

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: P573252

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573252
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-35-D010 FEU4C-X-90-50 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

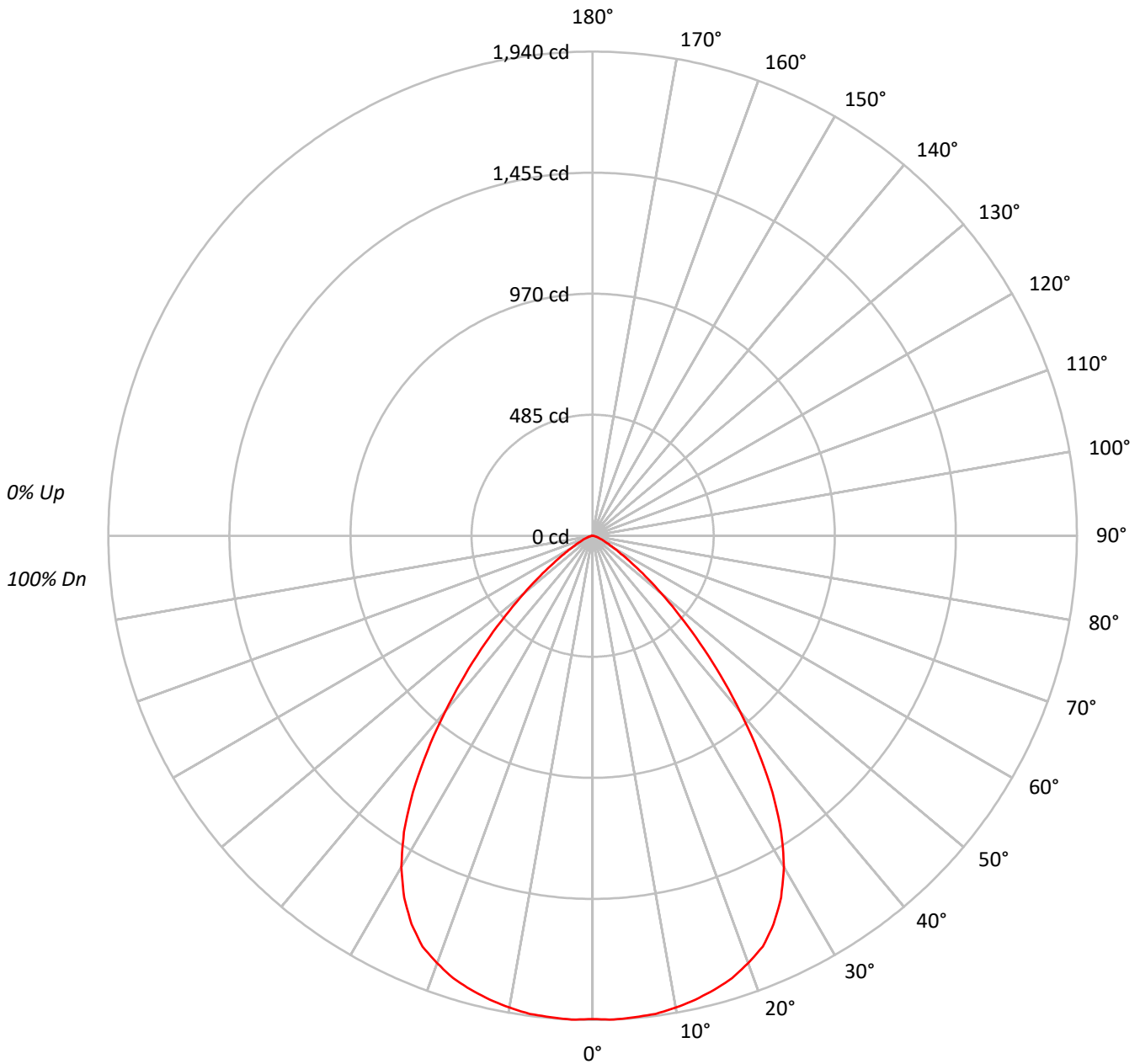
Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	237881
5°	238790
10°	239505
15°	239519
20°	238205
25°	232624
30°	217427
35°	188280
40°	147079
45°	105530
50°	68557
55°	41039
60°	24006
65°	15407
70°	10273
75°	7737
80°	5801
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	6.1
10°-20°	531.3	17.7
20°-30°	784.0	26.1
30°-40°	773.7	25.8
40°-50°	473.5	15.8
50°-60°	181.5	6.0
60°-70°	56.7	1.9
70°-80°	16.7	0.6
80°-90°	2.2	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°	1499.7	49.9
0°-40°	2273.4	75.7
0°-60°	2928.4	97.5
0°-90°	3004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1936	
5°	1936	184
15°	1883	531
25°	1716	784
35°	1255	774
45°	607	473
55°	192	182
65°	53	57
75°	16	17
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1936.3
2.5°	1940.3
5°	1936.3
7.5°	1932.2
10°	1919.9
12.5°	1903.6
15°	1883.2
17.5°	1858.7
20°	1822.0
22.5°	1781.4
25°	1716.1
27.5°	1634.5
30°	1532.7
32.5°	1406.4
35°	1255.4
37.5°	1088.3
40°	917.1
42.5°	758.2
45°	607.4
47.5°	472.8
50°	358.7
52.5°	265.0
55°	191.6
57.5°	134.5
60°	97.7
62.5°	73.4
65°	53.0
67.5°	40.8
70°	28.6
72.5°	20.4
75°	16.3
77.5°	8.2
80°	8.2
82.5°	4.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)