

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: P573615

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573615
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-45-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

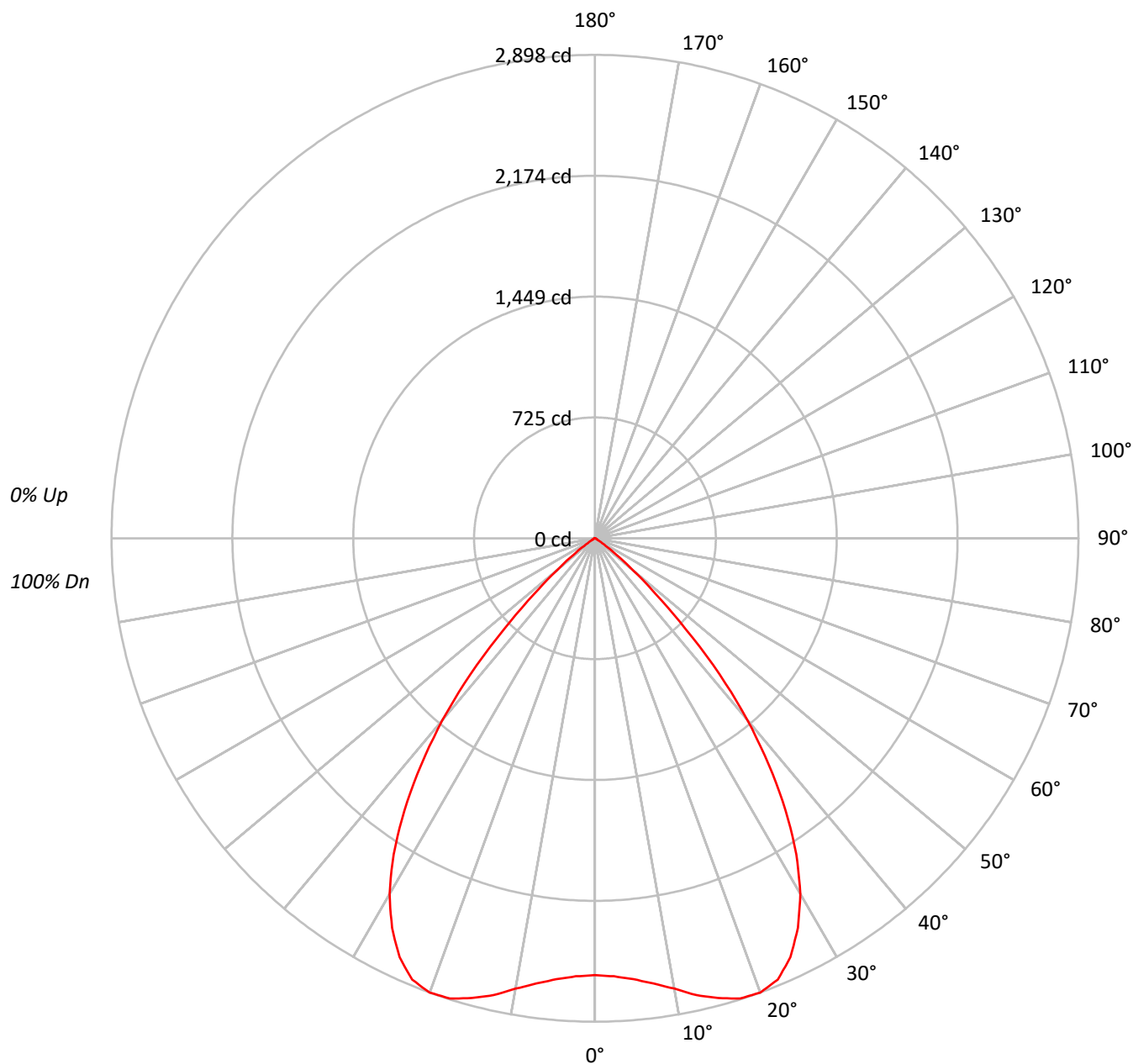
Lumens per Lamp: N/A
Luminaire Lumens: 4274.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105		110	108	105	103		104	102	100			100	98	97			96
2	106	101	97	93		104	99	95	92		96	93	90			93	90	88			90
3	100	93	87	83		98	92	86	82		89	85	81			86	83	80			84
4	94	86	79	75		92	84	79	74		82	77	73			80	76	72			78
5	88	79	72	68		87	78	72	67		76	71	67			74	70	66			73
6	83	73	66	62		82	72	66	61		71	65	61			69	64	60			68
7	78	68	61	56		77	67	61	56		66	60	56			64	59	55			63
8	74	63	56	52		72	62	56	51		61	55	51			60	55	51			59
9	69	59	52	48		68	58	52	47		57	51	47			56	51	47			55
10	66	55	48	44		65	54	48	44		53	48	44			53	47	44			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321716
5°	327175
10°	341961
15°	362954
20°	378852
25°	375565
30°	349271
35°	298783
40°	227651
45°	133537
50°	57051
55°	16792
60°	4816
65°	2849
70°	1760
75°	2326
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	6.0
10°-20°	808.2	18.9
20°-30°	1260.8	29.5
30°-40°	1226.7	28.7
40°-50°	612.7	14.3
50°-60°	94.9	2.2
60°-70°	11.5	0.3
70°-80°	3.2	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°	2325.1	54.4
0°-40°	3551.8	83.1
0°-60°	4259.3	99.7
0°-90°	4274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4274.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2619	
5°	2653	256
15°	2854	808
25°	2771	1261
35°	1992	1227
45°	769	613
55°	78	95
65°	10	11
75°	5	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2618.7
2.5°	2628.5
5°	2653.0
7.5°	2692.2
10°	2741.2
12.5°	2804.7
15°	2853.7
17.5°	2892.9
20°	2897.8
22.5°	2863.5
25°	2770.6
27.5°	2633.4
30°	2462.1
32.5°	2246.9
35°	1992.2
37.5°	1713.1
40°	1419.5
42.5°	1106.3
45°	768.6
47.5°	494.3
50°	298.5
52.5°	161.5
55°	78.4
57.5°	34.3
60°	19.6
62.5°	14.7
65°	9.8
67.5°	9.8
70°	4.9
72.5°	4.9
75°	4.9
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)