

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: P573144

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-30 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573144
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-90-30 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

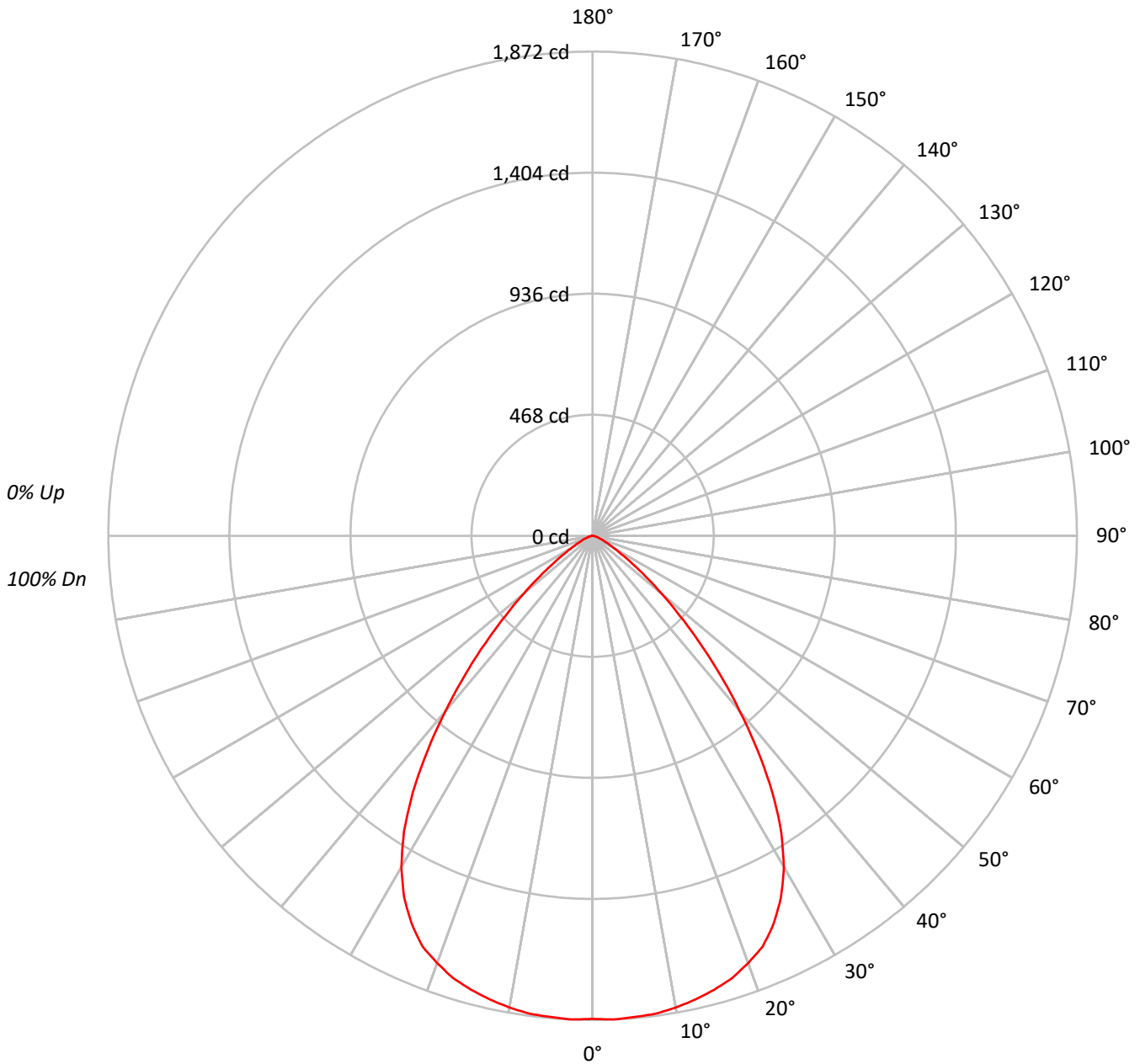
Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				
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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229478
5°	230355
10°	231060
15°	231074
20°	229798
25°	224423
30°	209753
35°	181636
40°	141899
45°	101812
50°	66130
55°	39582
60°	23170
65°	14884
70°	9914
75°	7452
80°	5589
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	6.1
10°-20°	512.6	17.7
20°-30°	756.3	26.1
30°-40°	746.4	25.8
40°-50°	456.8	15.8
50°-60°	175.1	6.0
60°-70°	54.8	1.9
70°-80°	16.1	0.6
80°-90°	2.1	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°	1446.8	49.9
0°-40°	2193.2	75.7
0°-60°	2825.1	97.5
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1868	
5°	1868	178
15°	1817	513
25°	1656	756
35°	1211	746
45°	586	457
55°	185	175
65°	51	55
75°	16	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1867.9
2.5°	1871.9
5°	1867.9
7.5°	1864.0
10°	1852.2
12.5°	1836.4
15°	1816.8
17.5°	1793.1
20°	1757.7
22.5°	1718.5
25°	1655.6
27.5°	1576.8
30°	1478.6
32.5°	1356.8
35°	1211.1
37.5°	1049.9
40°	884.8
42.5°	731.4
45°	586.0
47.5°	456.1
50°	346.0
52.5°	255.7
55°	184.8
57.5°	129.7
60°	94.3
62.5°	70.9
65°	51.2
67.5°	39.4
70°	27.6
72.5°	19.7
75°	15.7
77.5°	7.9
80°	7.9
82.5°	3.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)