

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: P571786

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-50 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-02-D010 FEU4C-X-90-50 F4X-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

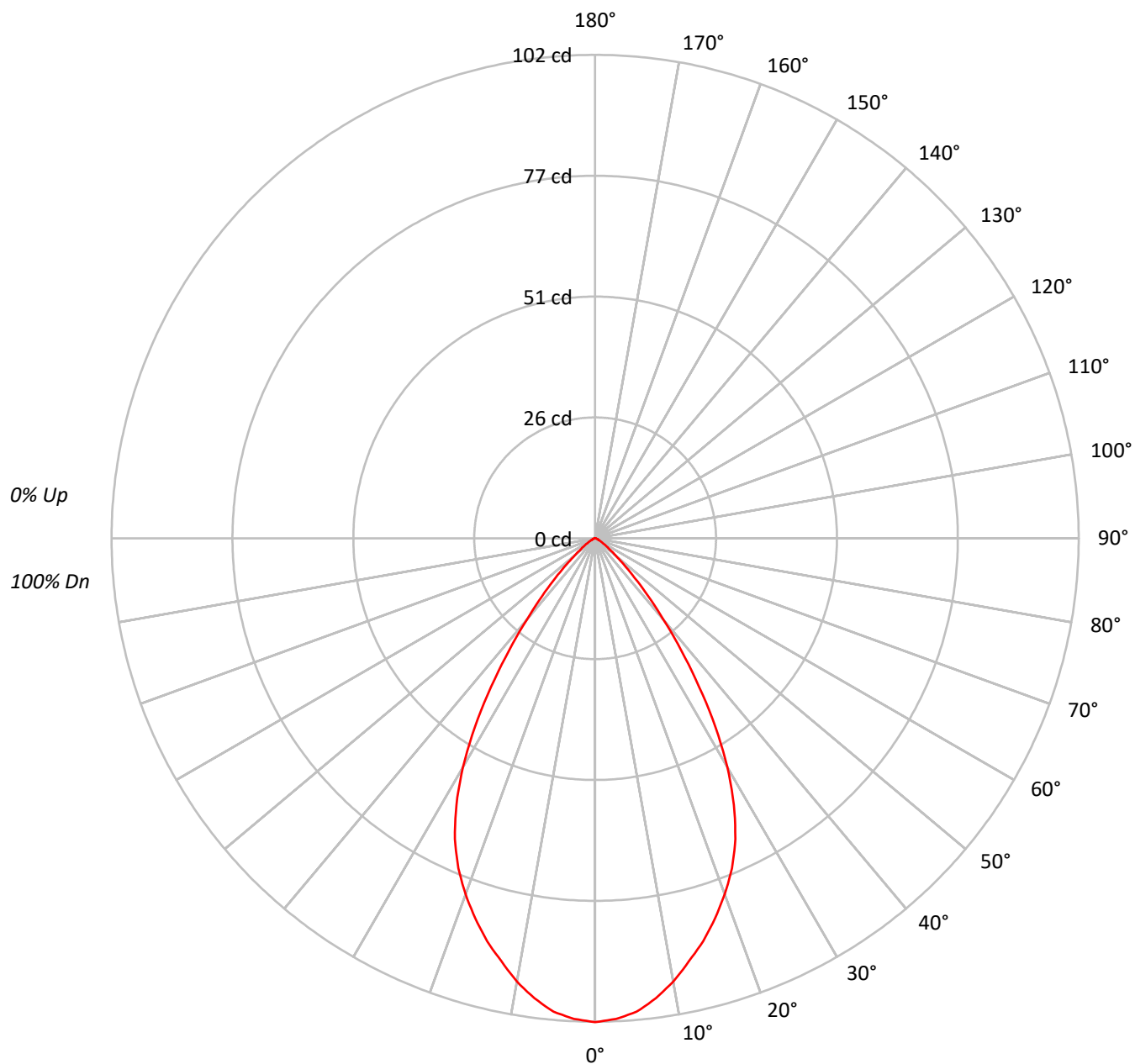
Lumens per Lamp: N/A
Luminaire Lumens: 103.1 lumens
Efficiency: N/A
Efficacy: 29.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12543
5°	12369
10°	11851
15°	11192
20°	10446
25°	9489
30°	7916
35°	5729
40°	3592
45°	2050
50°	1070
55°	600
60°	393
65°	233
70°	180
75°	95
80°	141
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	9.1
10°-20°	24.7	23.9
20°-30°	31.7	30.7
30°-40°	23.8	23.1
40°-50°	9.6	9.3
50°-60°	2.7	2.6
60°-70°	0.9	0.8
70°-80°	0.3	0.3
80°-90°	0.0	0.0
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°	65.7	63.8
0°-40°	89.6	86.9
0°-60°	101.9	98.9
0°-90°	103.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	103.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	102	
5°	100	9
15°	88	25
25°	70	32
35°	38	24
45°	12	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	102.1
2.5°	101.5
5°	100.3
7.5°	97.9
10°	95.0
12.5°	91.4
15°	88.0
17.5°	84.1
20°	79.9
22.5°	75.4
25°	70.0
27.5°	63.4
30°	55.8
32.5°	47.3
35°	38.2
37.5°	29.8
40°	22.4
42.5°	16.5
45°	11.8
47.5°	8.1
50°	5.6
52.5°	3.9
55°	2.8
57.5°	2.0
60°	1.6
62.5°	1.1
65°	0.8
67.5°	0.6
70°	0.5
72.5°	0.3
75°	0.2
77.5°	0.2
80°	0.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)