

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: P573647

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-27 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573647
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-50-D010 FEU4C-X-90-27 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

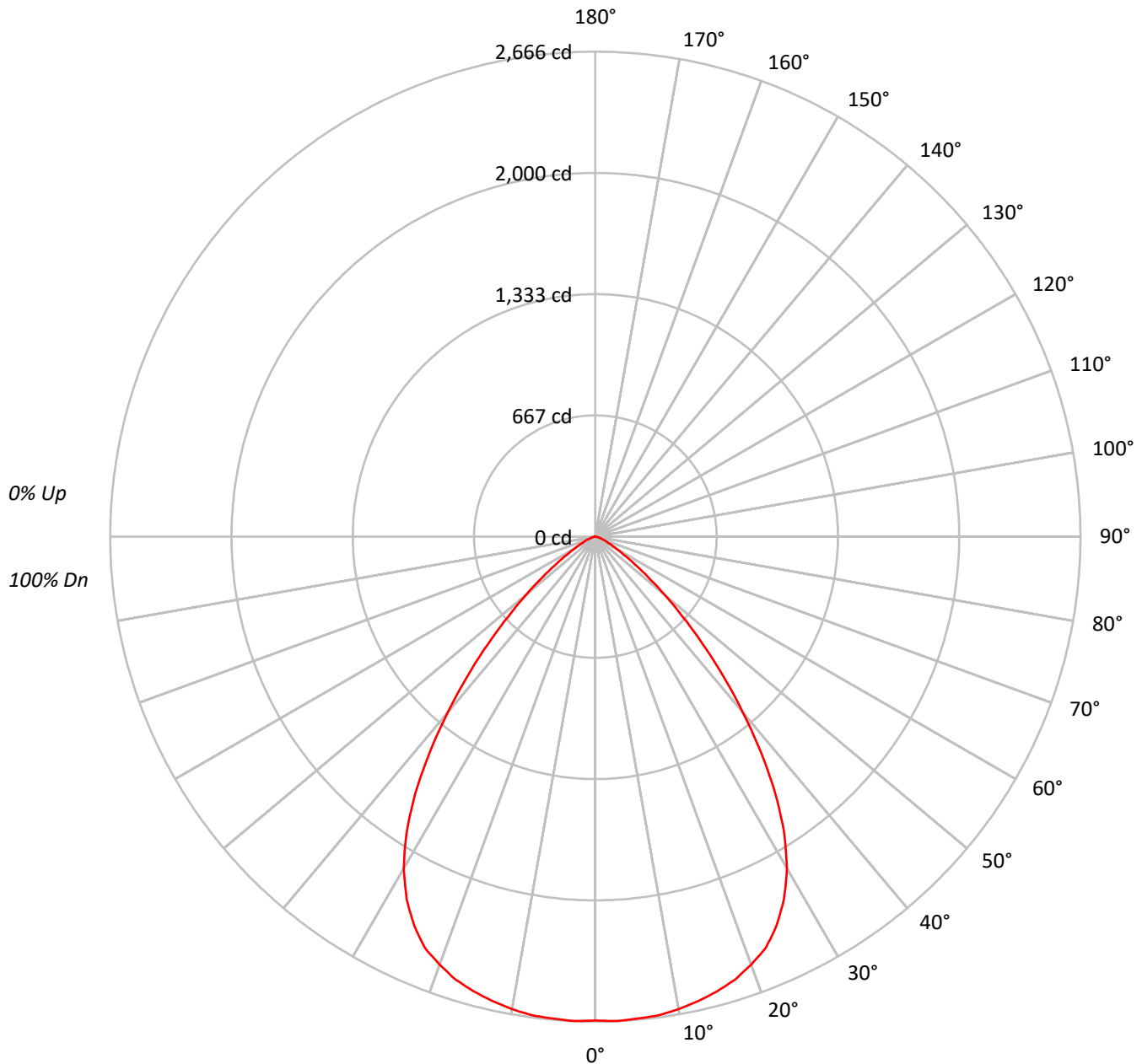
Lumens per Lamp: N/A
Luminaire Lumens: 4127.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	326803
5°	328051
10°	329050
15°	329059
20°	327250
25°	319595
30°	298712
35°	258664
40°	202071
45°	144987
50°	94187
55°	56374
60°	32998
65°	21192
70°	14081
75°	10633
80°	7924
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	6.1
10°-20°	729.9	17.7
20°-30°	1077.1	26.1
30°-40°	1062.9	25.8
40°-50°	650.5	15.8
50°-60°	249.4	6.0
60°-70°	78.0	1.9
70°-80°	22.8	0.6
80°-90°	3.0	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°	2060.4	49.9
0°-40°	3123.3	75.7
0°-60°	4023.1	97.5
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2660	
5°	2660	253
15°	2587	730
25°	2358	1077
35°	1725	1063
45°	834	650
55°	263	249
65°	73	78
75°	22	23
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2660.1
2.5°	2665.7
5°	2660.1
7.5°	2654.5
10°	2637.7
12.5°	2615.3
15°	2587.2
17.5°	2553.6
20°	2503.1
22.5°	2447.3
25°	2357.7
27.5°	2245.5
30°	2105.7
32.5°	1932.1
35°	1724.7
37.5°	1495.2
40°	1260.0
42.5°	1041.6
45°	834.5
47.5°	649.5
50°	492.8
52.5°	364.1
55°	263.2
57.5°	184.7
60°	134.3
62.5°	100.9
65°	72.9
67.5°	56.1
70°	39.2
72.5°	28.0
75°	22.4
77.5°	11.2
80°	11.2
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)