

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: P573106

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573106
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-90-27 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

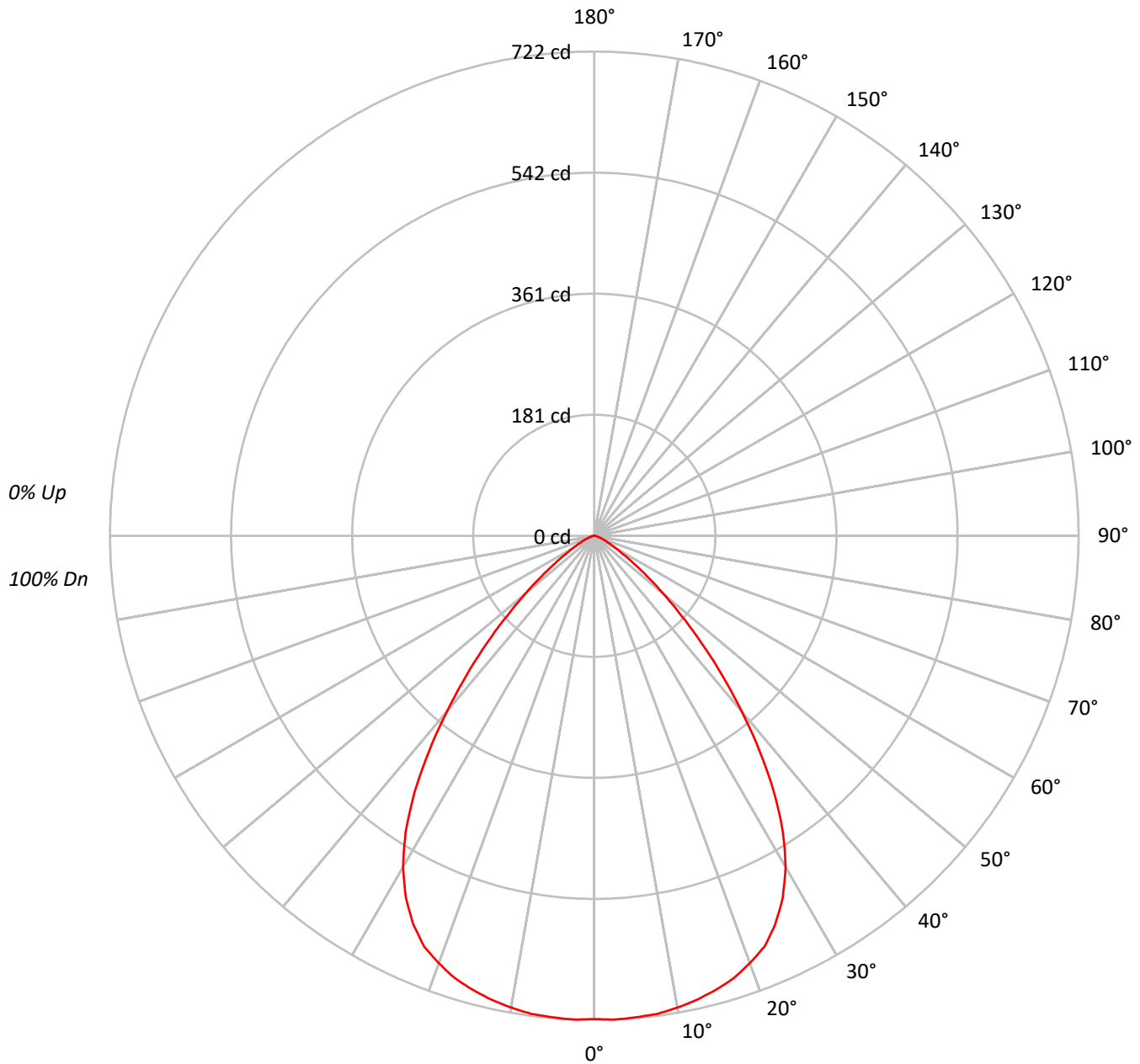
Lumens per Lamp: N/A
Luminaire Lumens: 1117.9 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (Ain): 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°	88528
5°	88866
10°	89133
15°	89146
20°	88653
25°	86578
30°	80916
35°	70069
40°	54736
45°	39283
50°	25515
55°	15272
60°	8944
65°	5727
70°	3808
75°	2895
80°	2122
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	6.1
10°-20°	197.7	17.7
20°-30°	291.8	26.1
30°-40°	287.9	25.8
40°-50°	176.2	15.8
50°-60°	67.5	6.0
60°-70°	21.1	1.9
70°-80°	6.2	0.6
80°-90°	0.8	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°	558.2	49.9
0°-40°	846.1	75.7
0°-60°	1089.8	97.5
0°-90°	1117.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	721	
5°	721	69
15°	701	198
25°	639	292
35°	467	288
45°	226	176
55°	71	68
65°	20	21
75°	6	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	720.6
2.5°	722.1
5°	720.6
7.5°	719.1
10°	714.5
12.5°	708.5
15°	700.9
17.5°	691.8
20°	678.1
22.5°	663.0
25°	638.7
27.5°	608.3
30°	570.4
32.5°	523.4
35°	467.2
37.5°	405.0
40°	341.3
42.5°	282.2
45°	226.1
47.5°	175.9
50°	133.5
52.5°	98.6
55°	71.3
57.5°	50.0
60°	36.4
62.5°	27.3
65°	19.7
67.5°	15.2
70°	10.6
72.5°	7.6
75°	6.1
77.5°	3.0
80°	3.0
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)