

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: P573532

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-N-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-45-D010 FEU4C-X-90-35 F4X-N-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

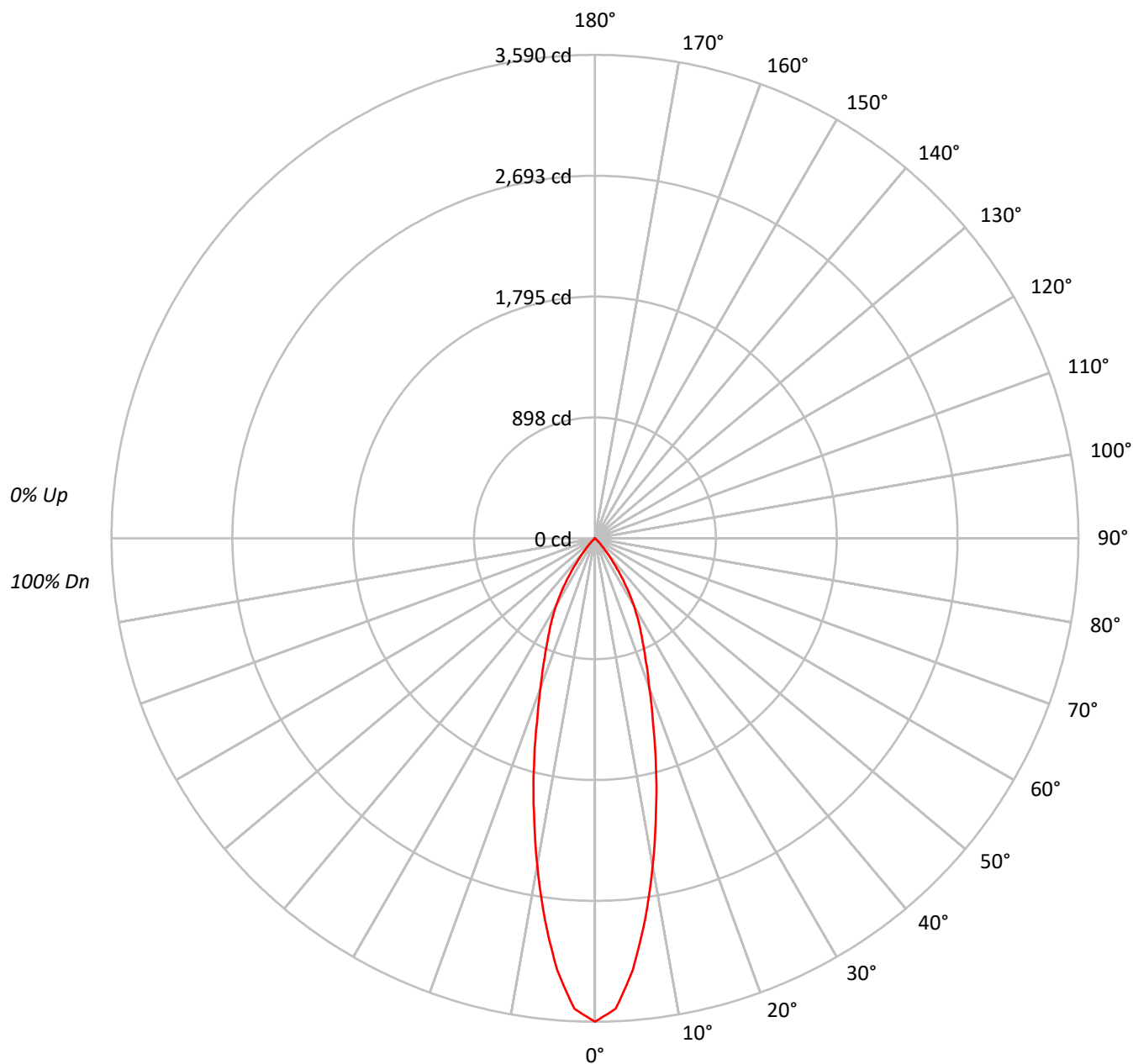
Lumens per Lamp: N/A
Luminaire Lumens: 1395.1 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95						
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90						
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85						
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81						
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77						
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73						
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69						
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66						
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63						
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	441032
5°	396890
10°	307668
15°	222692
20°	154192
25°	112415
30°	81682
35°	48337
40°	20335
45°	6342
50°	822
55°	471
60°	541
65°	640
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	20.3
10°-20°	484.3	34.7
20°-30°	384.9	27.6
30°-40°	203.8	14.6
40°-50°	35.1	2.5
50°-60°	2.7	0.2
60°-70°	1.3	0.1
70°-80°	0.0	0.0
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°	1152.2	82.6
0°-40°	1356.0	97.2
0°-60°	1393.7	99.9
0°-90°	1395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3590	
5°	3218	283
15°	1751	484
25°	829	385
35°	322	204
45°	36	35
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3589.9
2.5°	3497.5
5°	3218.3
7.5°	2853.1
10°	2466.3
12.5°	2092.5
15°	1750.9
17.5°	1432.9
20°	1179.4
22.5°	986.1
25°	829.3
27.5°	702.5
30°	575.8
32.5°	446.9
35°	322.3
37.5°	212.7
40°	126.8
42.5°	73.1
45°	36.5
47.5°	12.9
50°	4.3
52.5°	4.3
55°	2.2
57.5°	2.2
60°	2.2
62.5°	2.2
65°	2.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)