

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: P572586

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-30 F4X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572586
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-20-D010 FEU4C-X-90-30 F4X-M-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

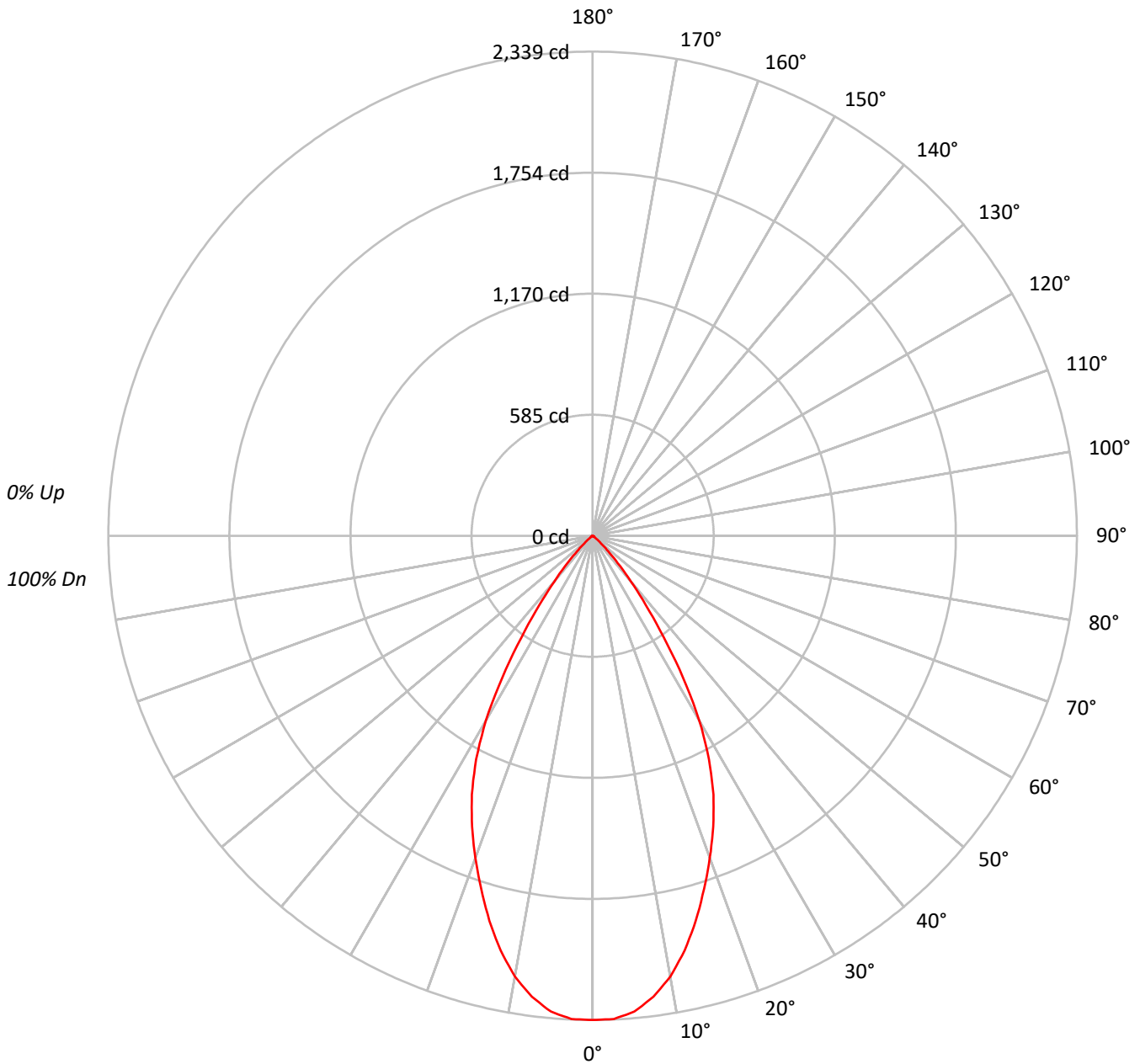
Lumens per Lamp: N/A
Luminaire Lumens: 1869.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287354
5°	284617
10°	269694
15°	244861
20°	216371
25°	187064
30°	146228
35°	89671
40°	46027
45°	18278
50°	5944
55°	2056
60°	1745
65°	1395
70°	862
75°	1139
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	11.5
10°-20°	536.4	28.7
20°-30°	623.6	33.4
30°-40°	381.9	20.4
40°-50°	94.8	5.1
50°-60°	11.1	0.6
60°-70°	4.1	0.2
70°-80°	1.6	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°	1375.5	73.6
0°-40°	1757.4	94.0
0°-60°	1863.3	99.7
0°-90°	1869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1869.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2339	
5°	2308	215
15°	1925	536
25°	1380	624
35°	598	382
45°	105	95
55°	10	11
65°	5	4
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2339.0
2.5°	2336.6
5°	2307.9
7.5°	2245.7
10°	2161.9
12.5°	2052.0
15°	1925.2
17.5°	1788.9
20°	1655.0
22.5°	1521.0
25°	1380.0
27.5°	1217.3
30°	1030.8
32.5°	813.1
35°	597.9
37.5°	420.9
40°	287.0
42.5°	179.3
45°	105.2
47.5°	59.8
50°	31.1
52.5°	14.4
55°	9.6
57.5°	7.1
60°	7.1
62.5°	4.8
65°	4.8
67.5°	2.4
70°	2.4
72.5°	2.4
75°	2.4
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)