

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: P572040

Luminaire Tested: **FLD4C-08-D010 FEU4C-X-90-30 F4X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572040
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-08-D010 FEU4C-X-90-30 F4X-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

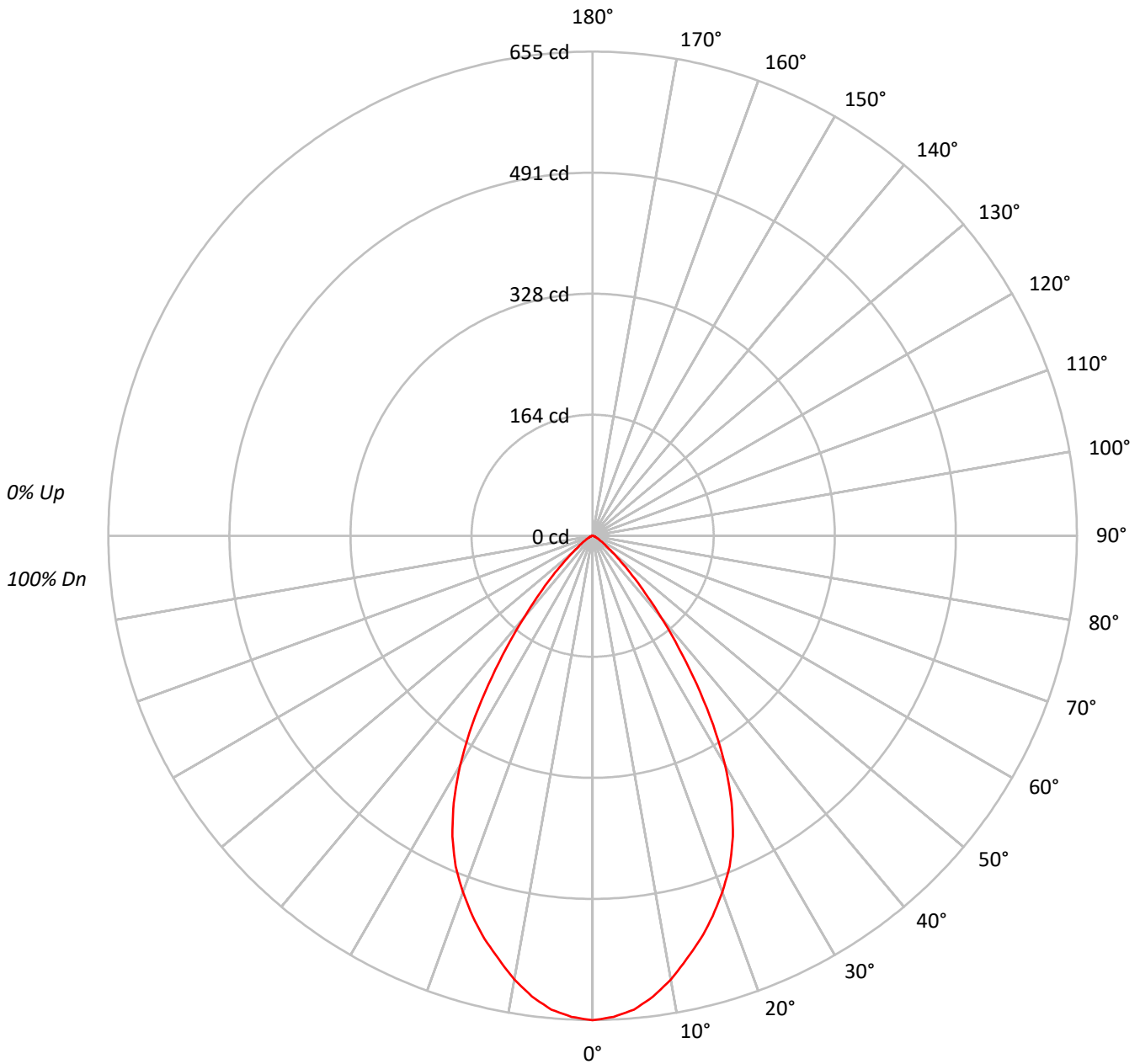
Lumens per Lamp: N/A
Luminaire Lumens: 661.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.87
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°	80518
5°	79346
10°	76034
15°	71810
20°	67042
25°	60850
30°	50814
35°	36804
40°	23046
45°	13170
50°	6861
55°	3855
60°	2457
65°	1453
70°	1078
75°	475
80°	707
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	9.1
10°-20°	158.2	23.9
20°-30°	203.3	30.8
30°-40°	153.0	23.1
40°-50°	61.4	9.3
50°-60°	17.5	2.6
60°-70°	5.5	0.8
70°-80°	1.6	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°	421.9	63.8
0°-40°	574.9	87.0
0°-60°	653.8	98.9
0°-90°	661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	655	
5°	643	60
15°	565	158
25°	449	203
35°	245	153
45°	76	61
55°	18	17
65°	5	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	655.4
2.5°	651.4
5°	643.4
7.5°	628.5
10°	609.5
12.5°	586.6
15°	564.6
17.5°	539.7
20°	512.8
22.5°	483.9
25°	448.9
27.5°	407.0
30°	358.2
32.5°	303.3
35°	245.4
37.5°	191.5
40°	143.7
42.5°	105.7
45°	75.8
47.5°	51.9
50°	35.9
52.5°	25.0
55°	18.0
57.5°	13.0
60°	10.0
62.5°	7.0
65°	5.0
67.5°	4.0
70°	3.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)