

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: P573415

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-N-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-40-D010 FEU4C-X-90-50 F4X-N-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

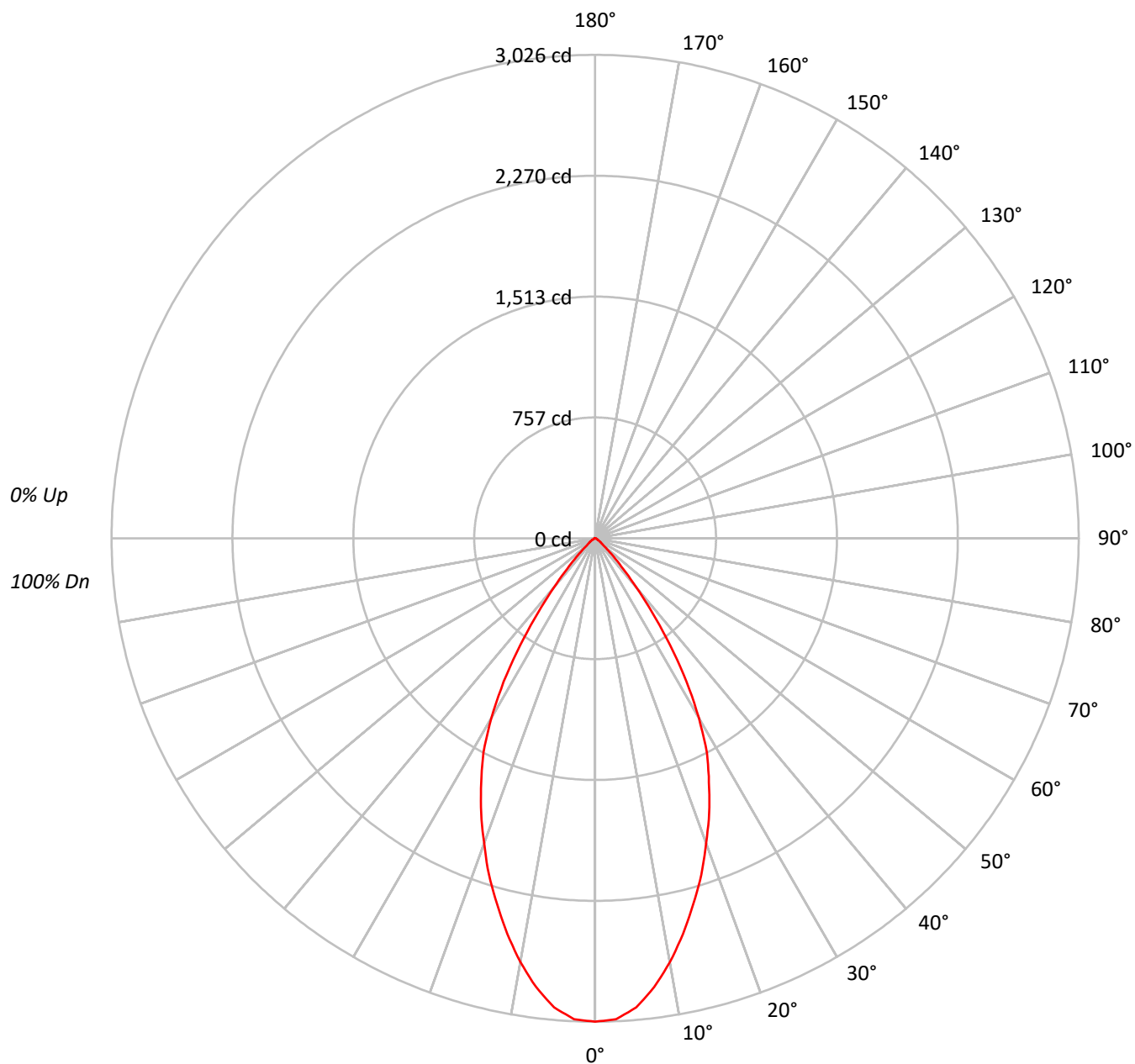
Lumens per Lamp: N/A
Luminaire Lumens: 2410.0 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	111	108	106		111	109	106	104		105	103	101			101	99	98			97
2	108	103	99	96		106	101	98	94		98	95	92			95	93	90			92
3	102	96	91	87		100	95	90	86		92	88	85			90	86	84			87
4	97	90	84	80		95	89	83	79		86	82	78			84	81	78			83
5	92	84	78	74		91	83	78	73		81	76	73			80	75	72			78
6	88	79	73	69		86	78	72	68		77	72	68			75	71	67			74
7	83	74	68	64		82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60		78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56		74	65	60	56		65	59	56			64	59	56			63
10	72	62	57	53		71	62	56	53		61	56	53			60	56	52			60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	371742
5°	363457
10°	336060
15°	301548
20°	265450
25°	228449
30°	183963
35°	122471
40°	63700
45°	28841
50°	12519
55°	8396
60°	5381
65°	3808
70°	3161
75°	2089
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	11.3
10°-20°	662.2	27.5
20°-30°	768.8	31.9
30°-40°	509.1	21.1
40°-50°	142.8	5.9
50°-60°	35.9	1.5
60°-70°	13.5	0.6
70°-80°	4.6	0.2
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°	1704.1	70.7
0°-40°	2213.2	91.8
0°-60°	2391.9	99.2
0°-90°	2410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3026	
5°	2947	273
15°	2371	662
25°	1685	769
35°	817	509
45°	166	143
55°	39	36
65°	13	13
75°	4	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3025.9
2.5°	3012.7
5°	2947.2
7.5°	2833.6
10°	2693.9
12.5°	2536.7
15°	2370.9
17.5°	2209.3
20°	2030.4
22.5°	1864.4
25°	1685.3
27.5°	1515.1
30°	1296.8
32.5°	1065.3
35°	816.6
37.5°	585.1
40°	397.2
42.5°	257.5
45°	166.0
47.5°	100.5
50°	65.5
52.5°	48.0
55°	39.2
57.5°	30.6
60°	21.9
62.5°	17.5
65°	13.1
67.5°	8.8
70°	8.8
72.5°	4.4
75°	4.4
77.5°	4.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)