

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: P572964

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-90-30 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

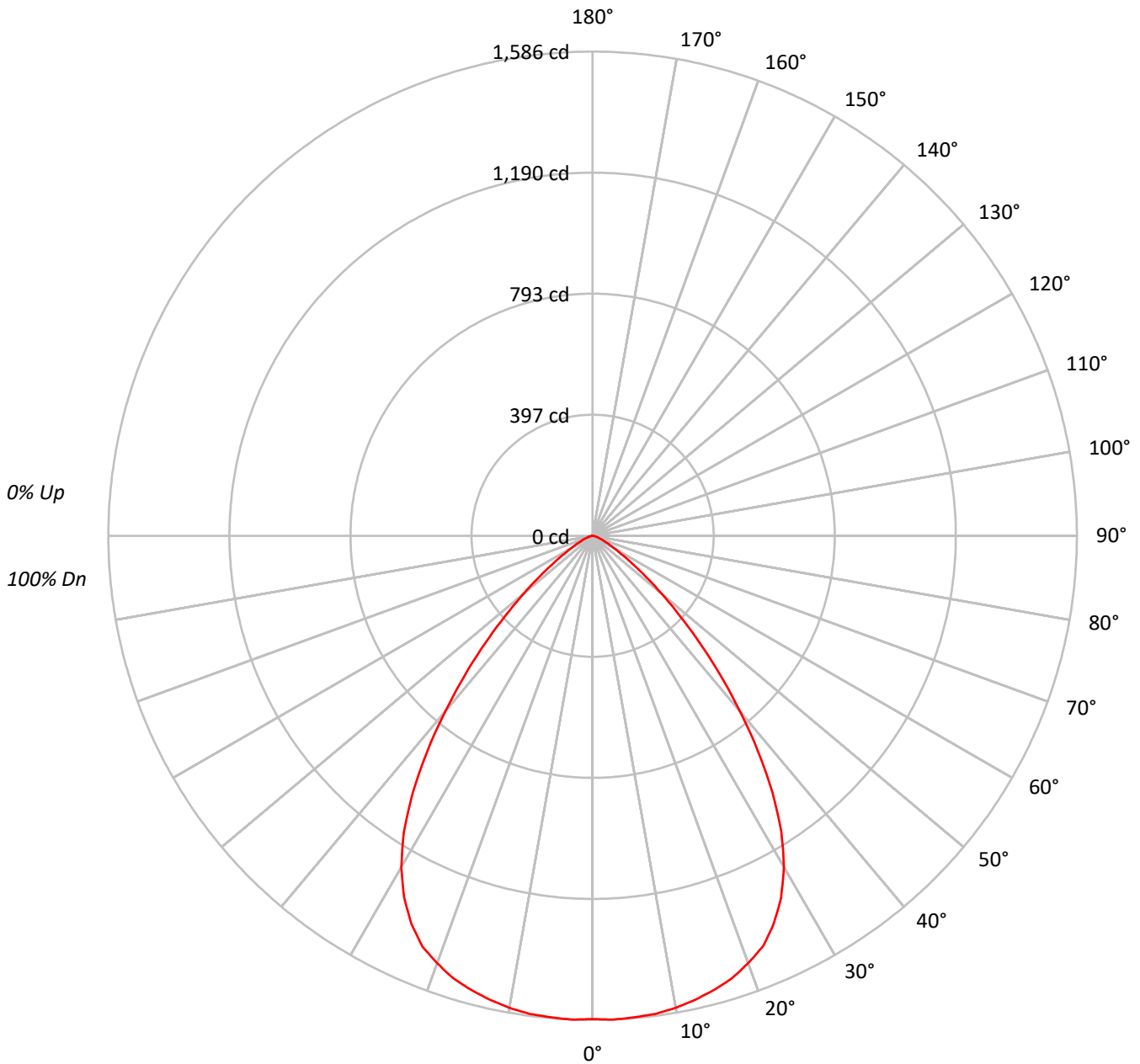
Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50				50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43				43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	194477
5°	195220
10°	195818
15°	195830
20°	194747
25°	190196
30°	177763
35°	153936
40°	120248
45°	86280
50°	56057
55°	33542
60°	19632
65°	12616
70°	8405
75°	6313
80°	4740
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	6.1
10°-20°	434.4	17.7
20°-30°	641.0	26.1
30°-40°	632.6	25.8
40°-50°	387.1	15.8
50°-60°	148.4	6.0
60°-70°	46.4	1.9
70°-80°	13.6	0.6
80°-90°	1.8	0.1
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°	1226.1	49.9
0°-40°	1858.7	75.7
0°-60°	2394.2	97.5
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1583	
5°	1583	151
15°	1540	434
25°	1403	641
35°	1026	633
45°	497	387
55°	157	148
65°	43	46
75°	13	14
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1583.0
2.5°	1586.4
5°	1583.0
7.5°	1579.7
10°	1569.7
12.5°	1556.4
15°	1539.7
17.5°	1519.7
20°	1489.6
22.5°	1456.4
25°	1403.1
27.5°	1336.3
30°	1253.1
32.5°	1149.8
35°	1026.4
37.5°	889.8
40°	749.8
42.5°	619.9
45°	496.6
47.5°	386.5
50°	293.3
52.5°	216.7
55°	156.6
57.5°	109.9
60°	79.9
62.5°	60.0
65°	43.4
67.5°	33.4
70°	23.4
72.5°	16.7
75°	13.3
77.5°	6.7
80°	6.7
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)