

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: P572682

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-40 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-20-D010 FEU4C-X-90-40 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

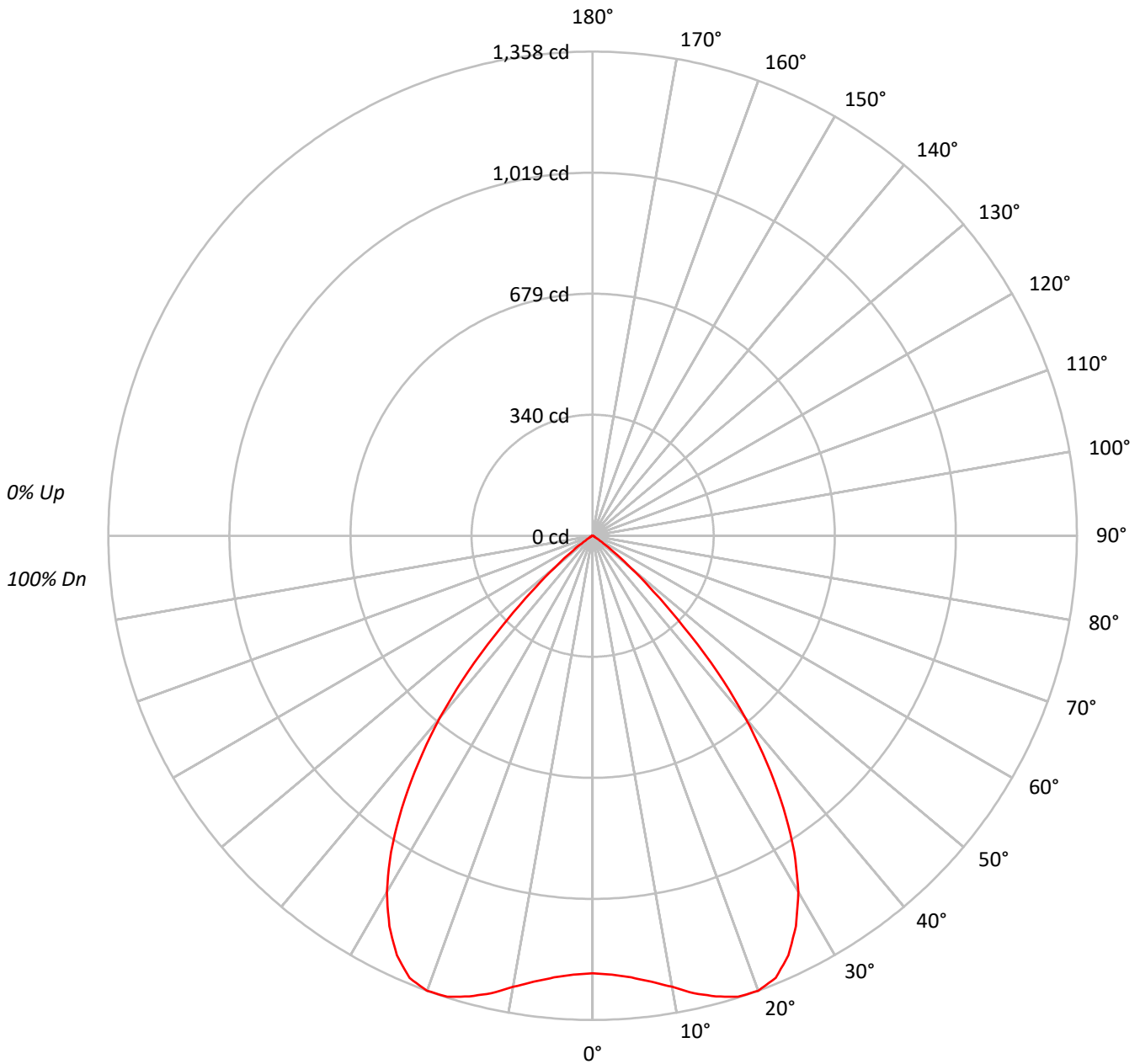
Lumens per Lamp: N/A
Luminaire Lumens: 2003.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77			77																
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54																
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49																
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45																
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	150766
5°	153327
10°	160252
15°	170100
20°	177542
25°	176003
30°	163677
35°	140033
40°	106681
45°	62582
50°	26739
55°	7861
60°	2261
65°	1337
70°	826
75°	1092
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	6.0
10°-20°	378.7	18.9
20°-30°	590.8	29.5
30°-40°	574.9	28.7
40°-50°	287.2	14.3
50°-60°	44.5	2.2
60°-70°	5.4	0.3
70°-80°	1.5	0.1
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°	1089.6	54.4
0°-40°	1664.5	83.1
0°-60°	1996.1	99.7
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1227	
5°	1243	120
15°	1337	379
25°	1298	591
35°	934	575
45°	360	287
55°	37	44
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1227.2
2.5°	1231.8
5°	1243.3
7.5°	1261.7
10°	1284.6
12.5°	1314.4
15°	1337.4
17.5°	1355.7
20°	1358.0
22.5°	1342.0
25°	1298.4
27.5°	1234.1
30°	1153.8
32.5°	1053.0
35°	933.7
37.5°	802.8
40°	665.2
42.5°	518.5
45°	360.2
47.5°	231.7
50°	139.9
52.5°	75.7
55°	36.7
57.5°	16.1
60°	9.2
62.5°	6.9
65°	4.6
67.5°	4.6
70°	2.3
72.5°	2.3
75°	2.3
77.5°	0.0
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)