

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: P572931

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572931
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-30-D010 FEU4C-X-90-27 F4X-W-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

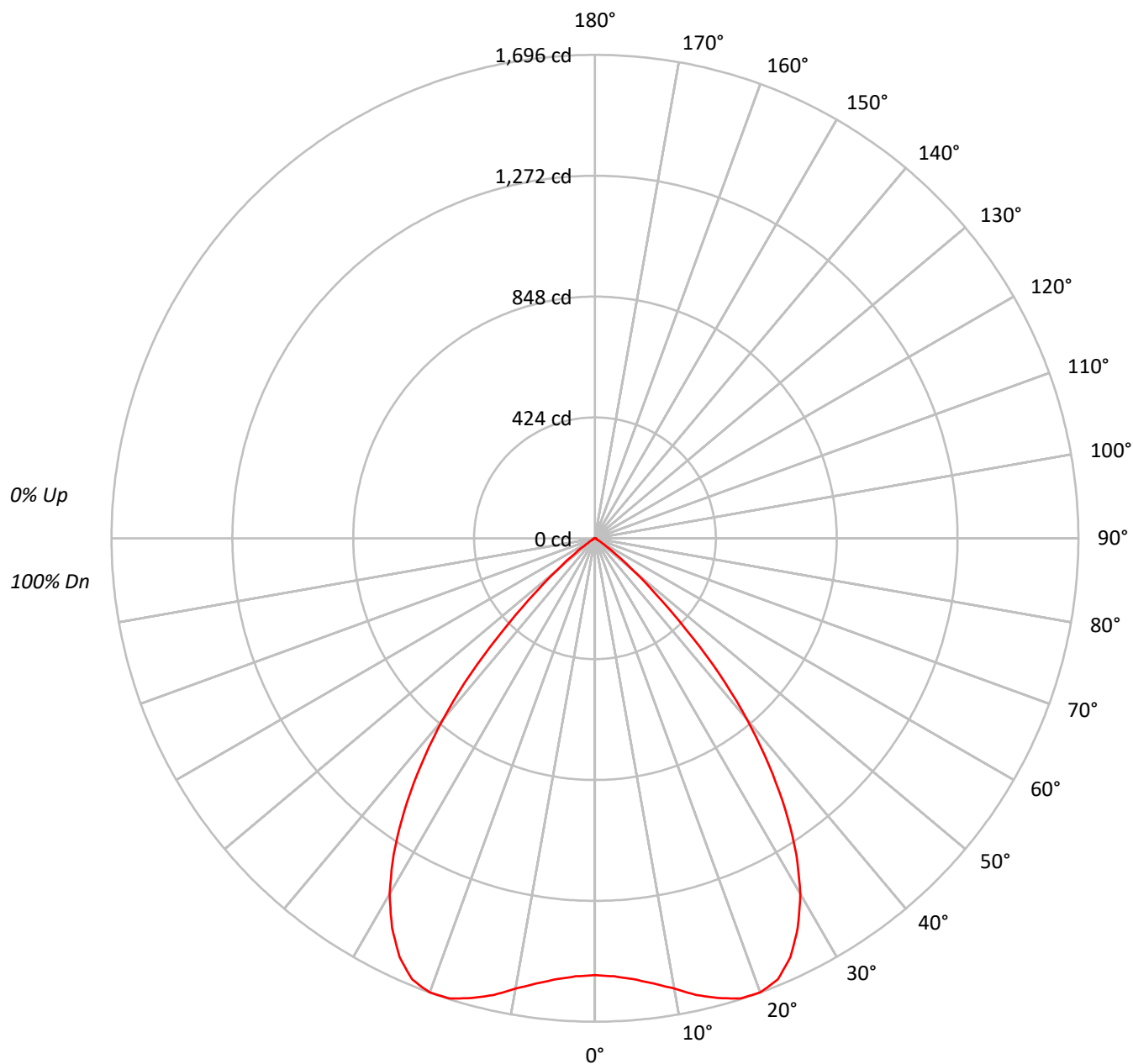
Lumens per Lamp: N/A
Luminaire Lumens: 2501.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P572931

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-LI-BL86

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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93		104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83		98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75		92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68		87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62		82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52		72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48		68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44		65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188248
5°	191446
10°	200097
15°	212390
20°	221692
25°	219773
30°	204376
35°	174842
40°	133206
45°	78131
50°	33390
55°	9831
60°	2826
65°	1657
70°	1042
75°	1377
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	6.0
10°-20°	472.9	18.9
20°-30°	737.8	29.5
30°-40°	717.8	28.7
40°-50°	358.5	14.3
50°-60°	55.5	2.2
60°-70°	6.7	0.3
70°-80°	1.9	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°	1360.5	54.4
0°-40°	2078.4	83.1
0°-60°	2492.4	99.7
0°-90°	2501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1532	
5°	1552	150
15°	1670	473
25°	1621	738
35°	1166	718
45°	450	359
55°	46	56
65°	6	7
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1532.3
2.5°	1538.1
5°	1552.4
7.5°	1575.4
10°	1604.0
12.5°	1641.2
15°	1669.9
17.5°	1692.8
20°	1695.7
22.5°	1675.6
25°	1621.3
27.5°	1541.0
30°	1440.7
32.5°	1314.8
35°	1165.8
37.5°	1002.4
40°	830.6
42.5°	647.4
45°	449.7
47.5°	289.3
50°	174.7
52.5°	94.5
55°	45.9
57.5°	20.1
60°	11.5
62.5°	8.6
65°	5.7
67.5°	5.7
70°	2.9
72.5°	2.9
75°	2.9
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)