42.5°	70.4
45°	56.4
47.5°	43.9
50°	33.3
52.5°	24.6
55°	17.8
57.5°	12.5
60°	9.1
62.5°	6.8
65°	4.9
67.5°	3.8
70°	2.7
72.5°	1.9
75°	1.5
77.5°	0.8
80°	0.8
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)