

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: P573635

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-N-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

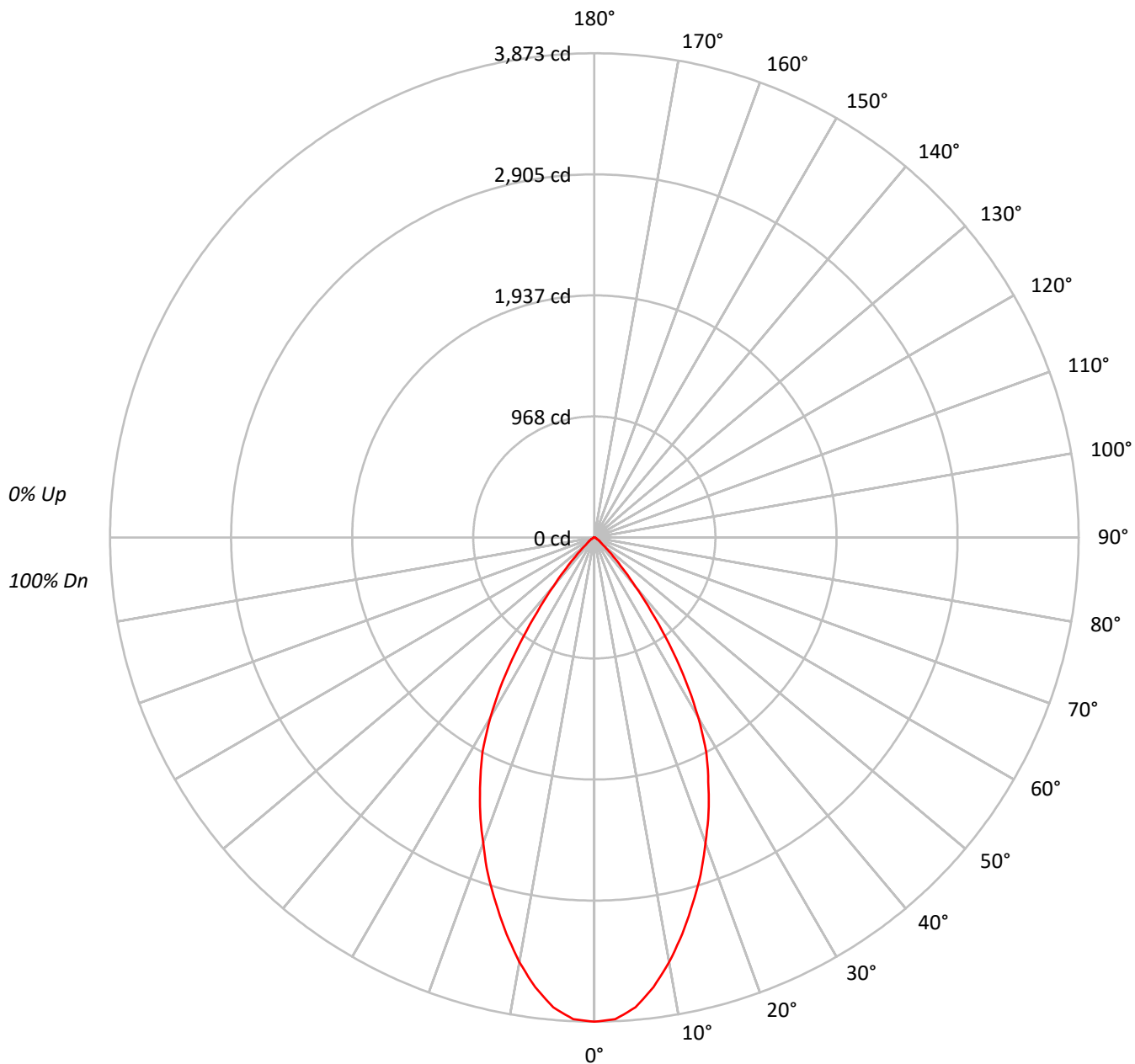
Lumens per Lamp: N/A
Luminaire Lumens: 3085.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93						
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75						
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70						
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65						
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61						
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58						
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54						
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	475848
5°	465260
10°	430183
15°	386001
20°	339788
25°	292430
30°	235486
35°	156770
40°	81550
45°	36920
50°	16016
55°	10752
60°	6880
65°	4884
70°	4023
75°	2658
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.5	11.3
10°-20°	847.7	27.5
20°-30°	984.2	31.9
30°-40°	651.8	21.1
40°-50°	182.8	5.9
50°-60°	45.9	1.5
60°-70°	17.2	0.6
70°-80°	5.9	0.2
80°-90°	0.0	0.0
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°	2181.3	70.7
0°-40°	2833.1	91.8
0°-60°	3061.9	99.2
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3873	
5°	3773	349
15°	3035	848
25°	2157	984
35°	1045	652
45°	212	183
55°	50	46
65°	17	17
75°	6	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3873.3
2.5°	3856.5
5°	3772.7
7.5°	3627.3
10°	3448.4
12.5°	3247.2
15°	3034.9
17.5°	2828.1
20°	2599.0
22.5°	2386.6
25°	2157.3
27.5°	1939.5
30°	1660.0
32.5°	1363.7
35°	1045.3
37.5°	749.0
40°	508.5
42.5°	329.7
45°	212.5
47.5°	128.7
50°	83.8
52.5°	61.4
55°	50.2
57.5°	39.2
60°	28.0
62.5°	22.4
65°	16.8
67.5°	11.2
70°	11.2
72.5°	5.6
75°	5.6
77.5°	5.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)