

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: P571648

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571648
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-02-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

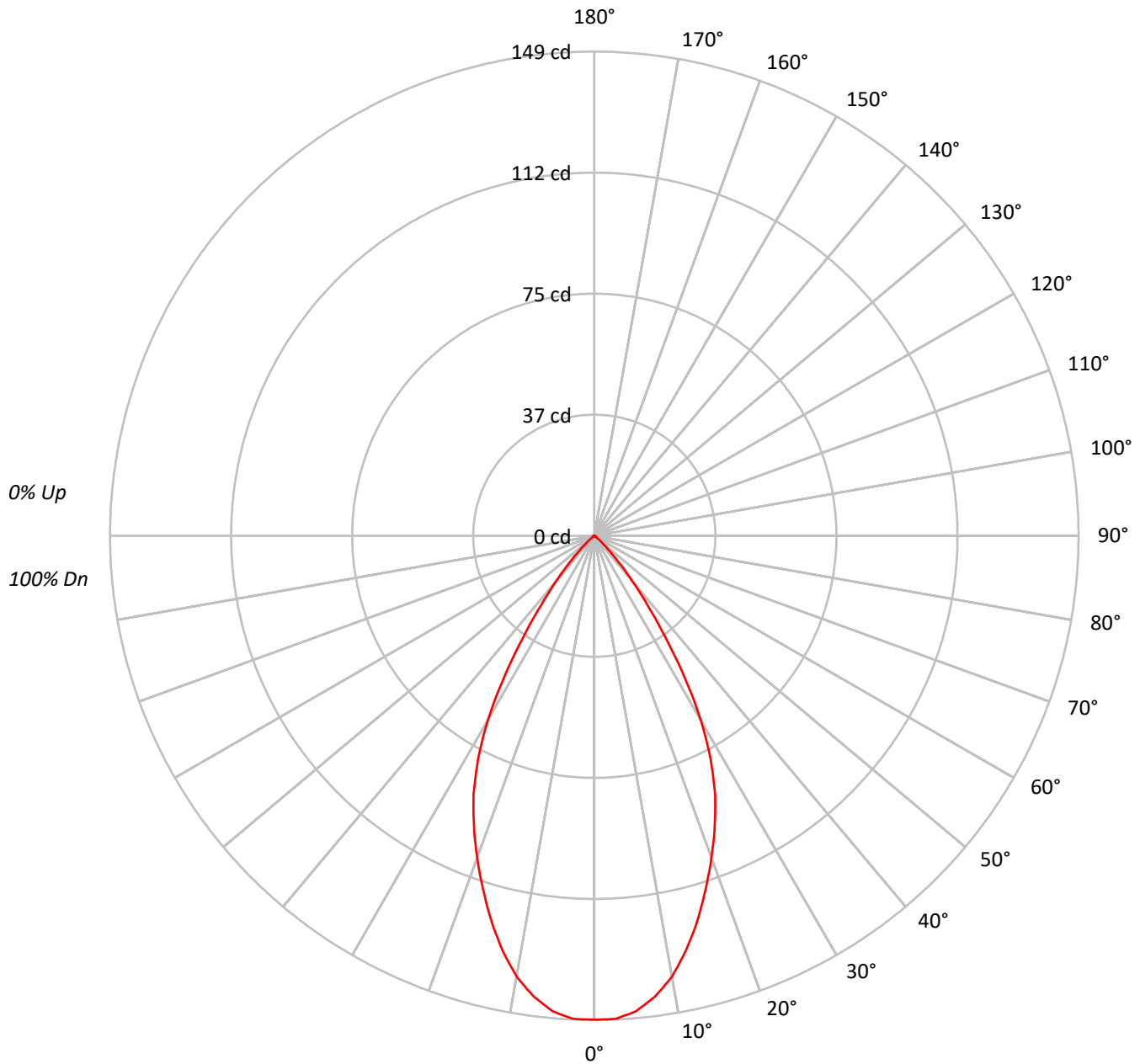
Lumens per Lamp: N/A
Luminaire Lumens: 119.1 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): NR
Input Current (Ain): 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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94						
2	108	103	99	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	84	88	85	83	82						
4	98	90	85	81	96	89	84	80	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°	18293
5°	18116
10°	17178
15°	15593
20°	13780
25°	11915
30°	9306
35°	5714
40°	2935
45°	1164
50°	382
55°	129
60°	123
65°	87
70°	72
75°	95
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	11.5
10°-20°	34.2	28.7
20°-30°	39.7	33.3
30°-40°	24.3	20.4
40°-50°	6.0	5.1
50°-60°	0.7	0.6
60°-70°	0.3	0.2
70°-80°	0.1	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°	87.6	73.6
0°-40°	111.9	94.0
0°-60°	118.7	99.7
0°-90°	119.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	119.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	149	
5°	147	14
15°	123	34
25°	88	40
35°	38	24
45°	7	6
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	148.9
2.5°	148.8
5°	146.9
7.5°	143.0
10°	137.7
12.5°	130.6
15°	122.6
17.5°	113.9
20°	105.4
22.5°	96.8
25°	87.9
27.5°	77.5
30°	65.6
32.5°	51.8
35°	38.1
37.5°	26.8
40°	18.3
42.5°	11.4
45°	6.7
47.5°	3.8
50°	2.0
52.5°	0.9
55°	0.6
57.5°	0.5
60°	0.5
62.5°	0.3
65°	0.3
67.5°	0.2
70°	0.2
72.5°	0.2
75°	0.2
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)