

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: P571974

Luminaire Tested: **FLD4C-05-D010 FEU4C-X-90-50 F4X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-90-50 F4X-M-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

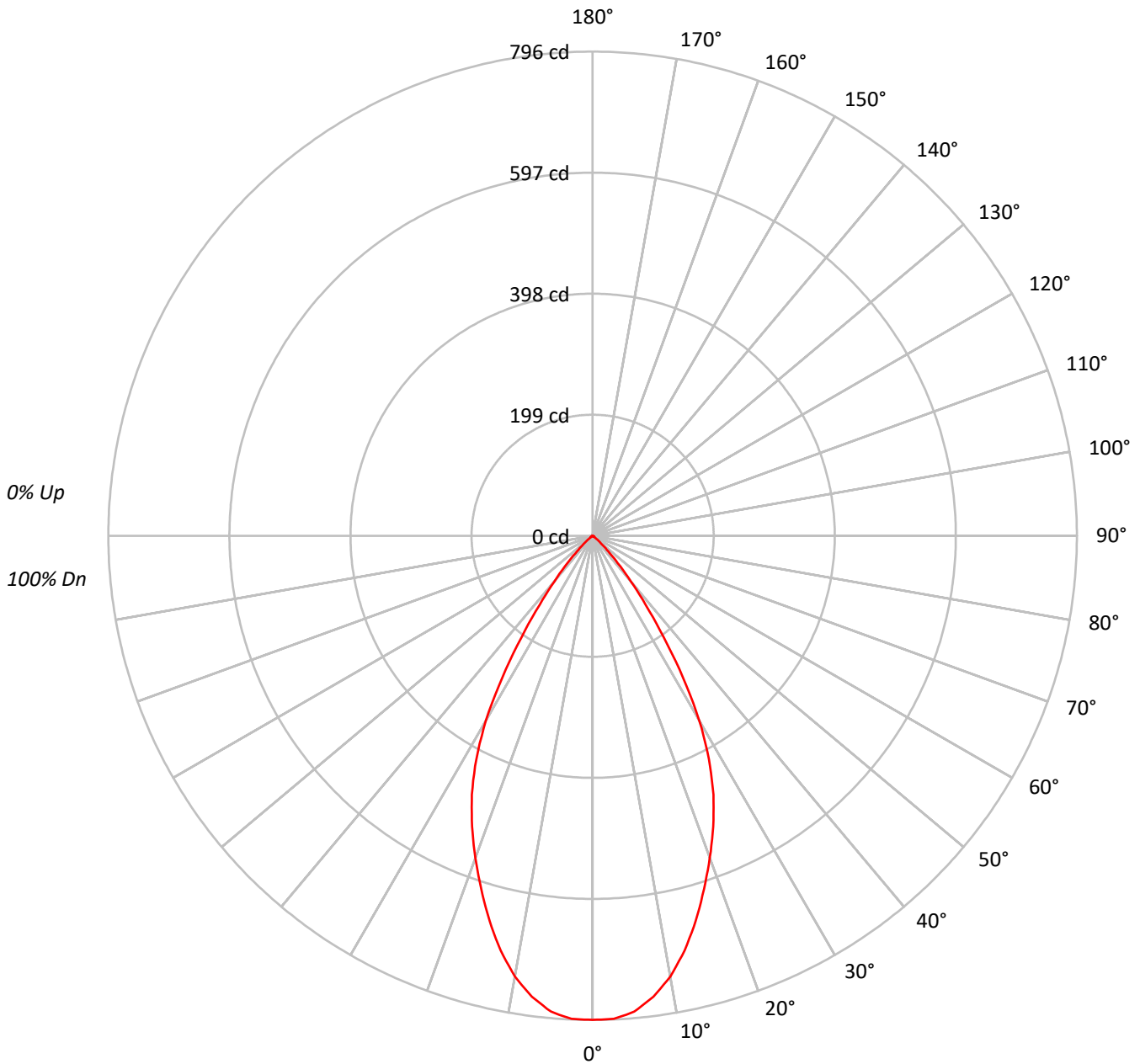
Lumens per Lamp: N/A
Luminaire Lumens: 636.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									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	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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94																											
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																											
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82																											
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76																											
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71																											
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																											
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																											
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59																											
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																											
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97779
5°	96858
10°	91778
15°	83320
20°	73632
25°	63656
30°	49764
35°	30520
40°	15669
45°	6220
50°	2026
55°	707
60°	590
65°	465
70°	287
75°	380
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	11.5
10°-20°	182.5	28.7
20°-30°	212.2	33.4
30°-40°	130.0	20.4
40°-50°	32.3	5.1
50°-60°	3.8	0.6
60°-70°	1.4	0.2
70°-80°	0.5	0.1
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°	468.1	73.6
0°-40°	598.0	94.0
0°-60°	634.1	99.7
0°-90°	636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	785	73
15°	655	183
25°	470	212
35°	204	130
45°	36	32
55°	3	4
65°	2	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	795.9
2.5°	795.1
5°	785.4
7.5°	764.2
10°	735.7
12.5°	698.3
15°	655.1
17.5°	608.7
20°	563.2
22.5°	517.6
25°	469.6
27.5°	414.2
30°	350.8
32.5°	276.7
35°	203.5
37.5°	143.2
40°	97.7
42.5°	61.0
45°	35.8
47.5°	20.4
50°	10.6
52.5°	4.9
55°	3.3
57.5°	2.4
60°	2.4
62.5°	1.6
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.0
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)