

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: P572205

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-27 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572205
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-10-D010 FEU4C-X-90-27 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

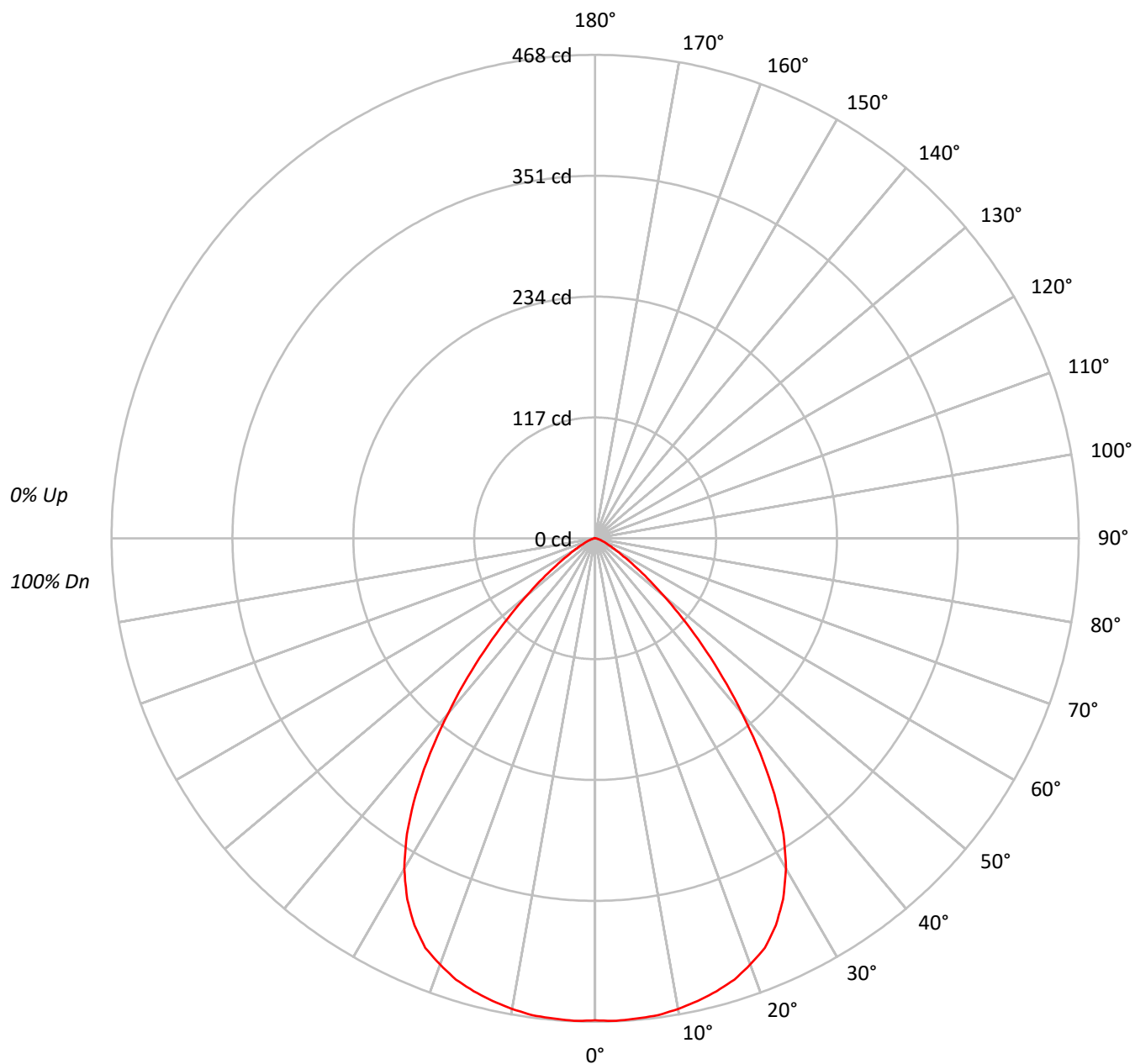
Lumens per Lamp: N/A
Luminaire Lumens: 724.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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°	57336
5°	57555
10°	57721
15°	57730
20°	57407
25°	56065
30°	52403
35°	45383
40°	35443
45°	25436
50°	16513
55°	9896
60°	5799
65°	3721
70°	2478
75°	1851
80°	1415
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	6.1
10°-20°	128.1	17.7
20°-30°	188.9	26.1
30°-40°	186.5	25.8
40°-50°	114.1	15.8
50°-60°	43.8	6.0
60°-70°	13.7	1.9
70°-80°	4.0	0.6
80°-90°	0.5	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°	361.4	49.9
0°-40°	547.9	75.7
0°-60°	705.8	97.5
0°-90°	724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	467	
5°	467	44
15°	454	128
25°	414	189
35°	303	186
45°	146	114
55°	46	44
65°	13	14
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	466.7
2.5°	467.6
5°	466.7
7.5°	465.7
10°	462.7
12.5°	458.8
15°	453.9
17.5°	448.0
20°	439.1
22.5°	429.3
25°	413.6
27.5°	393.9
30°	369.4
32.5°	339.0
35°	302.6
37.5°	262.3
40°	221.0
42.5°	182.7
45°	146.4
47.5°	113.9
50°	86.4
52.5°	63.9
55°	46.2
57.5°	32.4
60°	23.6
62.5°	17.7
65°	12.8
67.5°	9.8
70°	6.9
72.5°	4.9
75°	3.9
77.5°	2.0
80°	2.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)