

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: P573515

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

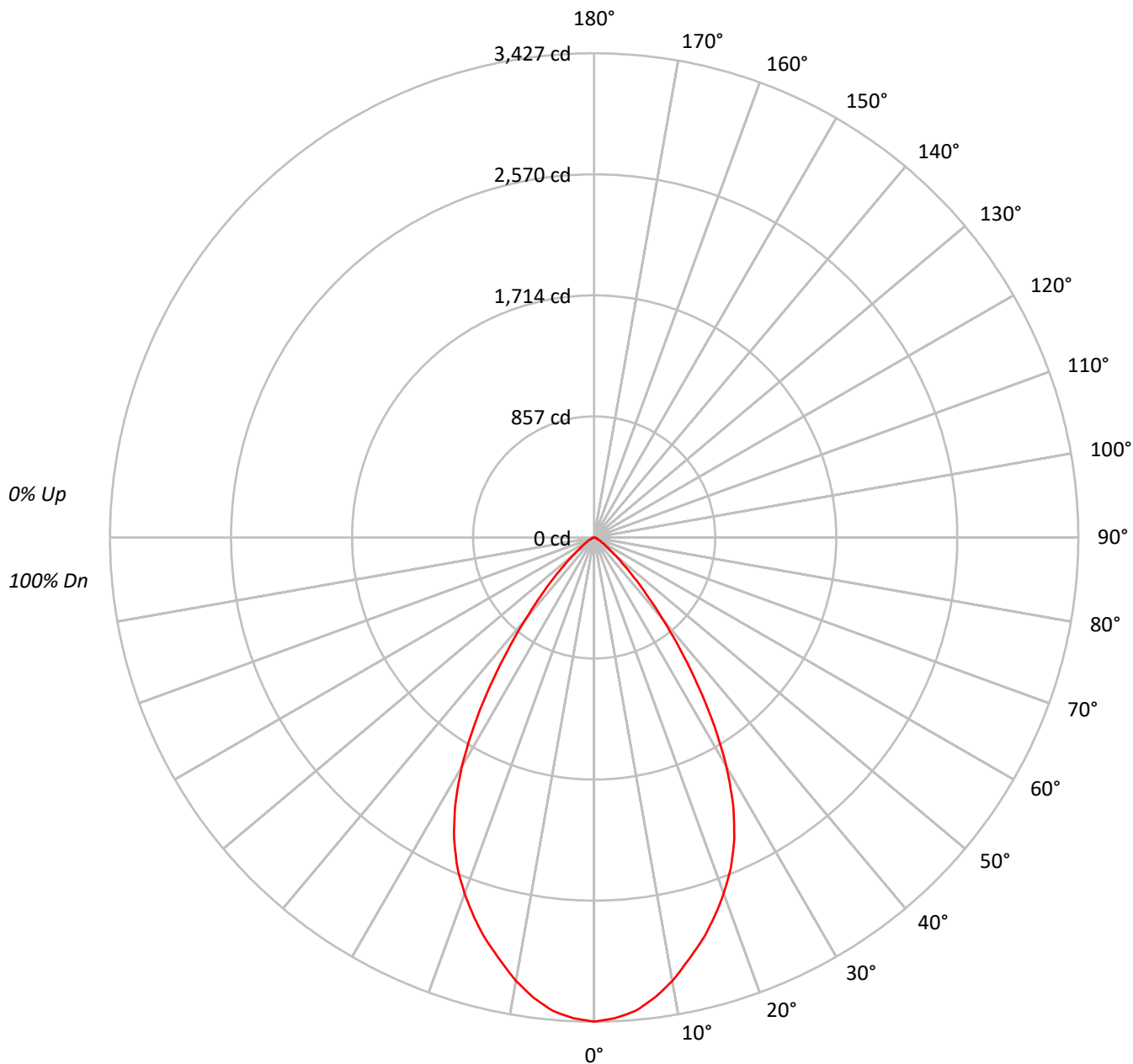
Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	420994
5°	414882
10°	397549
15°	375482
20°	350495
25°	318172
30°	265645
35°	192450
40°	120473
45°	68854
50°	35893
55°	20112
60°	12826
65°	7587
70°	5639
75°	2468
80°	3679
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	9.1
10°-20°	827.2	23.9
20°-30°	1063.1	30.8
30°-40°	799.9	23.1
40°-50°	321.2	9.3
50°-60°	91.3	2.6
60°-70°	28.9	0.8
70°-80°	8.2	0.2
80°-90°	0.7	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°	2205.7	63.8
0°-40°	3005.6	87.0
0°-60°	3418.1	98.9
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3427	
5°	3364	315
15°	2952	827
25°	2347	1063
35°	1283	800
45°	396	321
55°	94	91
65°	26	29
75°	5	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3426.8
2.5°	3406.0
5°	3364.2
7.5°	3286.0
10°	3186.8
12.5°	3067.0
15°	2952.2
17.5°	2821.8
20°	2680.9
22.5°	2529.8
25°	2347.2
27.5°	2128.0
30°	1872.6
32.5°	1585.6
35°	1283.2
37.5°	1001.4
40°	751.2
42.5°	552.9
45°	396.3
47.5°	271.3
50°	187.8
52.5°	130.5
55°	93.9
57.5°	67.8
60°	52.2
62.5°	36.5
65°	26.1
67.5°	20.9
70°	15.7
72.5°	10.4
75°	5.2
77.5°	5.2
80°	5.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)