

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: P572887

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-50 F4X-W-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572887
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-90-50 F4X-W-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

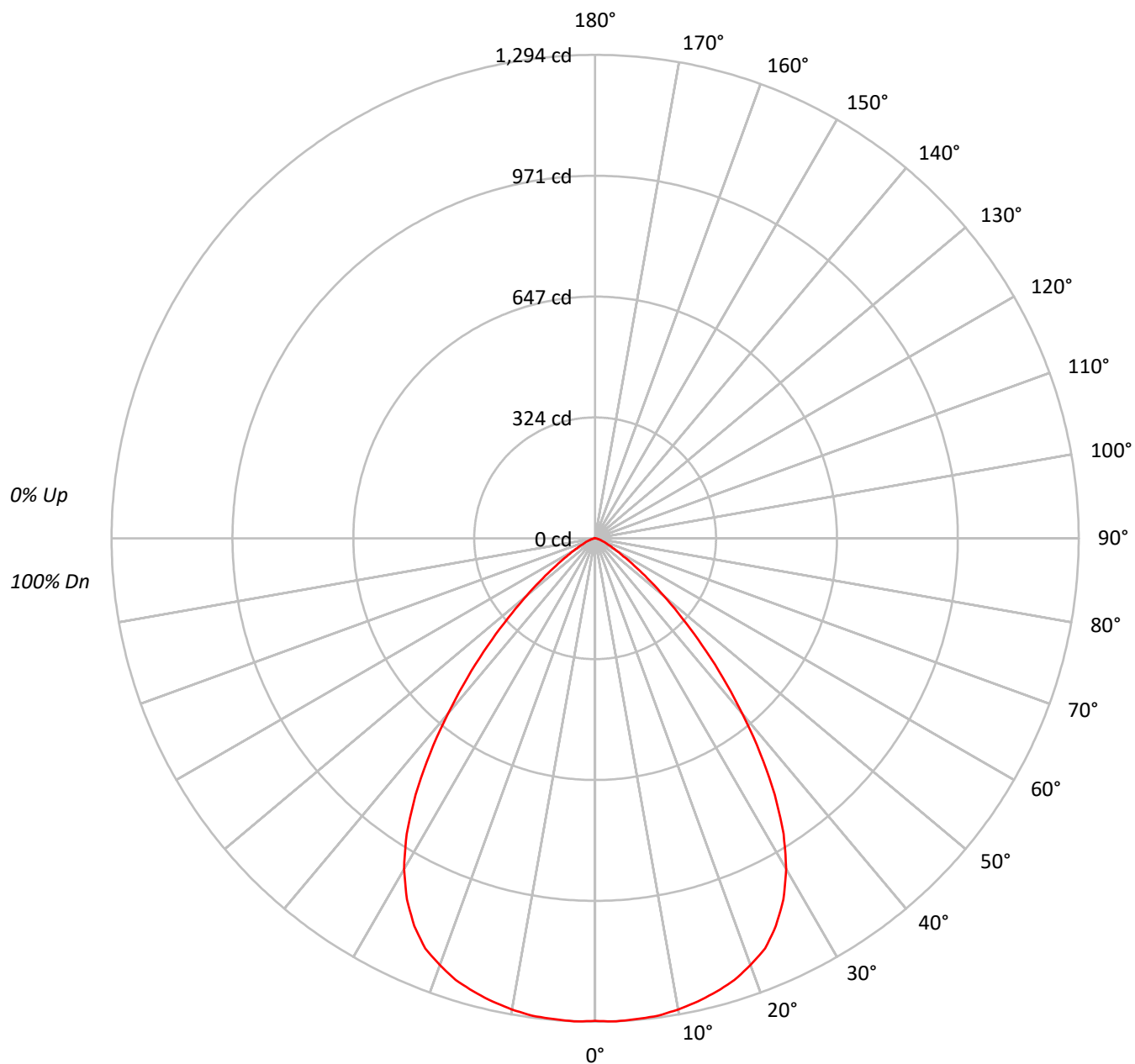
Lumens per Lamp: N/A
Luminaire Lumens: 2004.0 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (A_{in}): 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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			91
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			82
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			74
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			67
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			61
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			55
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			50
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			46
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			43
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	158690
5°	159296
10°	159778
15°	159785
20°	158912
25°	155182
30°	145051
35°	125605
40°	98117
45°	70400
50°	45736
55°	27373
60°	16020
65°	10291
70°	6861
75°	5174
80°	3820
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	6.1
10°-20°	354.4	17.7
20°-30°	523.0	26.1
30°-40°	516.1	25.8
40°-50°	315.9	15.8
50°-60°	121.1	6.0
60°-70°	37.9	1.9
70°-80°	11.1	0.6
80°-90°	1.5	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°	1000.5	49.9
0°-40°	1516.6	75.7
0°-60°	1953.6	97.5
0°-90°	2004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1292	
5°	1292	123
15°	1256	354
25°	1145	523
35°	838	516
45°	405	316
55°	128	121
65°	35	38
75°	11	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1291.7
2.5°	1294.4
5°	1291.7
7.5°	1289.0
10°	1280.8
12.5°	1269.9
15°	1256.3
17.5°	1240.0
20°	1215.5
22.5°	1188.4
25°	1144.8
27.5°	1090.4
30°	1022.5
32.5°	938.2
35°	837.5
37.5°	726.0
40°	611.8
42.5°	505.8
45°	405.2
47.5°	315.4
50°	239.3
52.5°	176.8
55°	127.8
57.5°	89.7
60°	65.2
62.5°	49.0
65°	35.4
67.5°	27.2
70°	19.1
72.5°	13.6
75°	10.9
77.5°	5.4
80°	5.4
82.5°	2.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)