

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: P573605

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-N-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573605
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-90-50 F4X-N-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

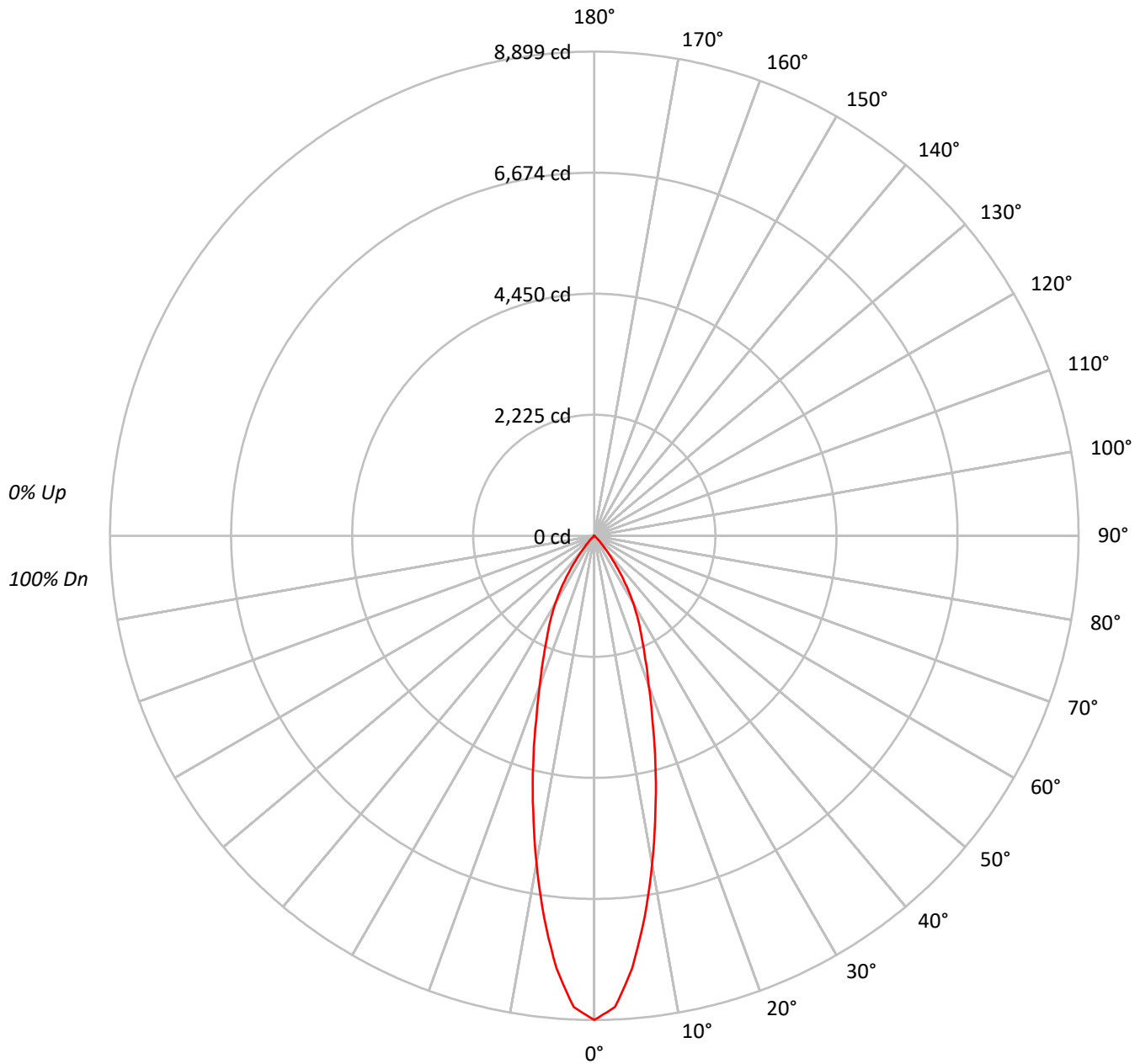
Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	1093261
5°	983820
10°	762676
15°	552018
20°	382225
25°	278658
30°	202475
35°	119816
40°	50389
45°	15706
50°	2045
55°	1135
60°	1302
65°	1541
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.3	20.3
10°-20°	1200.6	34.7
20°-30°	954.2	27.6
30°-40°	505.1	14.6
40°-50°	87.0	2.5
50°-60°	6.5	0.2
60°-70°	3.2	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°	2856.1	82.6
0°-40°	3361.2	97.2
0°-60°	3454.7	99.9
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8899	
5°	7978	701
15°	4340	1201
25°	2056	954
35°	799	505
45°	90	87
55°	5	7
65°	5	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8898.9
2.5°	8669.8
5°	7977.6
7.5°	7072.3
10°	6113.7
12.5°	5187.1
15°	4340.2
17.5°	3552.0
20°	2923.6
22.5°	2444.3
25°	2055.7
27.5°	1741.5
30°	1427.3
32.5°	1107.7
35°	798.9
37.5°	527.3
40°	314.2
42.5°	181.1
45°	90.4
47.5°	32.0
50°	10.7
52.5°	10.7
55°	5.3
57.5°	5.3
60°	5.3
62.5°	5.3
65°	5.3
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



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)