

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: P572928

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572928  
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-30-D010 FEU4C-X-90-27 F4X-W-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

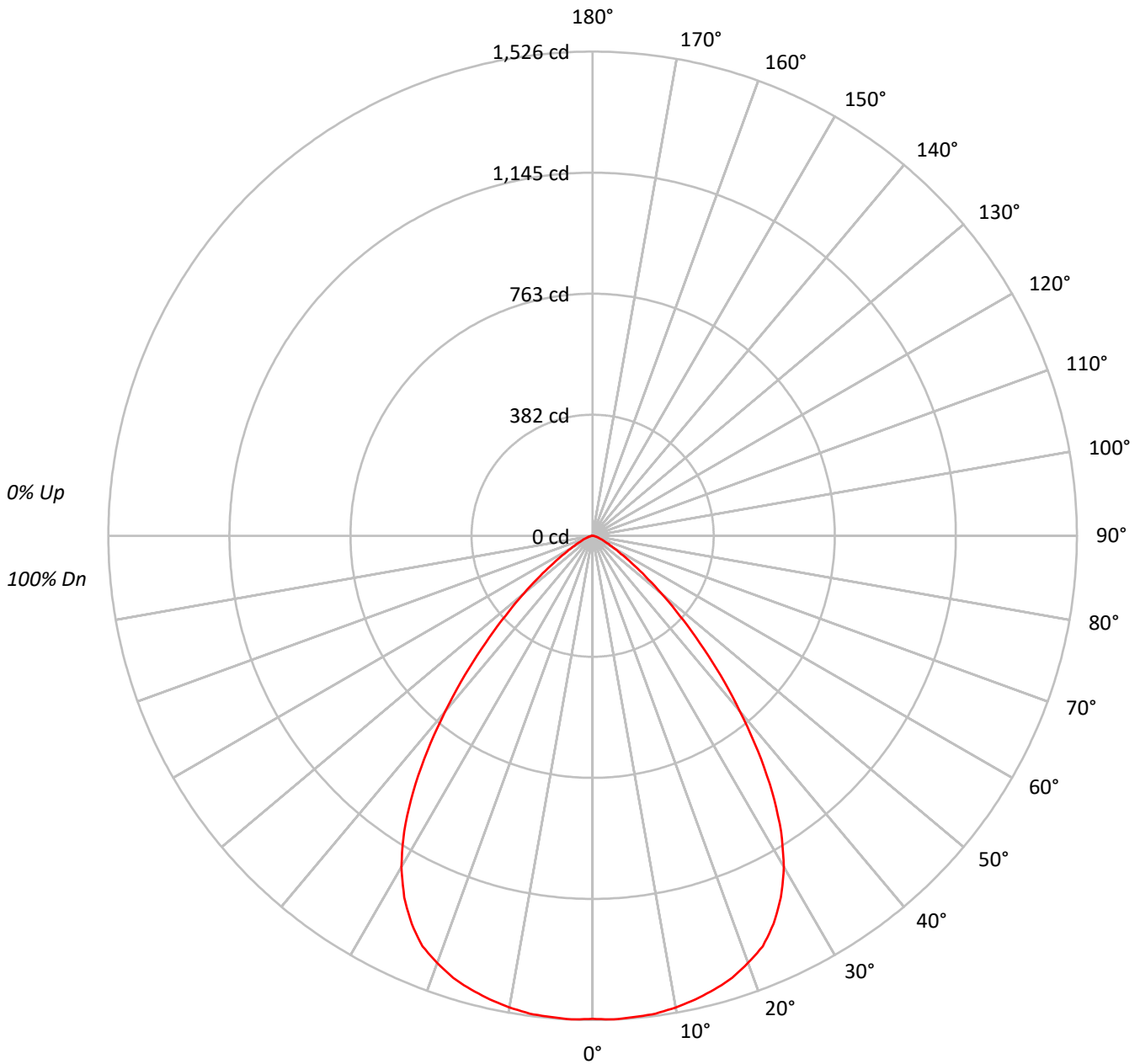
Lumens per Lamp: N/A  
Luminaire Lumens: 2361.9 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	187044
5°	187759
10°	188321
15°	188326
20°	187295
25°	182916
30°	170954
35°	148042
40°	115646
45°	82979
50°	53898
55°	32257
60°	18895
65°	12122
70°	8082
75°	6076
80°	4528
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	6.1
10°-20°	417.8	17.7
20°-30°	616.5	26.1
30°-40°	608.3	25.8
40°-50°	372.3	15.8
50°-60°	142.7	6.0
60°-70°	44.6	1.9
70°-80°	13.1	0.6
80°-90°	1.7	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°	1179.2	49.9
0°-40°	1787.5	75.7
0°-60°	2302.5	97.5
0°-90°	2361.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1522	
5°	1522	145
15°	1481	418
25°	1349	616
35°	987	608
45°	478	372
55°	151	143
65°	42	45
75°	13	13
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1522.5
2.5°	1525.7
5°	1522.5
7.5°	1519.2
10°	1509.6
12.5°	1496.8
15°	1480.7
17.5°	1461.5
20°	1432.6
22.5°	1400.7
25°	1349.4
27.5°	1285.2
30°	1205.1
32.5°	1105.8
35°	987.1
37.5°	855.7
40°	721.1
42.5°	596.1
45°	477.6
47.5°	371.7
50°	282.0
52.5°	208.4
55°	150.6
57.5°	105.7
60°	76.9
62.5°	57.7
65°	41.7
67.5°	32.1
70°	22.5
72.5°	16.0
75°	12.8
77.5°	6.4
80°	6.4
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)