

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: P573060

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-50 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-90-50 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

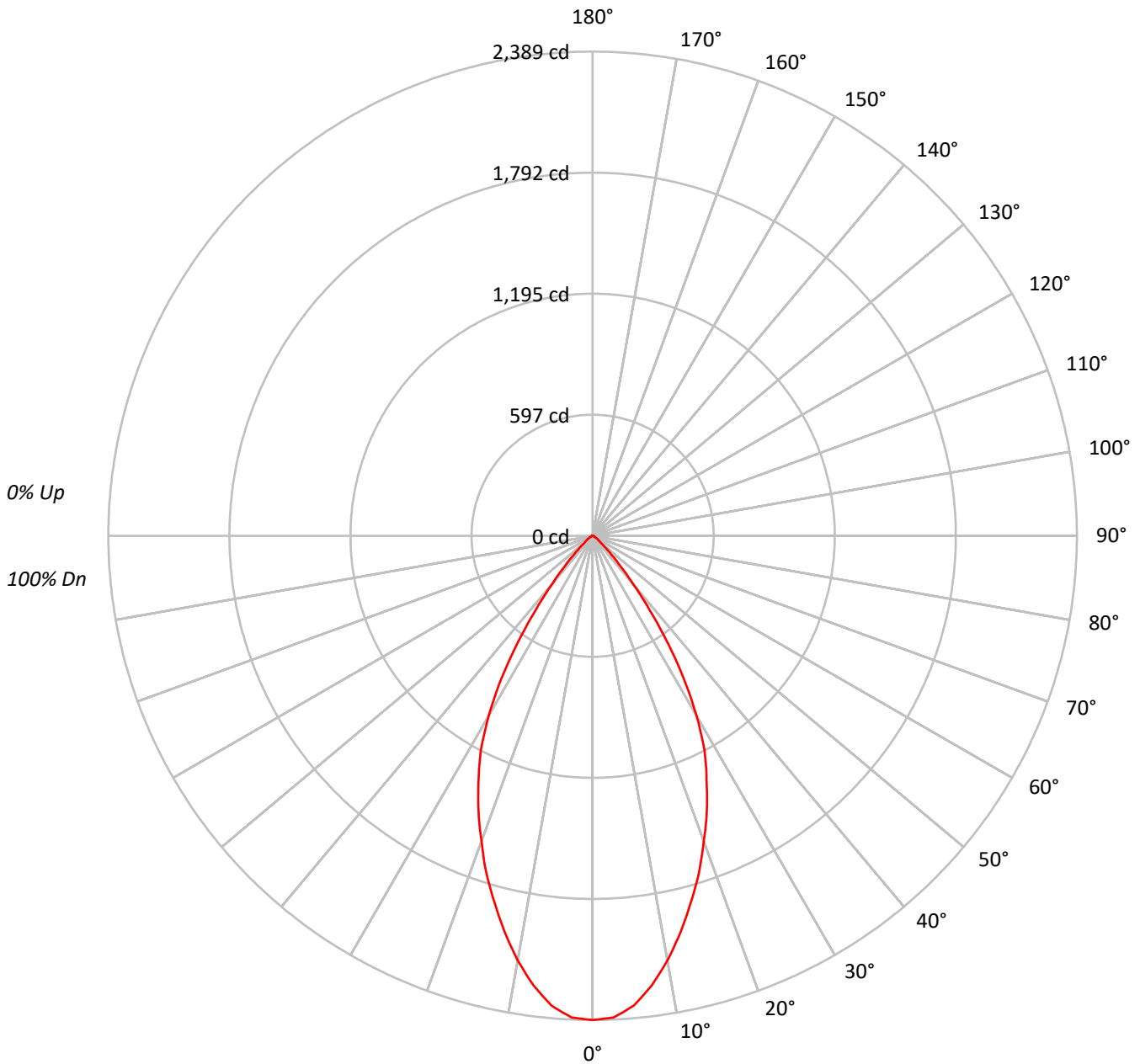
Lumens per Lamp: N/A
Luminaire Lumens: 1903.1 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93				93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70				70
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65				65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54				54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	293534
5°	286997
10°	265365
15°	238107
20°	209599
25°	180381
30°	145264
35°	96705
40°	50309
45°	22777
50°	9881
55°	6640
60°	4251
65°	3023
70°	2478
75°	1661
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	11.3
10°-20°	522.9	27.5
20°-30°	607.1	31.9
30°-40°	402.0	21.1
40°-50°	112.8	5.9
50°-60°	28.3	1.5
60°-70°	10.6	0.6
70°-80°	3.7	0.2
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°	1345.6	70.7
0°-40°	1747.6	91.8
0°-60°	1888.7	99.2
0°-90°	1903.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2389	
5°	2327	216
15°	1872	523
25°	1331	607
35°	645	402
45°	131	113
55°	31	28
65°	10	11
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2389.3
2.5°	2378.9
5°	2327.2
7.5°	2237.5
10°	2127.2
12.5°	2003.0
15°	1872.1
17.5°	1744.5
20°	1603.2
22.5°	1472.2
25°	1330.7
27.5°	1196.4
30°	1024.0
32.5°	841.2
35°	644.8
37.5°	462.0
40°	313.7
42.5°	203.4
45°	131.1
47.5°	79.4
50°	51.7
52.5°	37.9
55°	31.0
57.5°	24.2
60°	17.3
62.5°	13.8
65°	10.4
67.5°	6.9
70°	6.9
72.5°	3.5
75°	3.5
77.5°	3.5
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)