

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: P571811

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571811
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-02-D010 FEU4C-X-90-50 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

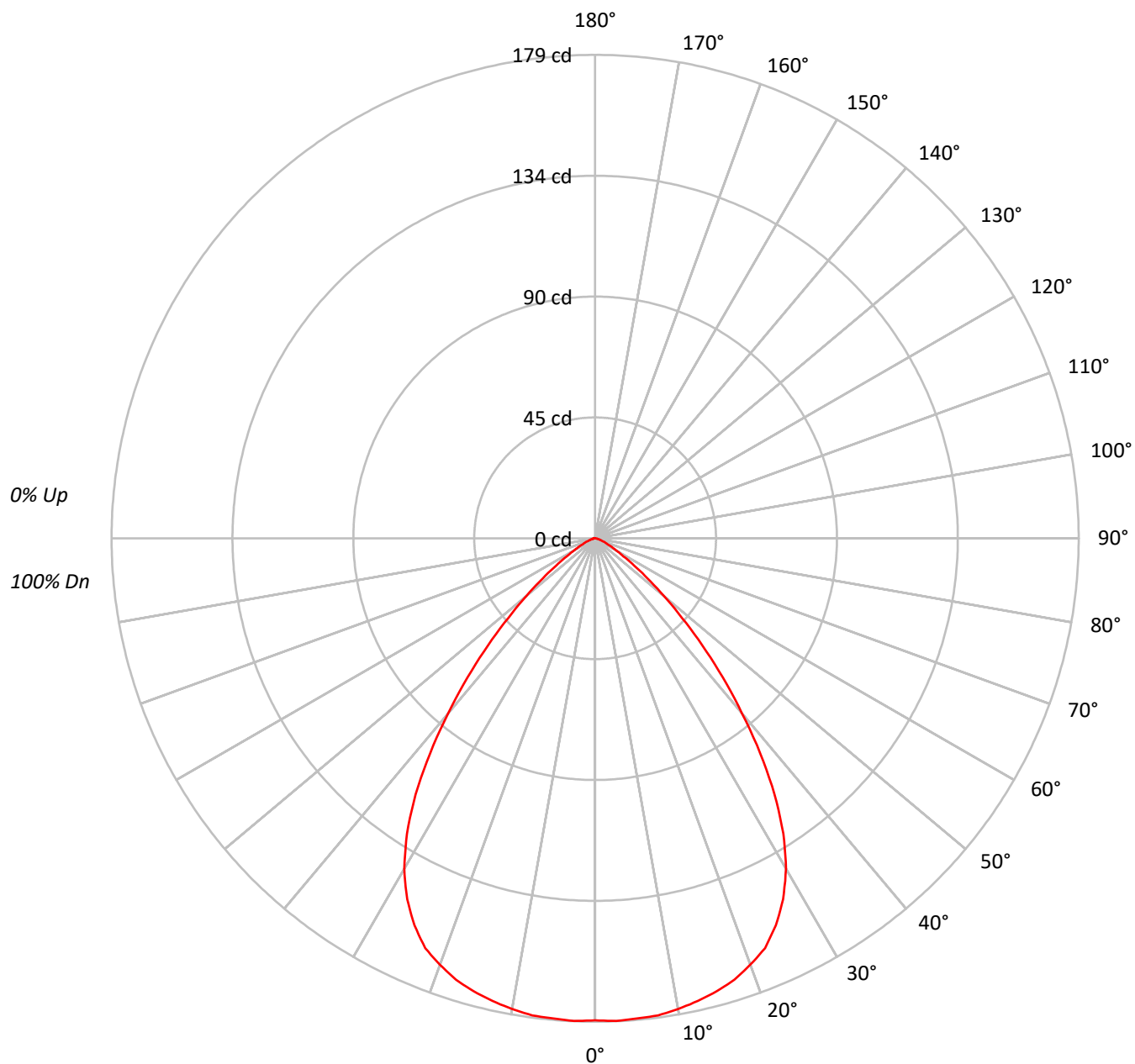
Lumens per Lamp: N/A
Luminaire Lumens: 277.1 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	63	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		56	52	48
9	67	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21929
5°	22013
10°	22081
15°	22092
20°	21964
25°	21445
30°	20045
35°	17367
40°	13568
45°	9729
50°	6326
55°	3791
60°	2211
65°	1424
70°	934
75°	712
80°	566
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	6.1
10°-20°	49.0	17.7
20°-30°	72.3	26.1
30°-40°	71.4	25.8
40°-50°	43.7	15.8
50°-60°	16.7	6.0
60°-70°	5.2	1.9
70°-80°	1.6	0.6
80°-90°	0.2	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°	138.3	49.9
0°-40°	209.6	75.7
0°-60°	270.0	97.5
0°-90°	277.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	178	
5°	178	17
15°	174	49
25°	158	72
35°	116	71
45°	56	44
55°	18	17
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	178.5
2.5°	178.9
5°	178.5
7.5°	178.2
10°	177.0
12.5°	175.5
15°	173.7
17.5°	171.4
20°	168.0
22.5°	164.3
25°	158.2
27.5°	150.7
30°	141.3
32.5°	129.7
35°	115.8
37.5°	100.4
40°	84.6
42.5°	69.9
45°	56.0
47.5°	43.6
50°	33.1
52.5°	24.4
55°	17.7
57.5°	12.4
60°	9.0
62.5°	6.8
65°	4.9
67.5°	3.8
70°	2.6
72.5°	1.9
75°	1.5
77.5°	0.8
80°	0.8
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)