

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: P573708

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-35 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573708
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-90-35 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

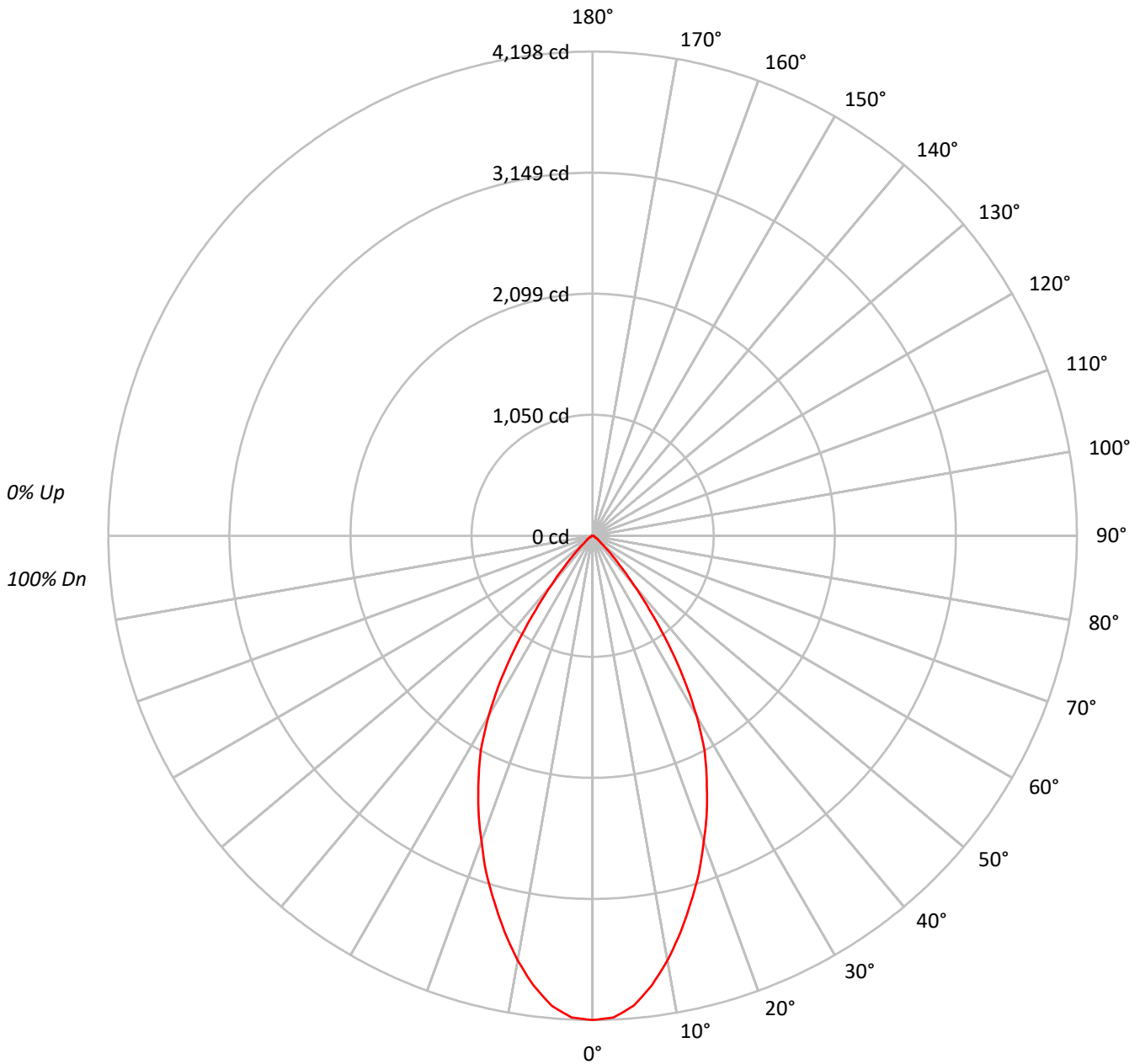
Lumens per Lamp: N/A
Luminaire Lumens: 3344.1 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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°	515800
5°	504328
10°	466298
15°	418408
20°	368315
25°	316979
30°	255261
35°	169923
40°	88398
45°	40013
50°	17373
55°	11652
60°	7469
65°	5291
70°	4382
75°	2895
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	11.3
10°-20°	918.9	27.5
20°-30°	1066.8	31.9
30°-40°	706.5	21.1
40°-50°	198.2	5.9
50°-60°	49.8	1.5
60°-70°	18.7	0.6
70°-80°	6.4	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°	2364.5	70.7
0°-40°	3070.9	91.8
0°-60°	3318.9	99.2
0°-90°	3344.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4198	
5°	4090	379
15°	3290	919
25°	2338	1067
35°	1133	706
45°	230	198
55°	54	50
65°	18	19
75°	6	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4198.5
2.5°	4180.3
5°	4089.5
7.5°	3931.8
10°	3737.9
12.5°	3519.8
15°	3289.7
17.5°	3065.5
20°	2817.2
22.5°	2586.9
25°	2338.4
27.5°	2102.3
30°	1799.4
32.5°	1478.2
35°	1133.0
37.5°	811.9
40°	551.2
42.5°	357.3
45°	230.3
47.5°	139.5
50°	90.9
52.5°	66.6
55°	54.4
57.5°	42.5
60°	30.4
62.5°	24.3
65°	18.2
67.5°	12.2
70°	12.2
72.5°	6.1
75°	6.1
77.5°	6.1
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)