

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: P573030

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-40 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573030
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-30-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

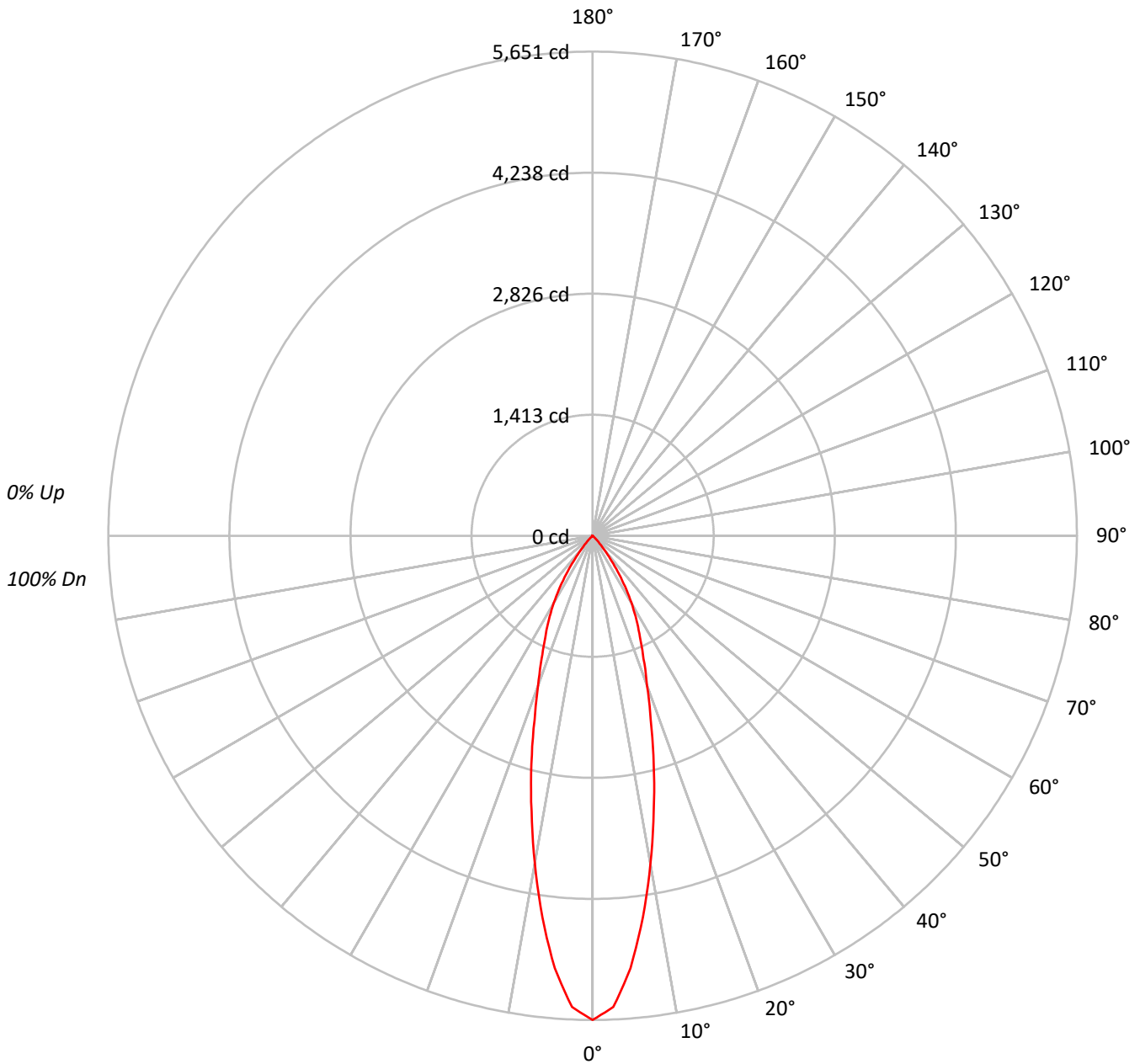
Lumens per Lamp: N/A
Luminaire Lumens: 2196.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	100	100	99	98	97	95	95	95	92	92	92	90																							
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	93	92	91	90	88	87	85	85	85	81																							
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	90	88	87	86	84	83	81	81	81	77																								
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	83	82	81	80	78	77	75	73	71	69																							
	4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	79	78	77	76	74	73	71	69	67	66																							
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	75	75	75	74	73	72	70	69	67	66	63																								
	6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	73	72	71	70	69	67	66	63	63	63																								
	7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	69	69	68	67	66	65	64	63	61	61	61																								
	8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	65	64	63	62	61	60	59	58	57	56																							
	9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	63	62	61	60	59	58	57	56	55	54	53	52																						
	10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	61	60	59	58	57	56	55	54	53	52	51	50																						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	694270
5°	624778
10°	484337
15°	350566
20°	242741
25°	176966
30°	128581
35°	76083
40°	31995
45°	9973
50°	1300
55°	728
60°	835
65°	988
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	20.3
10°-20°	762.4	34.7
20°-30°	606.0	27.6
30°-40°	320.8	14.6
40°-50°	55.2	2.5
50°-60°	4.2	0.2
60°-70°	2.1	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°	1813.8	82.6
0°-40°	2134.5	97.2
0°-60°	2194.0	99.9
0°-90°	2196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5651	
5°	5066	445
15°	2756	762
25°	1306	606
35°	507	321
45°	57	55
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5651.2
2.5°	5505.7
5°	5066.2
7.5°	4491.3
10°	3882.5
12.5°	3294.1
15°	2756.3
17.5°	2255.7
20°	1856.7
22.5°	1552.3
25°	1305.5
27.5°	1105.9
30°	906.4
32.5°	703.5
35°	507.3
37.5°	334.9
40°	199.5
42.5°	115.0
45°	57.4
47.5°	20.3
50°	6.8
52.5°	6.8
55°	3.4
57.5°	3.4
60°	3.4
62.5°	3.4
65°	3.4
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)