

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: P573717

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-35 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573717
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-90-35 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

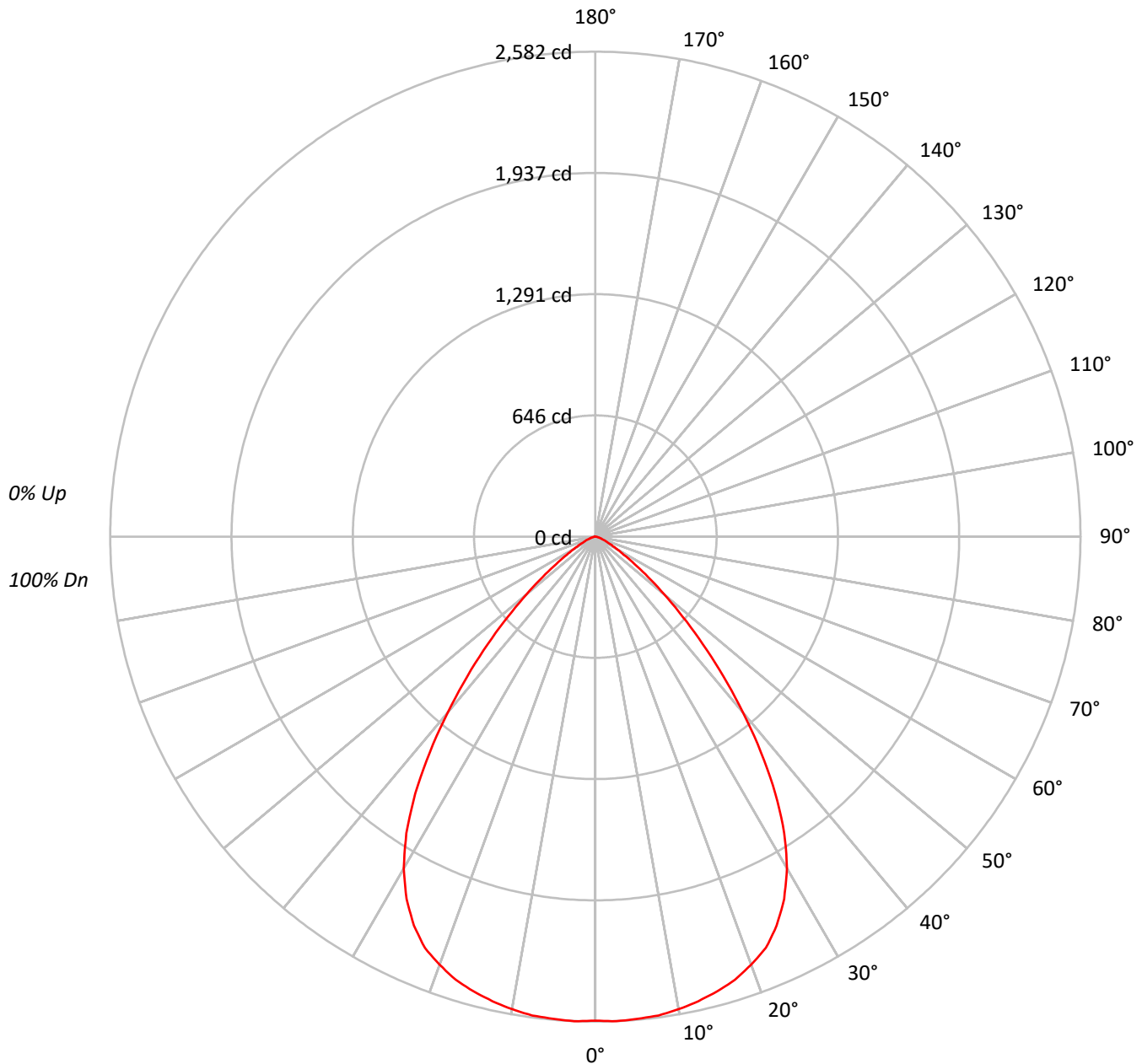
Lumens per Lamp: N/A
Luminaire Lumens: 3998.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	316593
5°	317803
10°	318758
15°	318782
20°	317026
25°	309605
30°	289364
35°	250581
40°	195752
45°	140452
50°	91244
55°	54618
60°	31966
65°	20523
70°	13650
75°	10300
80°	7712
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	6.1
10°-20°	707.1	17.7
20°-30°	1043.4	26.1
30°-40°	1029.7	25.8
40°-50°	630.2	15.8
50°-60°	241.6	6.0
60°-70°	75.5	1.9
70°-80°	22.2	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°	1996.0	49.9
0°-40°	3025.6	75.7
0°-60°	3897.4	97.5
0°-90°	3998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2577	
5°	2577	245
15°	2506	707
25°	2284	1043
35°	1671	1030
45°	808	630
55°	255	242
65°	71	76
75°	22	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2577.0
2.5°	2582.4
5°	2577.0
7.5°	2571.5
10°	2555.2
12.5°	2533.5
15°	2506.4
17.5°	2473.8
20°	2424.9
22.5°	2370.8
25°	2284.0
27.5°	2175.4
30°	2039.8
32.5°	1871.7
35°	1670.8
37.5°	1448.4
40°	1220.6
42.5°	1009.1
45°	808.4
47.5°	629.2
50°	477.4
52.5°	352.7
55°	255.0
57.5°	179.0
60°	130.1
62.5°	97.7
65°	70.6
67.5°	54.3
70°	38.0
72.5°	27.2
75°	21.7
77.5°	10.9
80°	10.9
82.5°	5.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)