

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: P573180

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573180
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-90-35 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

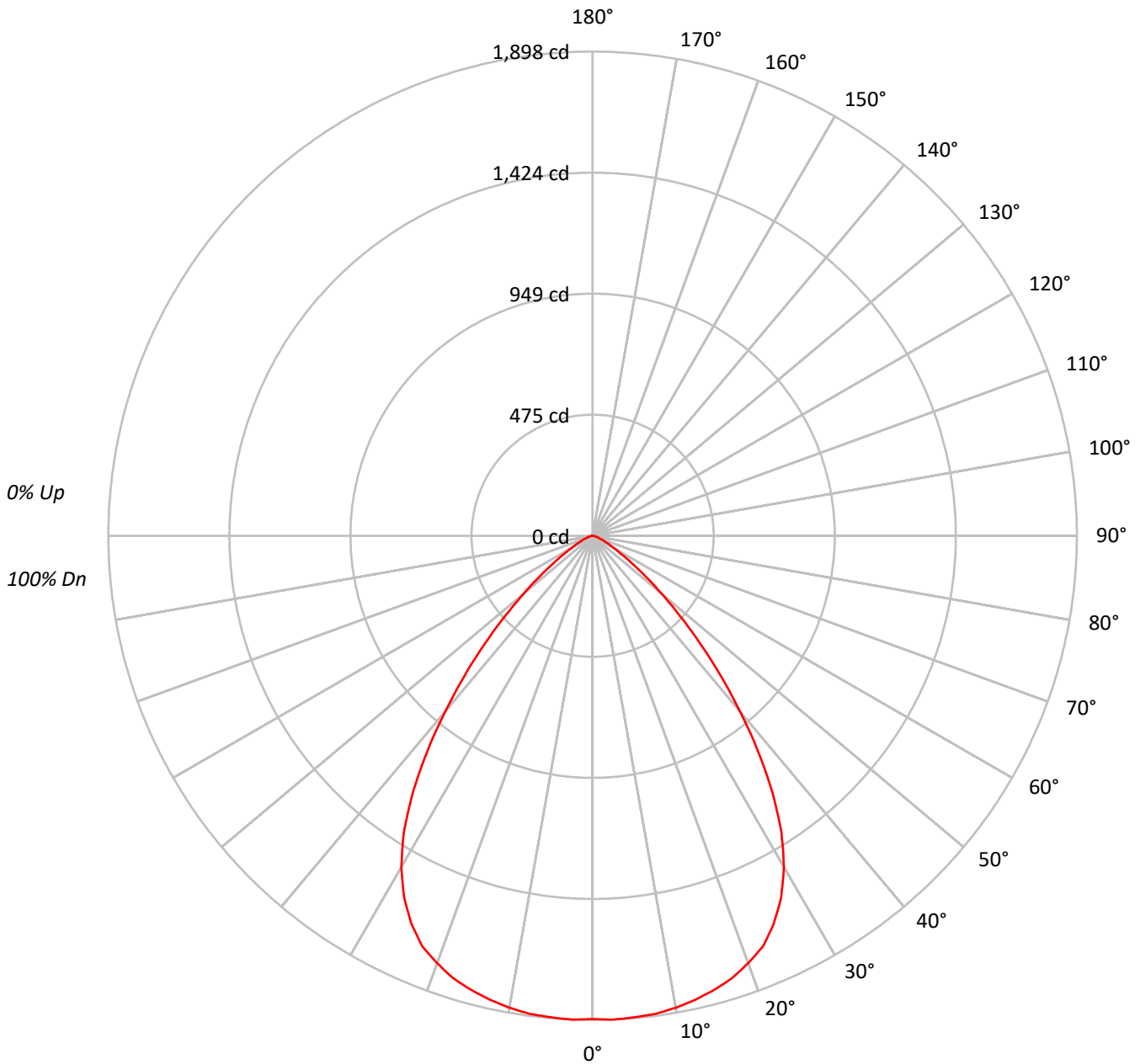
Lumens per Lamp: N/A
Luminaire Lumens: 2939.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			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°	232734
5°	233623
10°	234328
15°	234343
20°	233053
25°	227595
30°	212718
35°	184216
40°	143903
45°	103254
50°	67066
55°	40139
60°	23490
65°	15087
70°	10022
75°	7595
80°	5660
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	6.1
10°-20°	519.8	17.7
20°-30°	767.0	26.1
30°-40°	757.0	25.8
40°-50°	463.2	15.8
50°-60°	177.6	6.0
60°-70°	55.5	1.9
70°-80°	16.3	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°	1467.3	49.9
0°-40°	2224.2	75.7
0°-60°	2865.0	97.5
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1894	
5°	1894	180
15°	1842	520
25°	1679	767
35°	1228	757
45°	594	463
55°	187	178
65°	52	56
75°	16	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1894.4
2.5°	1898.4
5°	1894.4
7.5°	1890.4
10°	1878.4
12.5°	1862.4
15°	1842.5
17.5°	1818.5
20°	1782.6
22.5°	1742.8
25°	1679.0
27.5°	1599.1
30°	1499.5
32.5°	1376.0
35°	1228.3
37.5°	1064.8
40°	897.3
42.5°	741.8
45°	594.3
47.5°	462.5
50°	350.9
52.5°	259.3
55°	187.4
57.5°	131.6
60°	95.6
62.5°	71.9
65°	51.9
67.5°	39.9
70°	27.9
72.5°	20.0
75°	16.0
77.5°	8.0
80°	8.0
82.5°	4.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)