

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: P573539

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

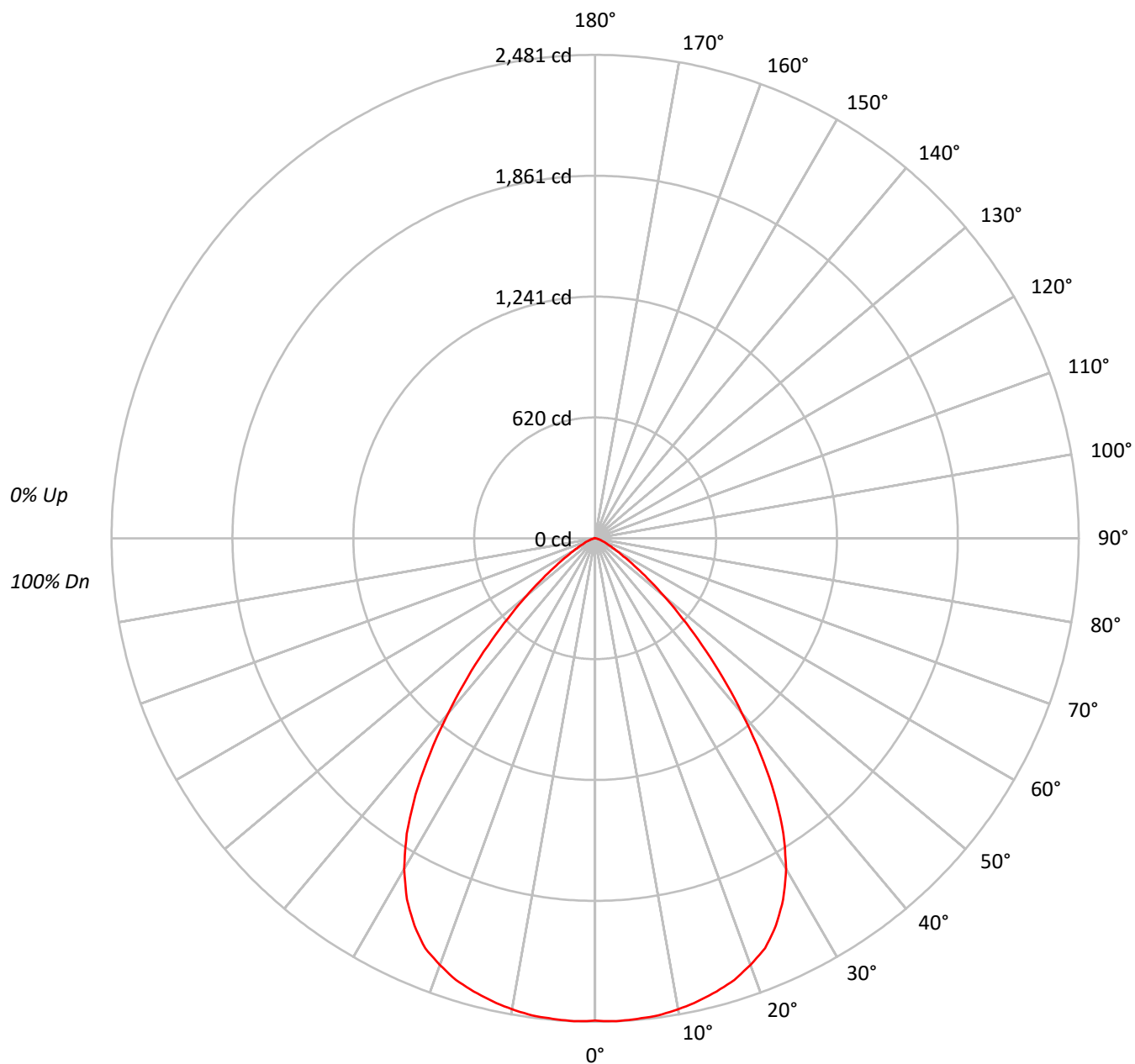
Lumens per Lamp: N/A
Luminaire Lumens: 3841.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	304161
5°	305322
10°	306246
15°	306254
20°	304580
25°	297446
30°	278001
35°	240742
40°	188070
45°	134927
50°	87650
55°	52476
60°	30713
65°	19709
70°	13111
75°	9921
80°	7358
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	6.1
10°-20°	679.3	17.7
20°-30°	1002.5	26.1
30°-40°	989.3	25.8
40°-50°	605.4	15.8
50°-60°	232.1	6.0
60°-70°	72.6	1.9
70°-80°	21.3	0.6
80°-90°	2.8	0.1
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°	1917.6	49.9
0°-40°	2906.8	75.7
0°-60°	3744.3	97.5
0°-90°	3841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2476	
5°	2476	236
15°	2408	679
25°	2194	1002
35°	1605	989
45°	777	605
55°	245	232
65°	68	73
75°	21	21
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2475.8
2.5°	2481.0
5°	2475.8
7.5°	2470.5
10°	2454.9
12.5°	2434.0
15°	2407.9
17.5°	2376.6
20°	2329.7
22.5°	2277.7
25°	2194.3
27.5°	2089.9
30°	1959.7
32.5°	1798.2
35°	1605.2
37.5°	1391.5
40°	1172.7
42.5°	969.4
45°	776.6
47.5°	604.5
50°	458.6
52.5°	338.9
55°	245.0
57.5°	171.9
60°	125.0
62.5°	93.9
65°	67.8
67.5°	52.2
70°	36.5
72.5°	26.1
75°	20.9
77.5°	10.4
80°	10.4
82.5°	5.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)