

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: P571770

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-40 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571770
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-02-D010 FEU4C-X-90-40 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

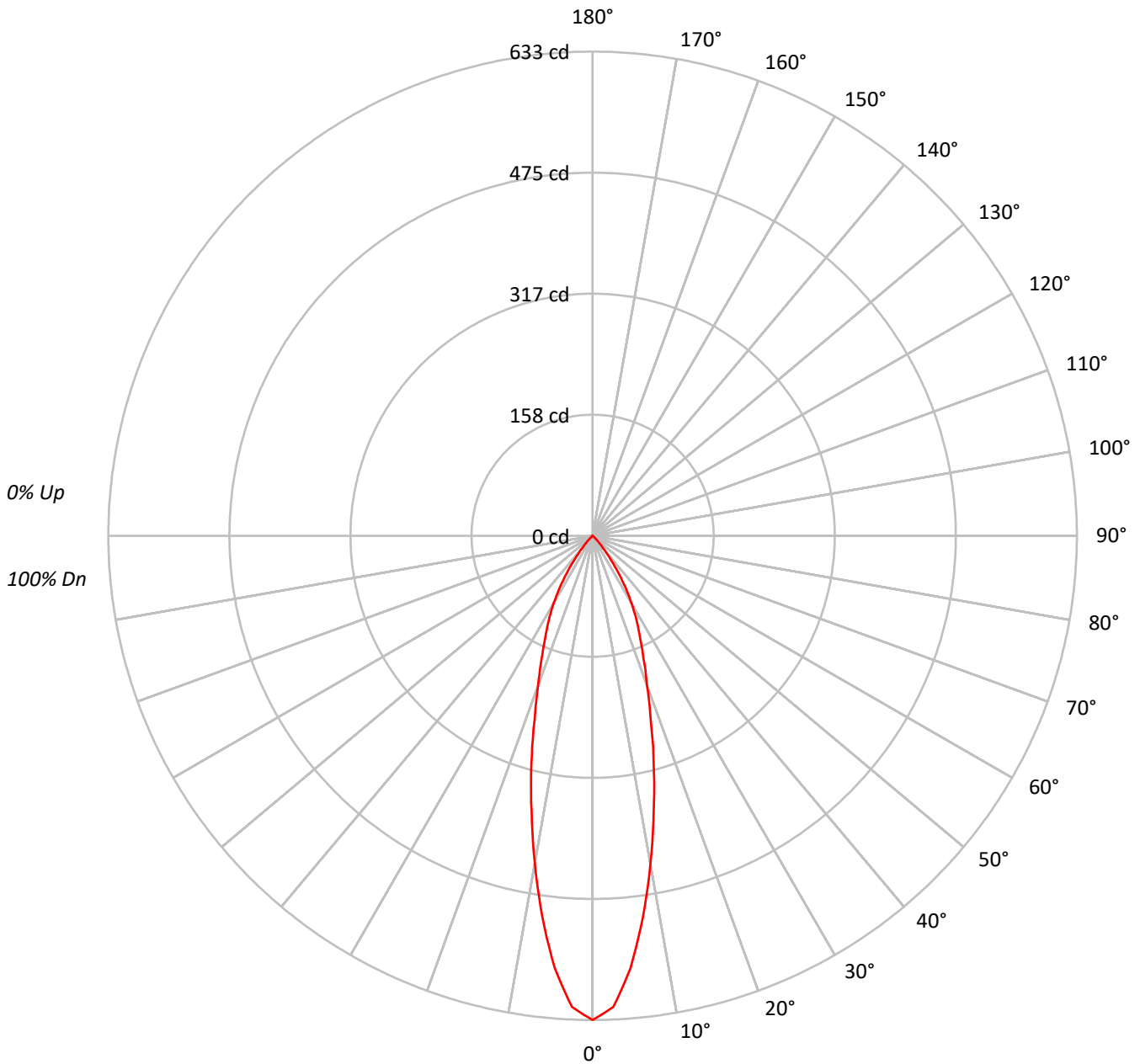
Lumens per Lamp: N/A
Luminaire Lumens: 246.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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																	
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																																				
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90																																				
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																																				
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81																																				
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77																																				
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73																																				
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69																																				
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																																				
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63																																				
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77779
5°	69986
10°	54253
15°	39275
20°	27193
25°	19818
30°	14399
35°	8519
40°	3592
45°	1112
50°	153
55°	86
60°	98
65°	116
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	20.3
10°-20°	85.4	34.7
20°-30°	67.9	27.6
30°-40°	35.9	14.6
40°-50°	6.2	2.5
50°-60°	0.5	0.2
60°-70°	0.2	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
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0°-30°	203.2	82.6
0°-40°	239.1	97.2
0°-60°	245.8	99.9
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	633	
5°	568	50
15°	309	85
25°	146	68
35°	57	36
45°	6	6
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	633.1
2.5°	616.8
5°	567.5
7.5°	503.1
10°	434.9
12.5°	369.0
15°	308.8
17.5°	252.7
20°	208.0
22.5°	173.9
25°	146.2
27.5°	123.9
30°	101.5
32.5°	78.8
35°	56.8
37.5°	37.5
40°	22.4
42.5°	12.9
45°	6.4
47.5°	2.3
50°	0.8
52.5°	0.8
55°	0.4
57.5°	0.4
60°	0.4
62.5°	0.4
65°	0.4
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)