

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: P572274

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-35 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-10-D010 FEU4C-X-90-35 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

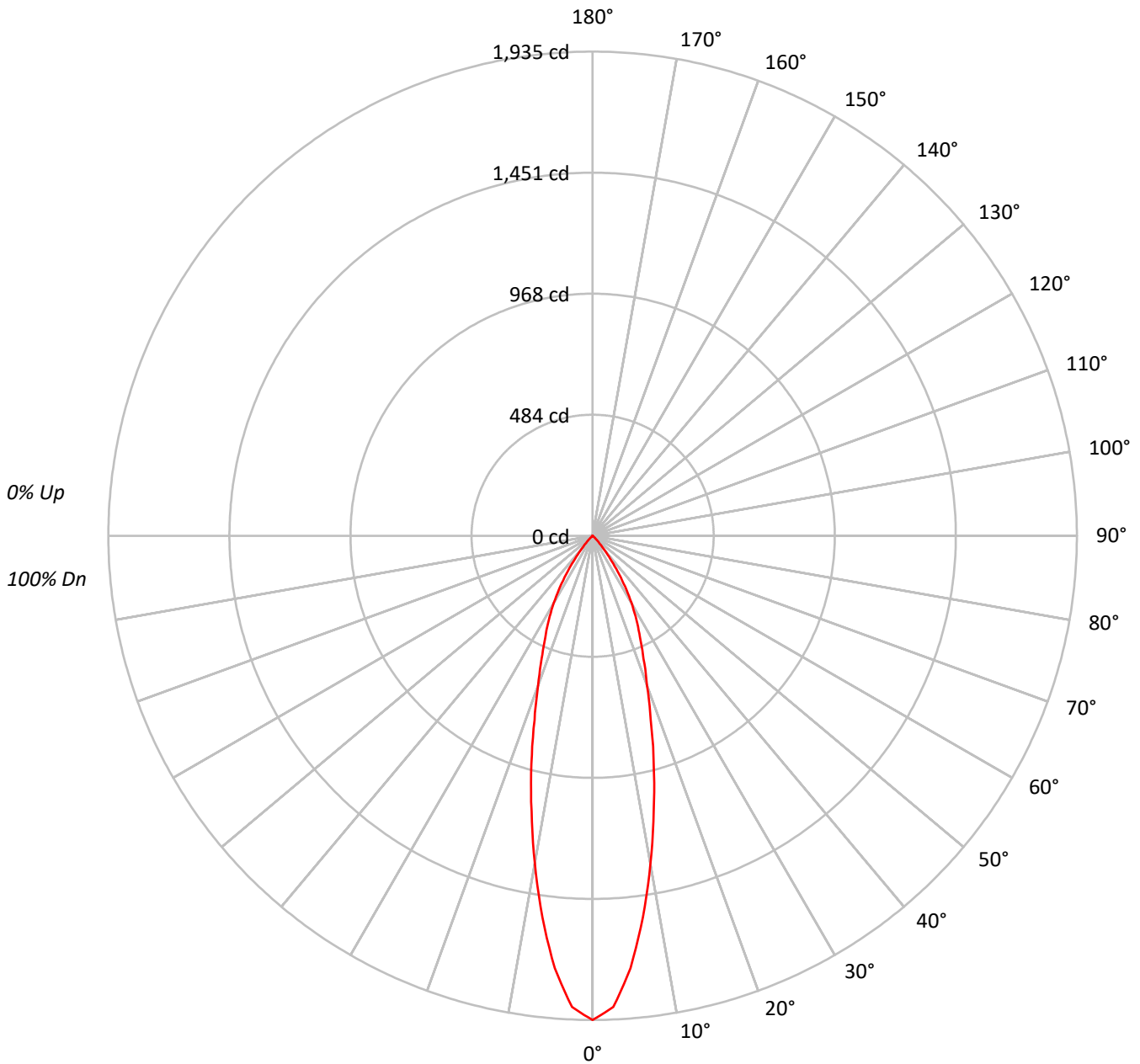
Lumens per Lamp: N/A
Luminaire Lumens: 752.1 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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									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											100																	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95											95																	
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90											90																	
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85											85																	
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81											81																	
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77											77																	
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73											73																	
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69											69																	
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66											66																	
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63											63																	
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61											61																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	237746
5°	213953
10°	165853
15°	120052
20°	83123
25°	60593
30°	44033
35°	26051
40°	10954
45°	3423
50°	440
55°	257
60°	295
65°	349
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	20.3
10°-20°	261.1	34.7
20°-30°	207.5	27.6
30°-40°	109.8	14.6
40°-50°	18.9	2.5
50°-60°	1.4	0.2
60°-70°	0.7	0.1
70°-80°	0.0	0.0
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°	621.1	82.6
0°-40°	731.0	97.2
0°-60°	751.3	99.9
0°-90°	752.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1935	
5°	1735	153
15°	944	261
25°	447	208
35°	174	110
45°	20	19
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1935.2
2.5°	1885.4
5°	1734.9
7.5°	1538.0
10°	1329.5
12.5°	1128.0
15°	943.9
17.5°	772.5
20°	635.8
22.5°	531.6
25°	447.0
27.5°	378.7
30°	310.4
32.5°	240.9
35°	173.7
37.5°	114.7
40°	68.3
42.5°	39.4
45°	19.7
47.5°	7.0
50°	2.3
52.5°	2.3
55°	1.2
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)