

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: P573120

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

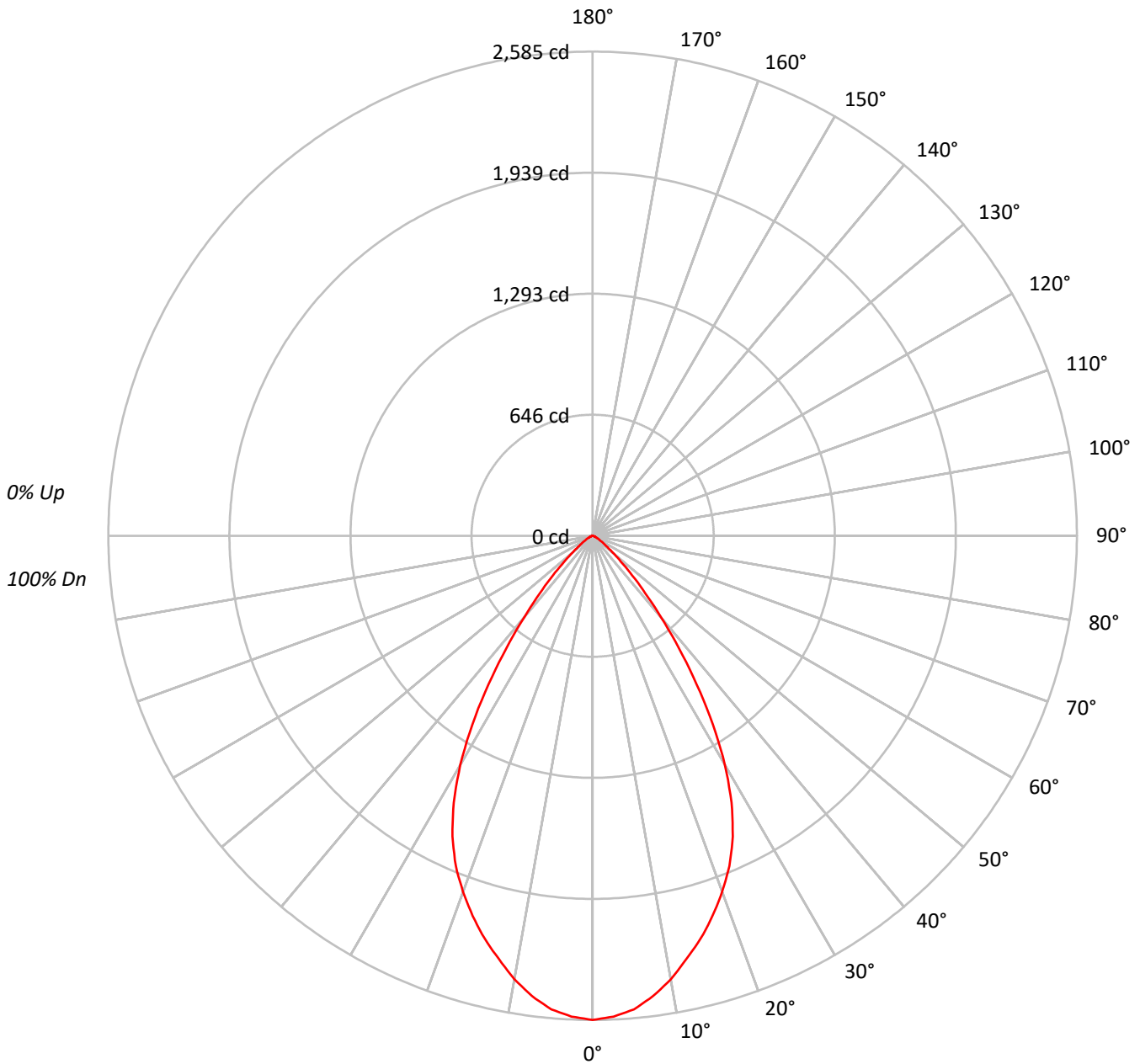
Lumens per Lamp: N/A
Luminaire Lumens: 2607.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	317576
5°	312968
10°	299883
15°	283246
20°	264391
25°	240012
30°	200390
35°	145162
40°	90868
45°	51949
50°	27083
55°	15186
60°	9681
65°	5727
70°	4239
75°	1851
80°	2759
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	9.1
10°-20°	624.0	23.9
20°-30°	802.0	30.8
30°-40°	603.4	23.1
40°-50°	242.3	9.3
50°-60°	68.9	2.6
60°-70°	21.8	0.8
70°-80°	6.2	0.2
80°-90°	0.5	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°	1663.8	63.8
0°-40°	2267.2	87.0
0°-60°	2578.5	98.9
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2585	
5°	2538	238
15°	2227	624
25°	1771	802
35°	968	603
45°	299	242
55°	71	69
65°	20	22
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2585.0
2.5°	2569.3
5°	2537.8
7.5°	2478.7
10°	2403.9
12.5°	2313.6
15°	2227.0
17.5°	2128.6
20°	2022.3
22.5°	1908.3
25°	1770.6
27.5°	1605.2
30°	1412.6
32.5°	1196.1
35°	967.9
37.5°	755.4
40°	566.6
42.5°	417.1
45°	299.0
47.5°	204.7
50°	141.7
52.5°	98.4
55°	70.9
57.5°	51.2
60°	39.4
62.5°	27.6
65°	19.7
67.5°	15.7
70°	11.8
72.5°	7.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)