

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: P573429

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573429
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-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

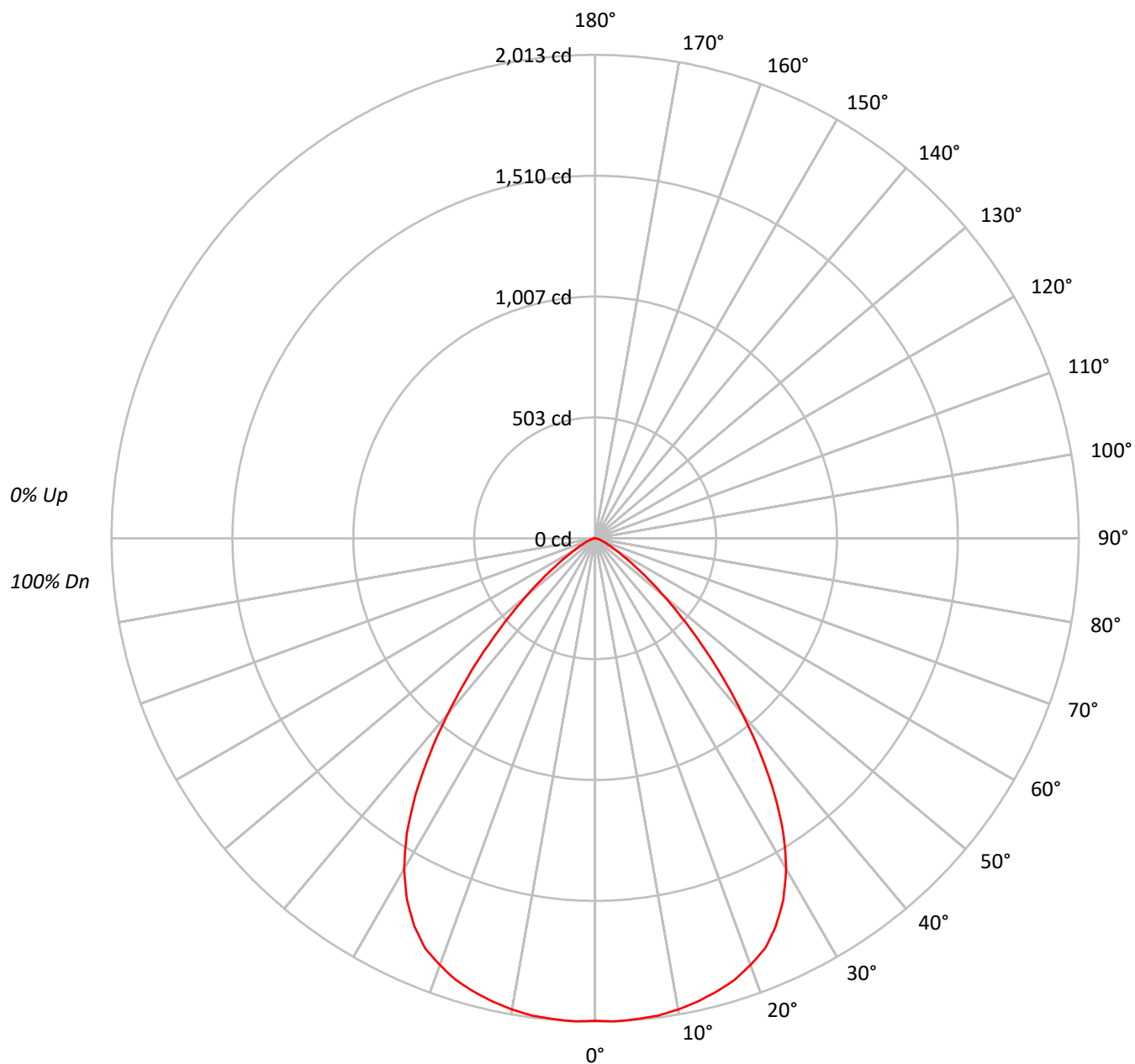
Lumens per Lamp: N/A
Luminaire Lumens: 3116.9 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	246825
5°	247768
10°	248524
15°	248537
20°	247160
25°	241381
30°	225598
35°	195359
40°	152612
45°	109492
50°	71137
55°	42581
60°	24915
65°	15988
70°	10632
75°	8022
80°	6014
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	6.1
10°-20°	551.3	17.7
20°-30°	813.5	26.1
30°-40°	802.8	25.8
40°-50°	491.3	15.8
50°-60°	188.3	6.0
60°-70°	58.9	1.9
70°-80°	17.3	0.6
80°-90°	2.3	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°	1556.1	49.9
0°-40°	2358.9	75.7
0°-60°	3038.5	97.5
0°-90°	3116.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2009	
5°	2009	191
15°	1954	551
25°	1781	814
35°	1303	803
45°	630	491
55°	199	188
65°	55	59
75°	17	17
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2009.1
2.5°	2013.3
5°	2009.1
7.5°	2004.9
10°	1992.2
12.5°	1975.2
15°	1954.1
17.5°	1928.7
20°	1890.5
22.5°	1848.4
25°	1780.7
27.5°	1696.0
30°	1590.3
32.5°	1459.3
35°	1302.6
37.5°	1129.2
40°	951.6
42.5°	786.7
45°	630.2
47.5°	490.5
50°	372.2
52.5°	275.0
55°	198.8
57.5°	139.5
60°	101.4
62.5°	76.2
65°	55.0
67.5°	42.3
70°	29.6
72.5°	21.2
75°	16.9
77.5°	8.5
80°	8.5
82.5°	4.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)