

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: P571739

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-35 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571739
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-02-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

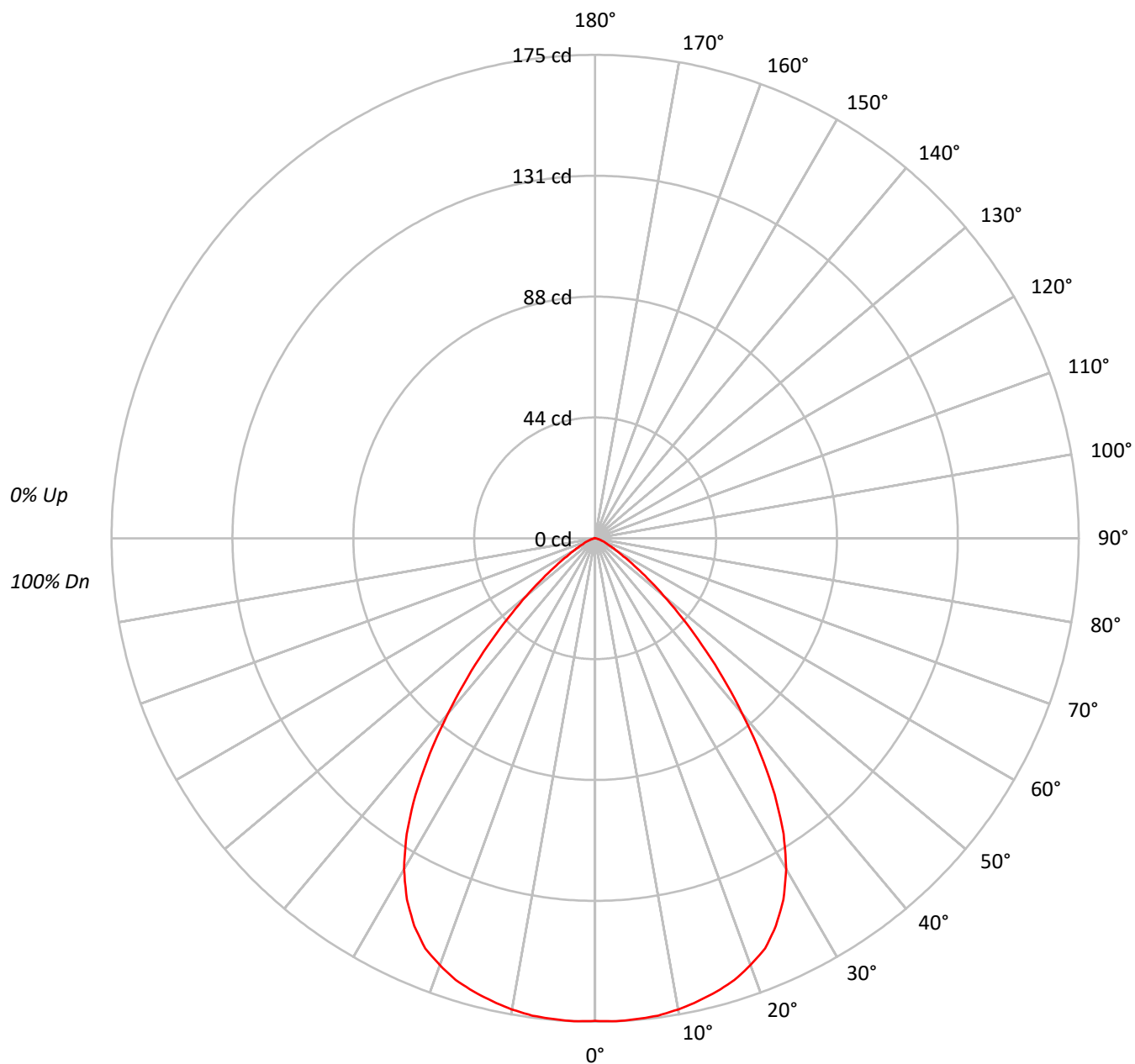
Lumens per Lamp: N/A
Luminaire Lumens: 271.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			91
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			82
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			74
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			67
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			61
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			55
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			50
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			46
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			43
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21463
5°	21544
10°	21606
15°	21609
20°	21493
25°	20984
30°	19619
35°	16992
40°	13263
45°	9521
50°	6192
55°	3705
60°	2162
65°	1395
70°	934
75°	712
80°	495
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	6.1
10°-20°	47.9	17.7
20°-30°	70.7	26.1
30°-40°	69.8	25.8
40°-50°	42.7	15.8
50°-60°	16.4	6.0
60°-70°	5.1	1.9
70°-80°	1.5	0.5
80°-90°	0.2	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°	135.3	49.9
0°-40°	205.1	75.7
0°-60°	264.2	97.5
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	175	
5°	175	17
15°	170	48
25°	155	71
35°	113	70
45°	55	43
55°	17	16
65°	5	5
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	174.7
2.5°	175.0
5°	174.7
7.5°	174.3
10°	173.2
12.5°	171.7
15°	169.9
17.5°	167.7
20°	164.4
22.5°	160.7
25°	154.8
27.5°	147.5
30°	138.3
32.5°	126.9
35°	113.3
37.5°	98.2
40°	82.7
42.5°	68.4
45°	54.8
47.5°	42.6
50°	32.4
52.5°	23.9
55°	17.3
57.5°	12.1
60°	8.8
62.5°	6.6
65°	4.8
67.5°	3.7
70°	2.6
72.5°	1.8
75°	1.5
77.5°	0.7
80°	0.7
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)