

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: P573114

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573114
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-35-D010 FEU4C-X-90-27 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

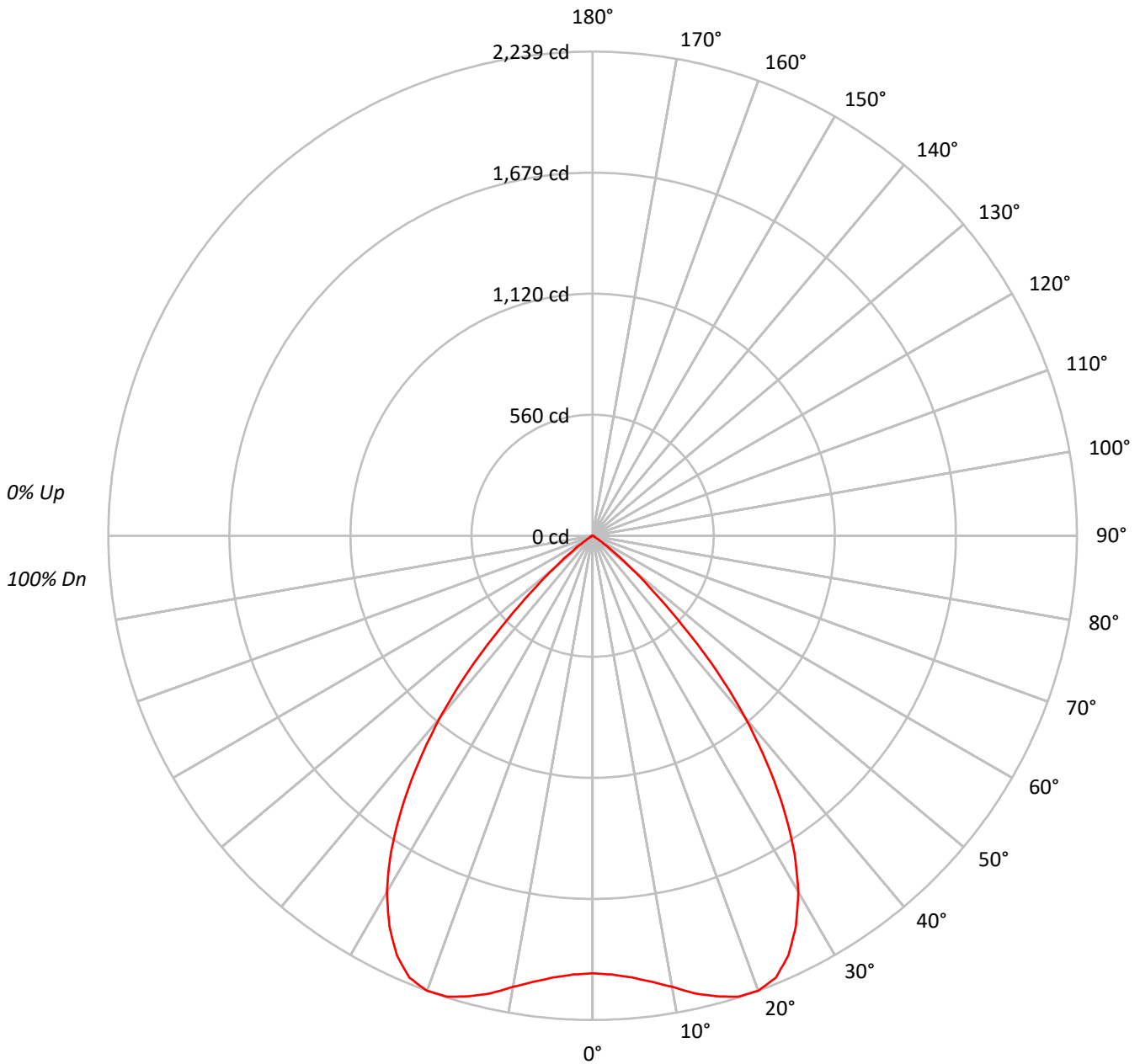
Lumens per Lamp: N/A
Luminaire Lumens: 3302.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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																																				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																																				
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77																																				
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70																																				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																																				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58																																				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54																																				
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49																																				
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																																				
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	248545
5°	252762
10°	264193
15°	280410
20°	292696
25°	290153
30°	269830
35°	230844
40°	175882
45°	103167
50°	44074
55°	12980
60°	3710
65°	2209
70°	1365
75°	1804
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	6.0
10°-20°	624.4	18.9
20°-30°	974.0	29.5
30°-40°	947.7	28.7
40°-50°	473.4	14.3
50°-60°	73.3	2.2
60°-70°	8.9	0.3
70°-80°	2.5	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°	1796.3	54.4
0°-40°	2744.0	83.1
0°-60°	3290.7	99.7
0°-90°	3302.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2023	
5°	2050	198
15°	2205	624
25°	2140	974
35°	1539	948
45°	594	473
55°	61	73
65°	8	9
75°	4	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2023.1
2.5°	2030.7
5°	2049.6
7.5°	2079.9
10°	2117.8
12.5°	2166.8
15°	2204.7
17.5°	2235.0
20°	2238.8
22.5°	2212.3
25°	2140.5
27.5°	2034.5
30°	1902.1
32.5°	1735.9
35°	1539.2
37.5°	1323.5
40°	1096.7
42.5°	854.7
45°	593.8
47.5°	381.9
50°	230.6
52.5°	124.8
55°	60.6
57.5°	26.5
60°	15.1
62.5°	11.4
65°	7.6
67.5°	7.6
70°	3.8
72.5°	3.8
75°	3.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)