

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: P572718

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-50 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572718
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-90-50 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

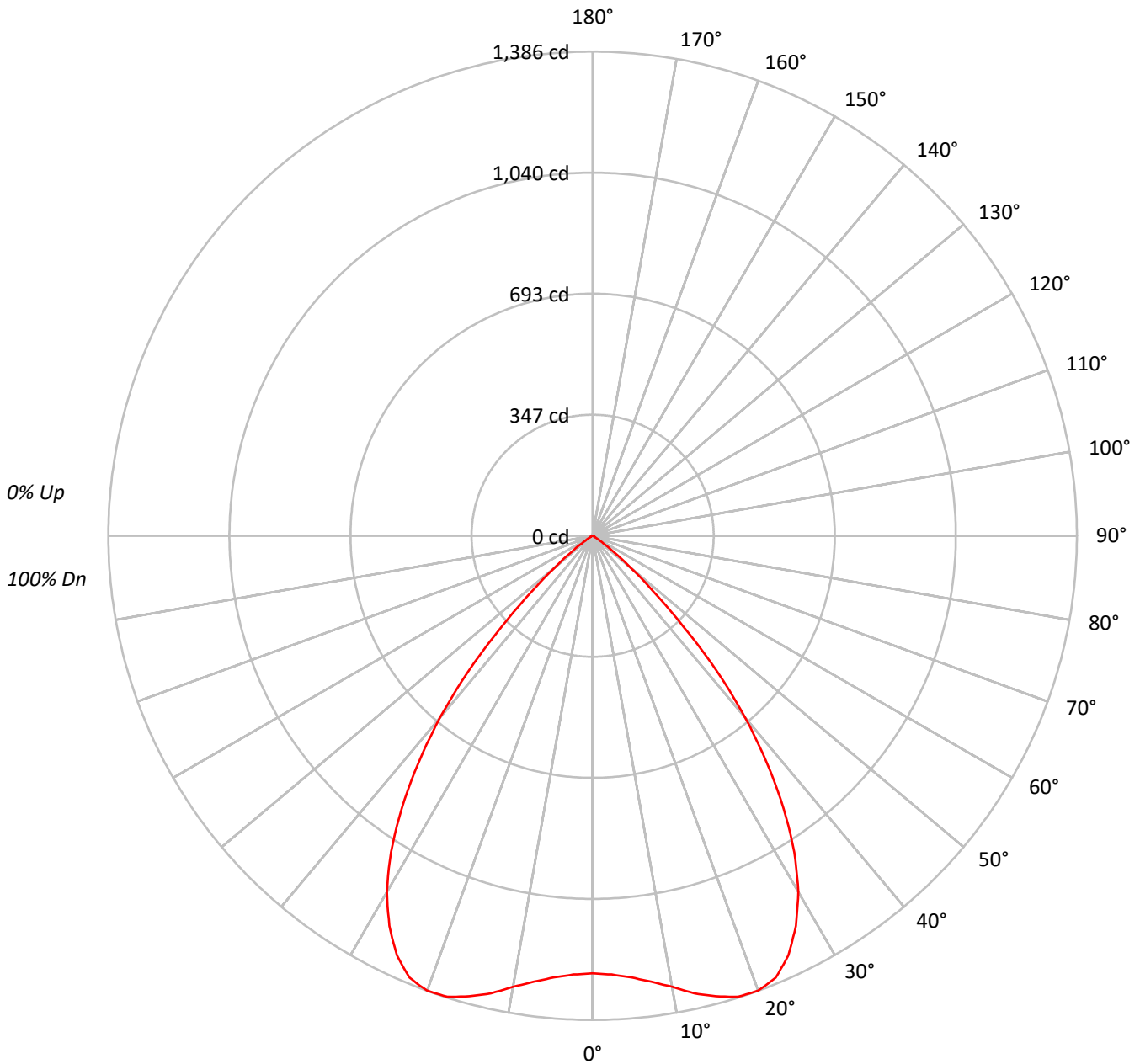
Lumens per Lamp: N/A
Luminaire Lumens: 2044.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	153849
5°	156472
10°	163533
15°	173572
20°	181177
25°	179609
30°	167039
35°	142898
40°	108878
45°	63867
50°	27293
55°	8032
60°	2310
65°	1366
70°	826
75°	1092
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	6.0
10°-20°	386.5	18.9
20°-30°	602.9	29.5
30°-40°	586.7	28.7
40°-50°	293.0	14.3
50°-60°	45.4	2.2
60°-70°	5.5	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°	1111.9	54.4
0°-40°	1698.6	83.1
0°-60°	2037.0	99.7
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1252	
5°	1269	122
15°	1365	386
25°	1325	603
35°	953	587
45°	368	293
55°	38	45
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1252.3
2.5°	1257.0
5°	1268.8
7.5°	1287.5
10°	1310.9
12.5°	1341.3
15°	1364.7
17.5°	1383.5
20°	1385.8
22.5°	1369.4
25°	1325.0
27.5°	1259.4
30°	1177.5
32.5°	1074.5
35°	952.8
37.5°	819.3
40°	678.9
42.5°	529.1
45°	367.6
47.5°	236.4
50°	142.8
52.5°	77.2
55°	37.5
57.5°	16.4
60°	9.4
62.5°	7.0
65°	4.7
67.5°	4.7
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)