

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: P573611

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573611
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-90-50 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

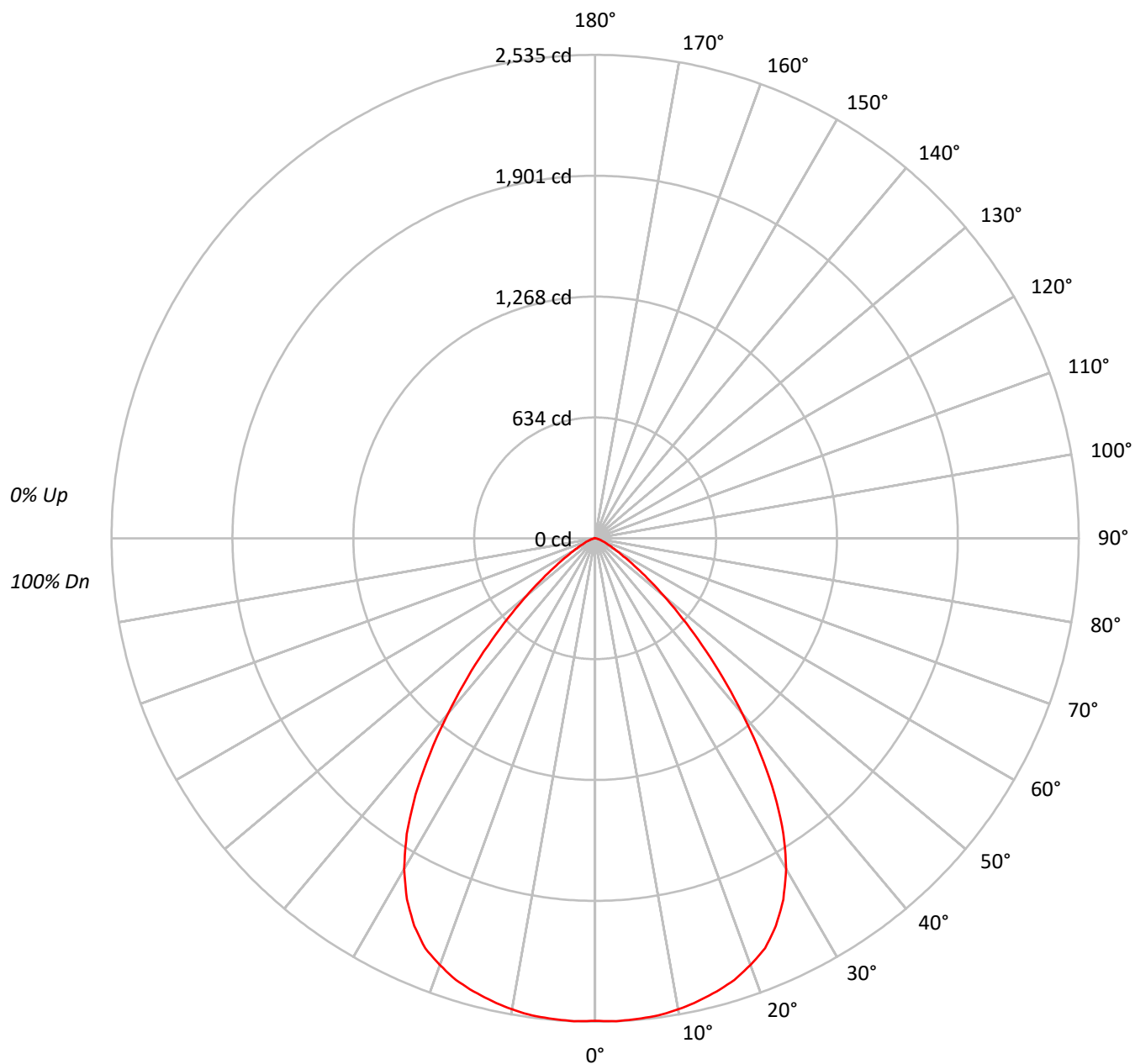
Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	310807
5°	311994
10°	312945
15°	312957
20°	311235
25°	303952
30°	284087
35°	246006
40°	192176
45°	137881
50°	89581
55°	53611
60°	31377
65°	20145
70°	13398
75°	10110
80°	7570
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	6.1
10°-20°	694.2	17.7
20°-30°	1024.4	26.1
30°-40°	1010.9	25.8
40°-50°	618.6	15.8
50°-60°	237.2	6.0
60°-70°	74.2	1.9
70°-80°	21.8	0.6
80°-90°	2.9	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°	1959.5	49.9
0°-40°	2970.4	75.7
0°-60°	3826.2	97.5
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2530	
5°	2530	241
15°	2461	694
25°	2242	1024
35°	1640	1011
45°	794	619
55°	250	237
65°	69	74
75°	21	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2529.9
2.5°	2535.2
5°	2529.9
7.5°	2524.6
10°	2508.6
12.5°	2487.2
15°	2460.6
17.5°	2428.6
20°	2380.6
22.5°	2327.6
25°	2242.3
27.5°	2135.6
30°	2002.6
32.5°	1837.6
35°	1640.3
37.5°	1422.0
40°	1198.3
42.5°	990.6
45°	793.6
47.5°	617.7
50°	468.7
52.5°	346.3
55°	250.3
57.5°	175.7
60°	127.7
62.5°	96.0
65°	69.3
67.5°	53.3
70°	37.3
72.5°	26.7
75°	21.3
77.5°	10.7
80°	10.7
82.5°	5.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)