

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: P573557

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573557
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-45-D010 FEU4C-X-90-40 F4X-M-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

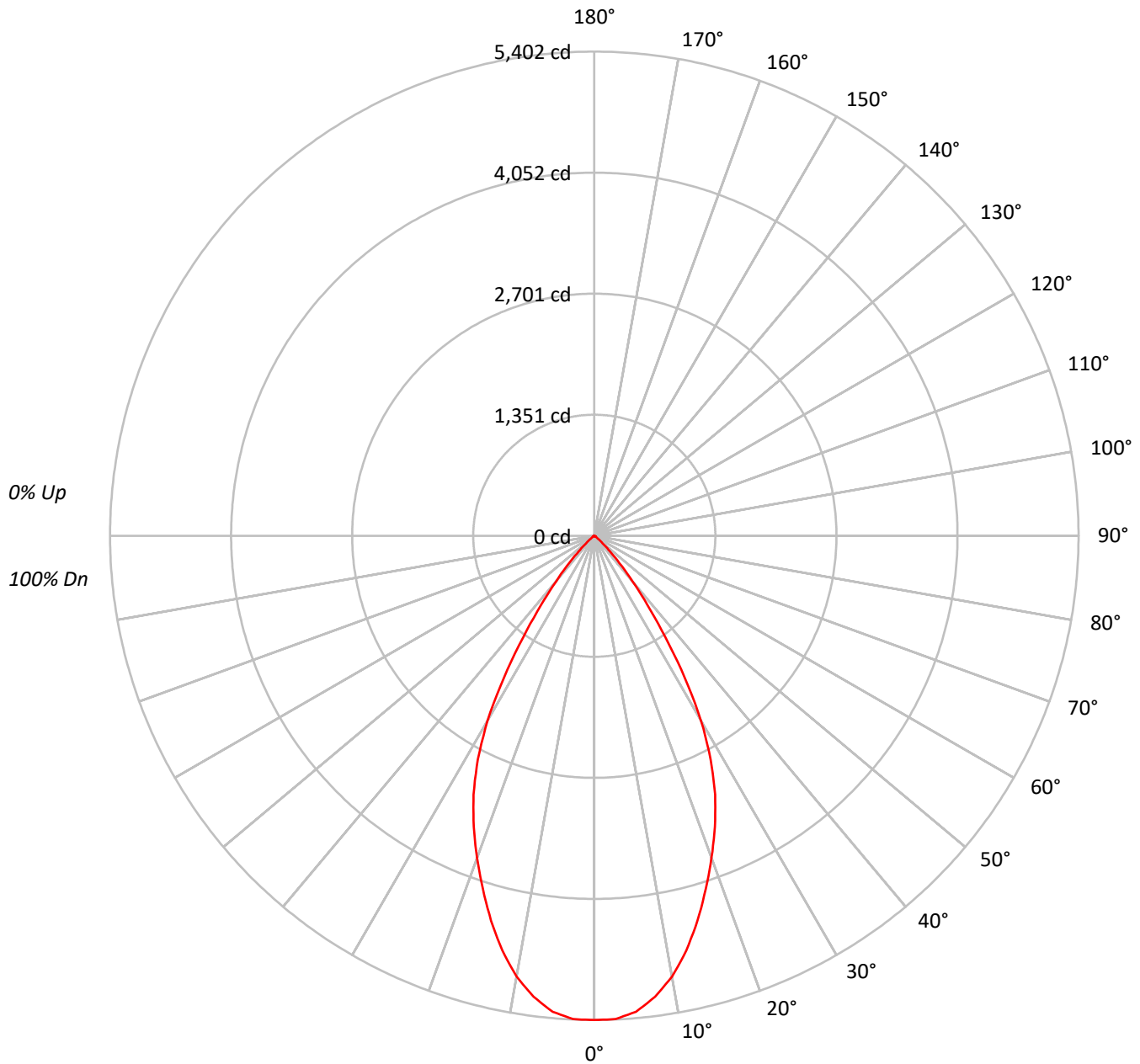
Lumens per Lamp: N/A
Luminaire Lumens: 4317.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	663716
5°	657409
10°	622945
15°	565576
20°	499772
25°	432064
30°	337738
35°	207117
40°	106312
45°	42236
50°	13723
55°	4734
60°	4054
65°	3227
70°	2012
75°	2658
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	11.5
10°-20°	1239.1	28.7
20°-30°	1440.4	33.4
30°-40°	882.0	20.4
40°-50°	219.0	5.1
50°-60°	25.6	0.6
60°-70°	9.6	0.2
70°-80°	3.7	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°	3177.1	73.6
0°-40°	4059.2	94.0
0°-60°	4303.8	99.7
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5402	
5°	5331	498
15°	4447	1239
25°	3187	1440
35°	1381	882
45°	243	219
55°	22	26
65°	11	10
75°	6	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5402.5
2.5°	5397.0
5°	5330.8
7.5°	5187.1
10°	4993.6
12.5°	4739.6
15°	4446.8
17.5°	4132.0
20°	3822.7
22.5°	3513.2
25°	3187.4
27.5°	2811.8
30°	2380.8
32.5°	1878.2
35°	1381.0
37.5°	972.2
40°	662.9
42.5°	414.2
45°	243.1
47.5°	138.1
50°	71.8
52.5°	33.2
55°	22.1
57.5°	16.5
60°	16.5
62.5°	11.1
65°	11.1
67.5°	5.6
70°	5.6
72.5°	5.6
75°	5.6
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)