

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: P573780

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

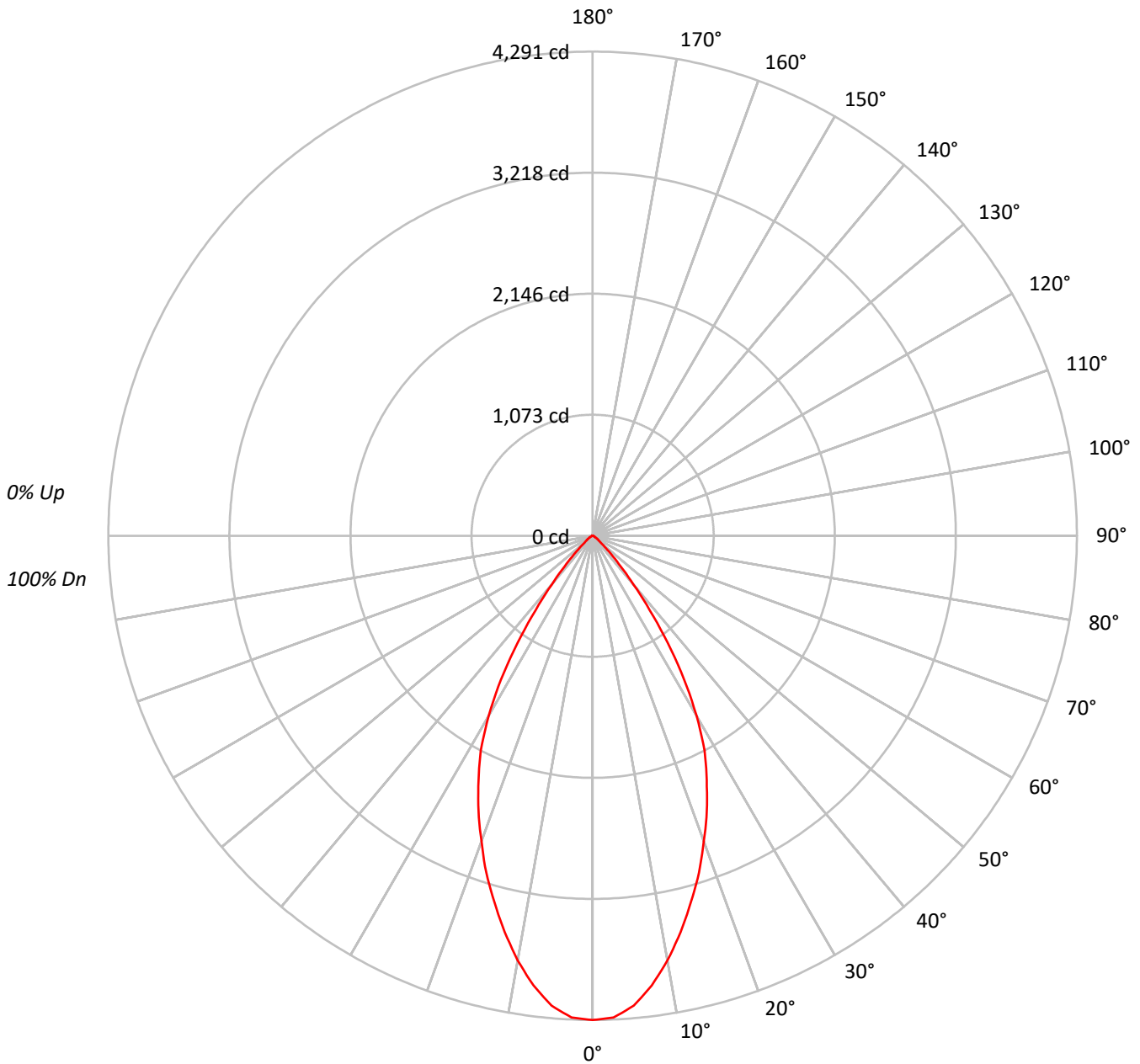
Lumens per Lamp: N/A
Luminaire Lumens: 3417.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	527213
5°	515489
10°	476615
15°	427667
20°	376473
25°	324001
30°	260907
35°	173688
40°	90355
45°	40899
50°	17756
55°	11909
60°	7617
65°	5407
70°	4454
75°	2943
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.2	11.3
10°-20°	939.2	27.5
20°-30°	1090.4	31.9
30°-40°	722.1	21.1
40°-50°	202.5	5.9
50°-60°	50.9	1.5
60°-70°	19.1	0.6
70°-80°	6.5	0.2
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°	2416.8	70.7
0°-40°	3138.9	91.8
0°-60°	3392.3	99.3
0°-90°	3417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4291	
5°	4180	387
15°	3362	939
25°	2390	1090
35°	1158	722
45°	235	203
55°	56	51
65°	19	19
75°	6	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4291.4
2.5°	4272.8
5°	4180.0
7.5°	4018.8
10°	3820.6
12.5°	3597.7
15°	3362.5
17.5°	3133.3
20°	2879.6
22.5°	2644.2
25°	2390.2
27.5°	2148.8
30°	1839.2
32.5°	1510.9
35°	1158.1
37.5°	829.8
40°	563.4
42.5°	365.2
45°	235.4
47.5°	142.5
50°	92.9
52.5°	68.0
55°	55.6
57.5°	43.5
60°	31.0
62.5°	24.8
65°	18.6
67.5°	12.4
70°	12.4
72.5°	6.2
75°	6.2
77.5°	6.2
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)