

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: P572853

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-40 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572853
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-25-D010 FEU4C-X-90-40 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

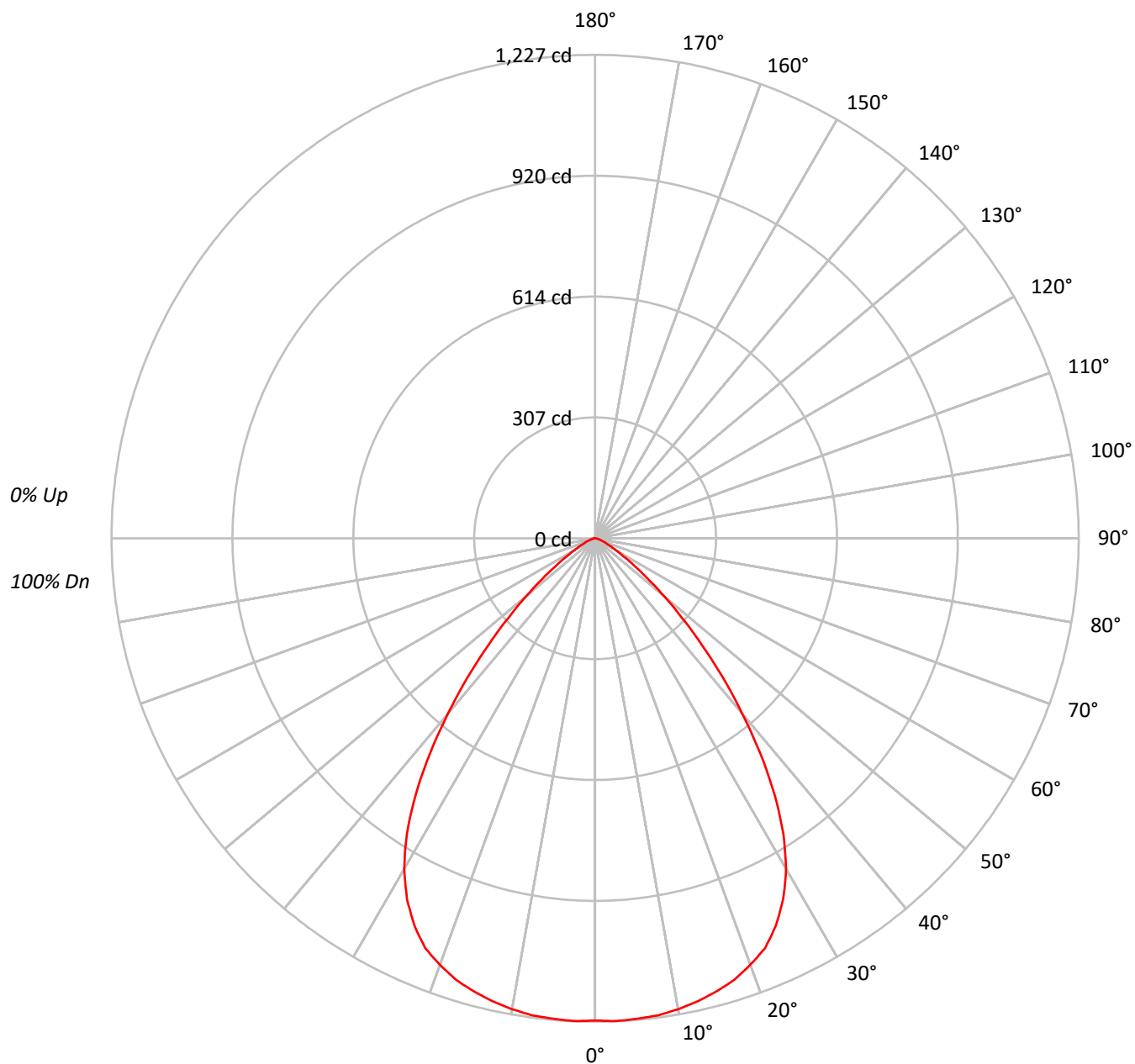
Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	150373
5°	150947
10°	151407
15°	151416
20°	150584
25°	147062
30°	137447
35°	119021
40°	92985
45°	66717
50°	43328
55°	25938
60°	15185
65°	9738
70°	6502
75°	4889
80°	3679
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	6.1
10°-20°	335.9	17.7
20°-30°	495.6	26.1
30°-40°	489.1	25.8
40°-50°	299.3	15.8
50°-60°	114.7	6.0
60°-70°	35.9	1.9
70°-80°	10.5	0.6
80°-90°	1.4	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°	948.1	49.9
0°-40°	1437.2	75.7
0°-60°	1851.2	97.5
0°-90°	1899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1224	
5°	1224	117
15°	1190	336
25°	1085	496
35°	794	489
45°	384	299
55°	121	115
65°	34	36
75°	10	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1224.0
2.5°	1226.6
5°	1224.0
7.5°	1221.4
10°	1213.7
12.5°	1203.4
15°	1190.5
17.5°	1175.0
20°	1151.8
22.5°	1126.1
25°	1084.9
27.5°	1033.3
30°	968.9
32.5°	889.1
35°	793.6
37.5°	688.0
40°	579.8
42.5°	479.3
45°	384.0
47.5°	298.9
50°	226.7
52.5°	167.5
55°	121.1
57.5°	85.0
60°	61.8
62.5°	46.4
65°	33.5
67.5°	25.8
70°	18.1
72.5°	12.9
75°	10.3
77.5°	5.2
80°	5.2
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)