

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: P572184

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-27 F4X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-10-D010 FEU4C-X-90-27 F4X-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

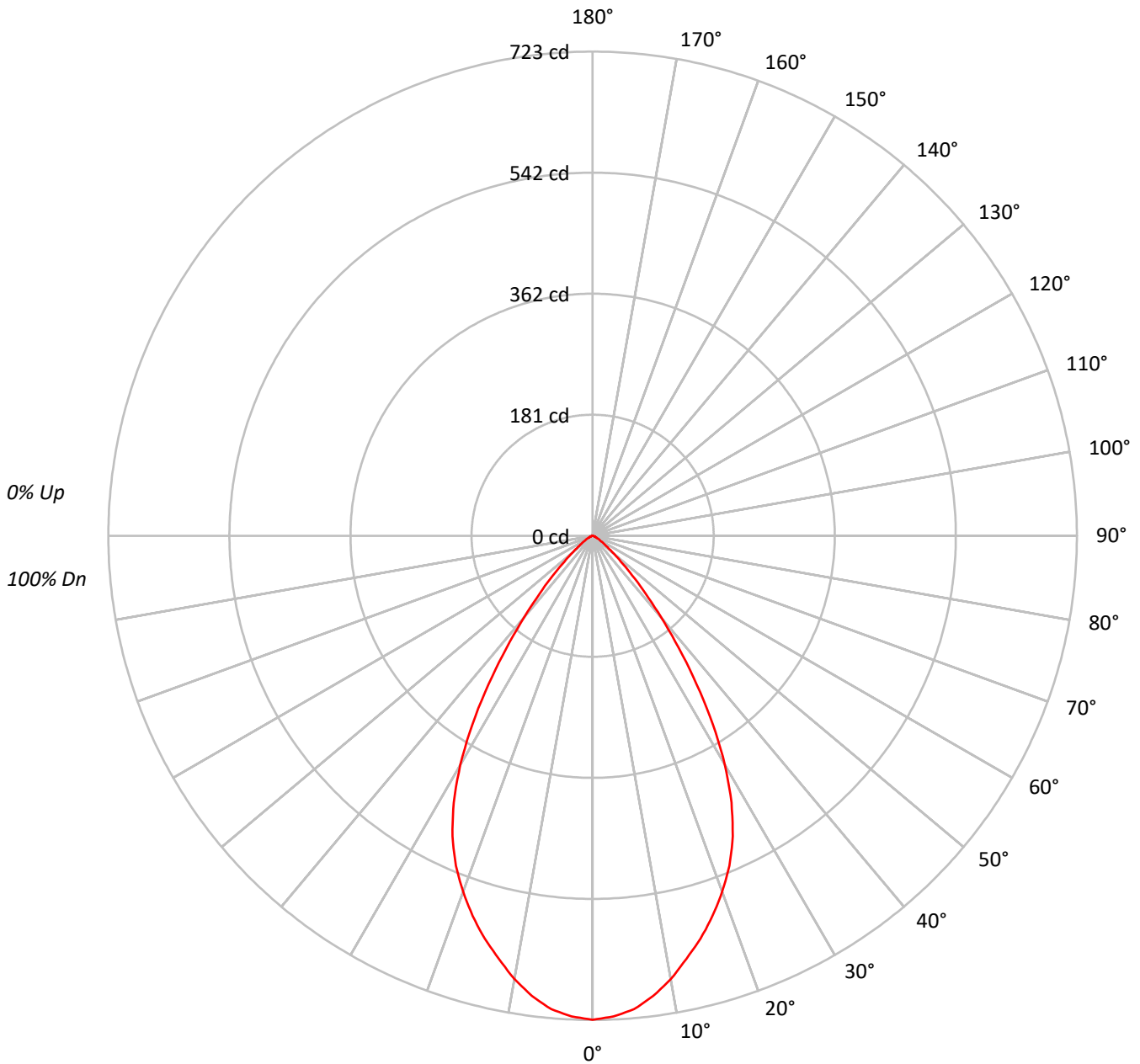
Lumens per Lamp: N/A
Luminaire Lumens: 729.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67				67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88798
5°	87510
10°	83856
15°	79200
20°	73932
25°	67113
30°	56034
35°	40599
40°	25403
45°	14525
50°	7569
55°	4241
60°	2703
65°	1599
70°	1185
75°	522
80°	778
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	9.1
10°-20°	174.5	23.9
20°-30°	224.3	30.8
30°-40°	168.7	23.1
40°-50°	67.7	9.3
50°-60°	19.3	2.6
60°-70°	6.1	0.8
70°-80°	1.7	0.2
80°-90°	0.1	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°	465.3	63.8
0°-40°	634.0	87.0
0°-60°	721.0	98.9
0°-90°	729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	710	67
15°	623	174
25°	495	224
35°	271	169
45°	84	68
55°	20	19
65°	6	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	722.8
2.5°	718.4
5°	709.6
7.5°	693.1
10°	672.2
12.5°	647.0
15°	622.7
17.5°	595.2
20°	565.5
22.5°	533.6
25°	495.1
27.5°	448.9
30°	395.0
32.5°	334.5
35°	270.7
37.5°	211.2
40°	158.4
42.5°	116.6
45°	83.6
47.5°	57.2
50°	39.6
52.5°	27.5
55°	19.8
57.5°	14.3
60°	11.0
62.5°	7.7
65°	5.5
67.5°	4.4
70°	3.3
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)