

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: P573646

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573646
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-90-27 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

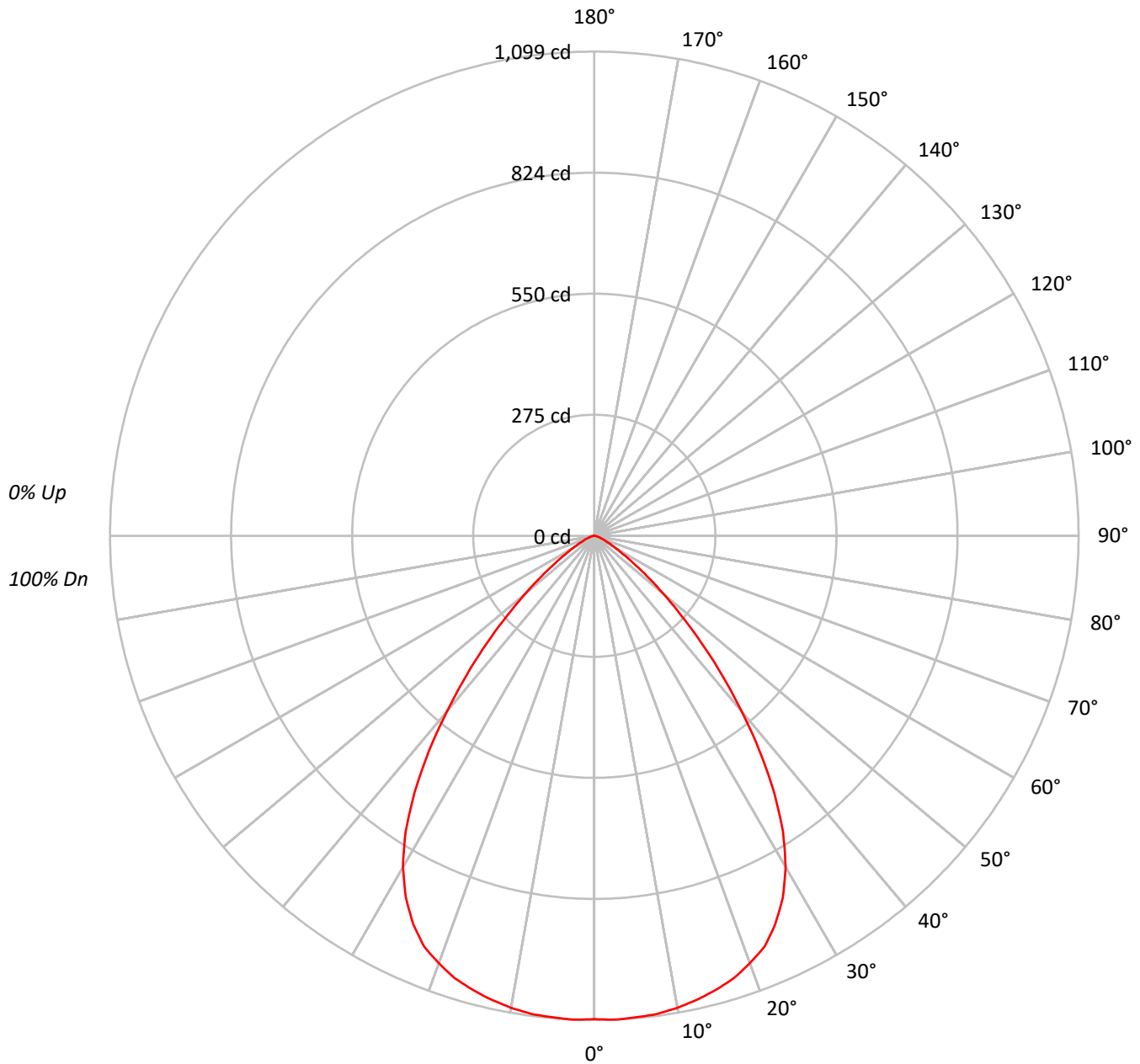
Lumens per Lamp: N/A
Luminaire Lumens: 1702.0 lumens
Efficiency: N/A
Efficacy: 29.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (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				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						
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82						
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74						
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67						
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61						
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55						
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50						
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46						
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43						
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134770
5°	135285
10°	135702
15°	135709
20°	134961
25°	131799
30°	123190
35°	106678
40°	83330
45°	59784
50°	38837
55°	23239
60°	13612
65°	8750
70°	5819
75°	4367
80°	3254
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	6.1
10°-20°	301.0	17.7
20°-30°	444.2	26.1
30°-40°	438.4	25.8
40°-50°	268.3	15.8
50°-60°	102.8	6.0
60°-70°	32.2	1.9
70°-80°	9.4	0.6
80°-90°	1.2	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°	849.7	49.9
0°-40°	1288.1	75.7
0°-60°	1659.2	97.5
0°-90°	1702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1702.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1097	
5°	1097	104
15°	1067	301
25°	972	444
35°	711	438
45°	344	268
55°	108	103
65°	30	32
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1097.0
2.5°	1099.4
5°	1097.0
7.5°	1094.7
10°	1087.8
12.5°	1078.5
15°	1067.0
17.5°	1053.1
20°	1032.3
22.5°	1009.3
25°	972.3
27.5°	926.1
30°	868.4
32.5°	796.8
35°	711.3
37.5°	616.6
40°	519.6
42.5°	429.6
45°	344.1
47.5°	267.9
50°	203.2
52.5°	150.2
55°	108.5
57.5°	76.2
60°	55.4
62.5°	41.6
65°	30.1
67.5°	23.1
70°	16.2
72.5°	11.6
75°	9.2
77.5°	4.6
80°	4.6
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)