

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: P571956

Luminaire Tested: **FLD4C-05-D010 FEU4C-X-90-40 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571956
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-05-D010 FEU4C-X-90-40 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

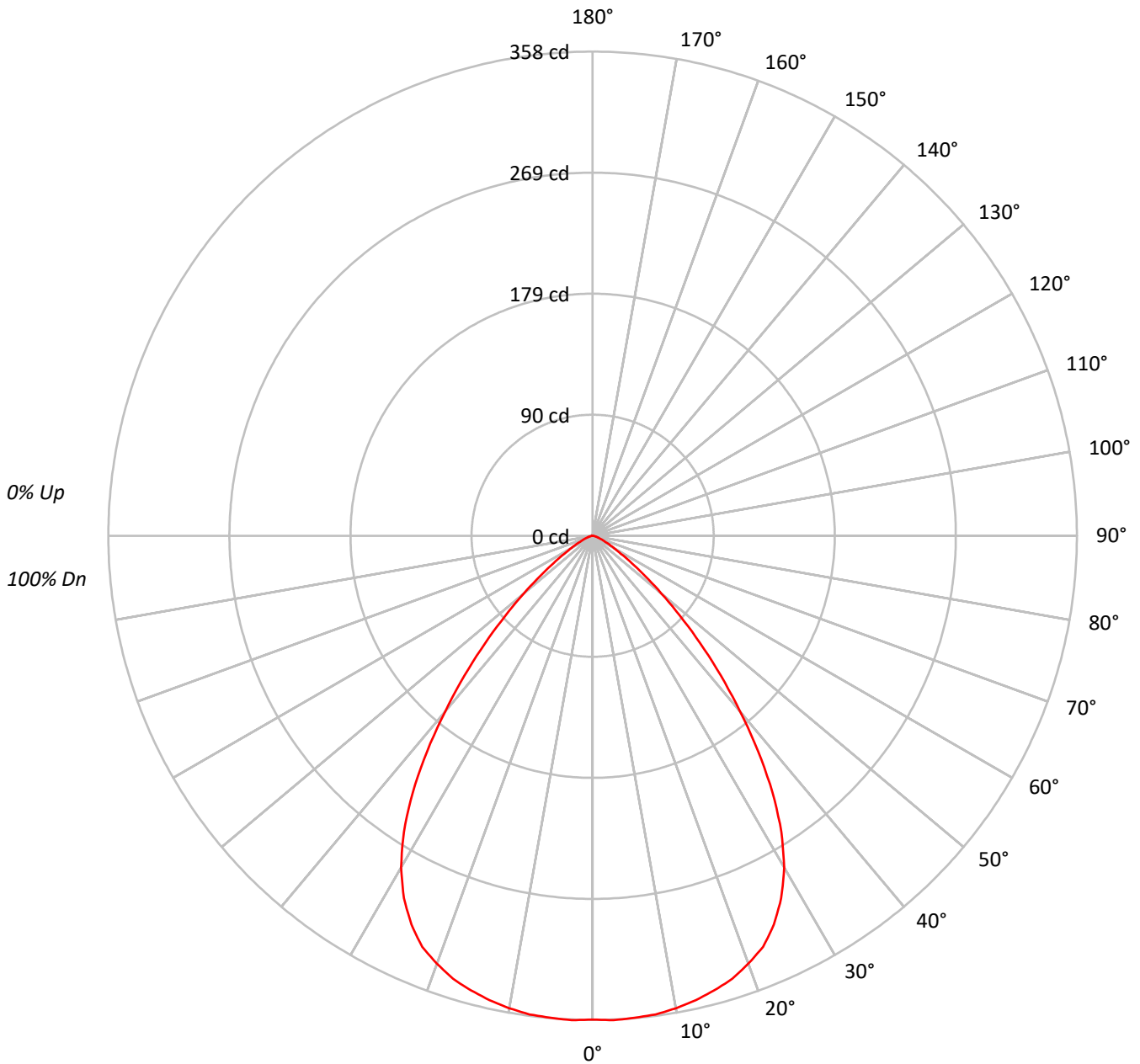
Lumens per Lamp: N/A
Luminaire Lumens: 555.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
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	67	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°	43945
5°	44113
10°	44248
15°	44248
20°	44006
25°	42984
30°	40174
35°	34780
40°	27167
45°	19494
50°	12672
55°	7582
60°	4447
65°	2849
70°	1904
75°	1424
80°	1061
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	6.1
10°-20°	98.2	17.7
20°-30°	144.9	26.1
30°-40°	142.9	25.8
40°-50°	87.5	15.8
50°-60°	33.5	6.0
60°-70°	10.5	1.9
70°-80°	3.1	0.6
80°-90°	0.4	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°	277.1	49.9
0°-40°	420.0	75.7
0°-60°	541.0	97.5
0°-90°	555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	555.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	358	
5°	358	34
15°	348	98
25°	317	145
35°	232	143
45°	112	87
55°	35	34
65°	10	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	357.7
2.5°	358.5
5°	357.7
7.5°	357.0
10°	354.7
12.5°	351.7
15°	347.9
17.5°	343.4
20°	336.6
22.5°	329.1
25°	317.1
27.5°	302.0
30°	283.2
32.5°	259.8
35°	231.9
37.5°	201.1
40°	169.4
42.5°	140.1
45°	112.2
47.5°	87.3
50°	66.3
52.5°	49.0
55°	35.4
57.5°	24.8
60°	18.1
62.5°	13.6
65°	9.8
67.5°	7.5
70°	5.3
72.5°	3.8
75°	3.0
77.5°	1.5
80°	1.5
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)