

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: P573682

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-30 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573682
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-50-D010 FEU4C-X-90-30 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

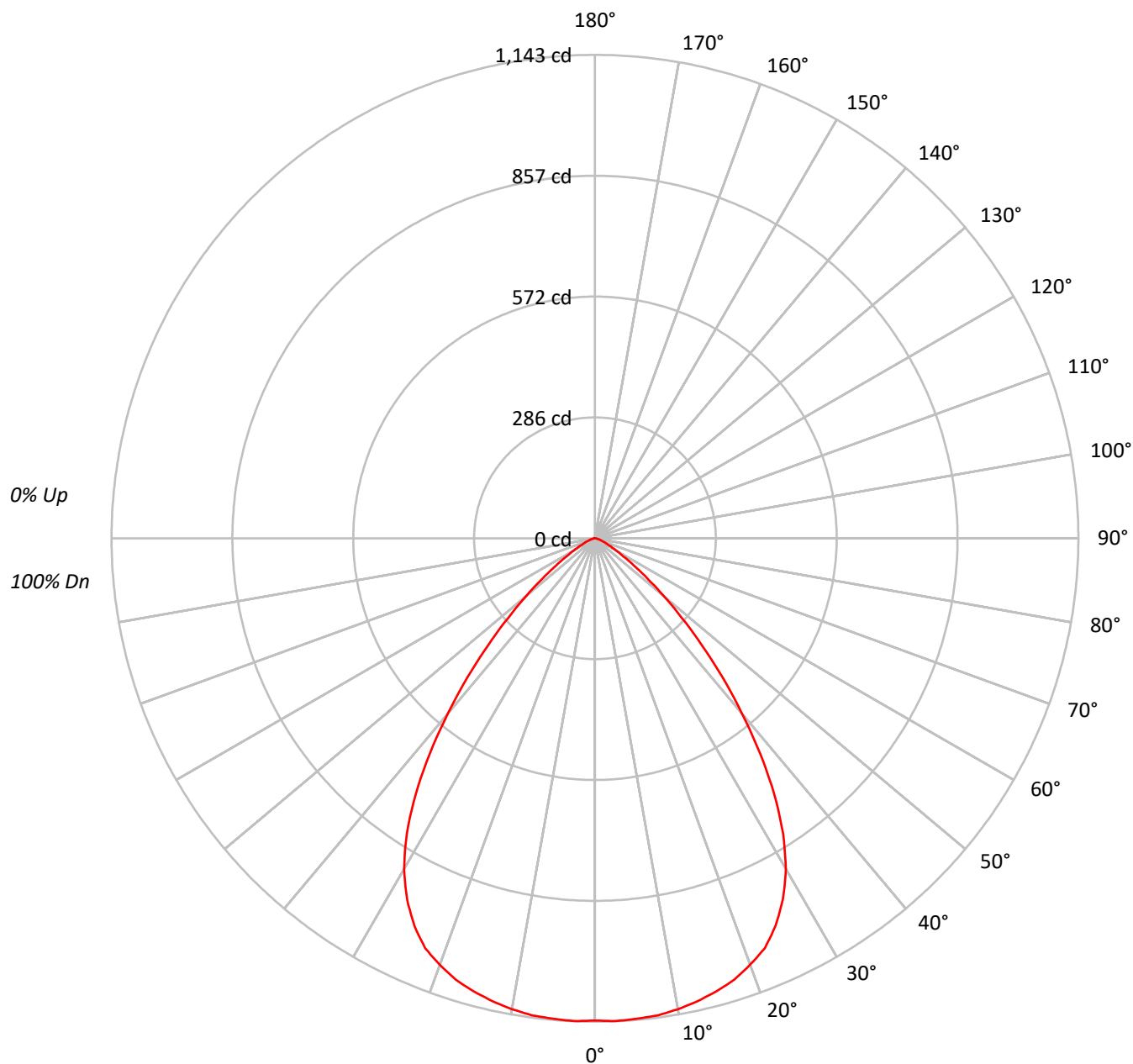
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			96
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			89
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			82
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			76
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			70
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			65
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			61
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			57
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			53
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140078
5°	140613
10°	141041
15°	141051
20°	140269
25°	136991
30°	128042
35°	110878
40°	86618
45°	62147
50°	40366
55°	24160
60°	14153
65°	9070
70°	6035
75°	4557
80°	3396
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	6.1
10°-20°	312.9	17.7
20°-30°	461.7	26.1
30°-40°	455.6	25.8
40°-50°	278.8	15.8
50°-60°	106.9	6.0
60°-70°	33.4	1.9
70°-80°	9.8	0.6
80°-90°	1.3	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°	883.1	49.9
0°-40°	1338.8	75.7
0°-60°	1724.5	97.5
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1140	
5°	1140	109
15°	1109	313
25°	1011	462
35°	739	456
45°	358	279
55°	113	107
65°	31	33
75°	10	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1140.2
2.5°	1142.6
5°	1140.2
7.5°	1137.8
10°	1130.6
12.5°	1121.0
15°	1109.0
17.5°	1094.6
20°	1072.9
22.5°	1049.0
25°	1010.6
27.5°	962.5
30°	902.6
32.5°	828.2
35°	739.3
37.5°	640.9
40°	540.1
42.5°	446.5
45°	357.7
47.5°	278.4
50°	211.2
52.5°	156.1
55°	112.8
57.5°	79.2
60°	57.6
62.5°	43.2
65°	31.2
67.5°	24.0
70°	16.8
72.5°	12.0
75°	9.6
77.5°	4.8
80°	4.8
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)