

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: P573400

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-40 F4X-W-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-40-D010 FEU4C-X-90-40 F4X-W-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

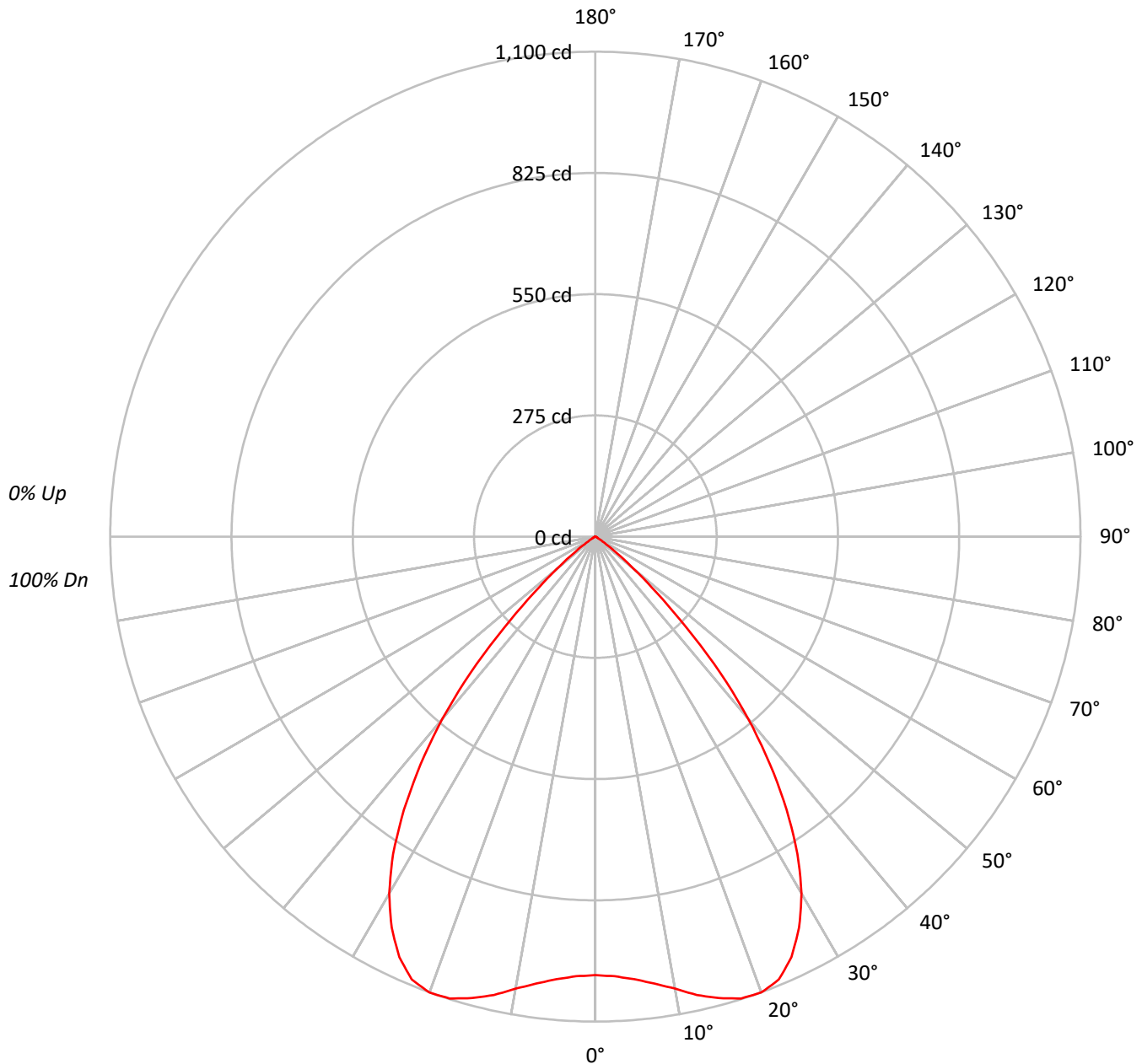
Lumens per Lamp: N/A
Luminaire Lumens: 1623.0 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122165
5°	124235
10°	129851
15°	137833
20°	143864
25°	142616
30°	132624
35°	113457
40°	86441
45°	50698
50°	21674
55°	6383
60°	1818
65°	1076
70°	682
75°	902
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	6.0
10°-20°	306.9	18.9
20°-30°	478.8	29.5
30°-40°	465.8	28.7
40°-50°	232.7	14.3
50°-60°	36.0	2.2
60°-70°	4.3	0.3
70°-80°	1.2	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°	882.9	54.4
0°-40°	1348.7	83.1
0°-60°	1617.4	99.7
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	994	
5°	1007	97
15°	1084	307
25°	1052	479
35°	756	466
45°	292	233
55°	30	36
65°	4	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	994.4
2.5°	998.1
5°	1007.4
7.5°	1022.3
10°	1040.9
12.5°	1065.0
15°	1083.7
17.5°	1098.5
20°	1100.4
22.5°	1087.4
25°	1052.1
27.5°	1000.0
30°	934.9
32.5°	853.2
35°	756.5
37.5°	650.5
40°	539.0
42.5°	420.1
45°	291.8
47.5°	187.7
50°	113.4
52.5°	61.3
55°	29.8
57.5°	13.0
60°	7.4
62.5°	5.6
65°	3.7
67.5°	3.7
70°	1.9
72.5°	1.9
75°	1.9
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)