

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: P572735

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-N-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572735
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-25-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

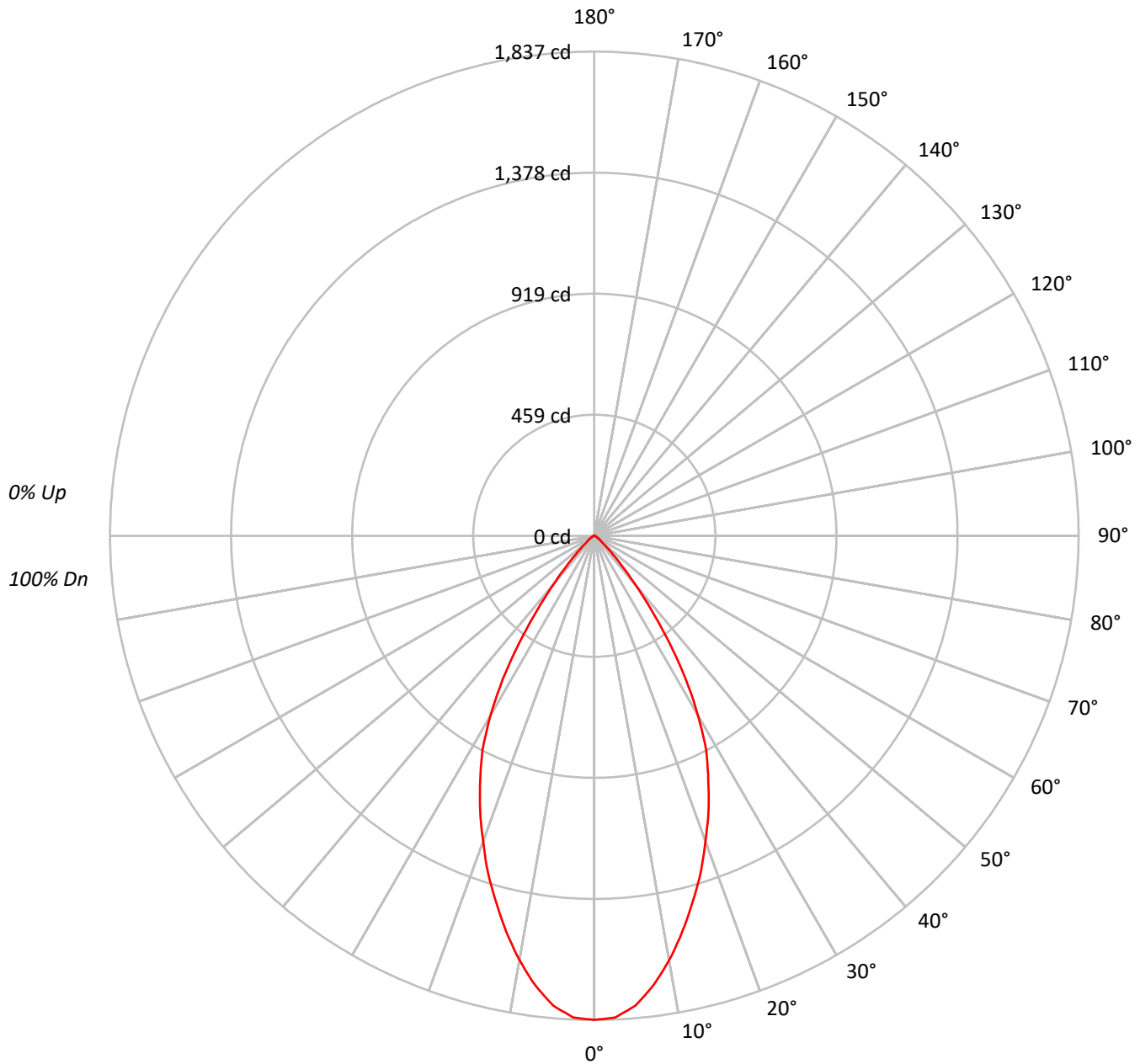
Lumens per Lamp: N/A
Luminaire Lumens: 1463.0 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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				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°	225670
5°	220637
10°	204002
15°	183061
20°	161135
25°	138685
30°	111671
35°	74343
40°	38666
45°	17513
50°	7588
55°	5098
60°	3268
65°	2326
70°	1904
75°	1282
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	11.3
10°-20°	402.0	27.5
20°-30°	466.7	31.9
30°-40°	309.1	21.1
40°-50°	86.7	5.9
50°-60°	21.8	1.5
60°-70°	8.2	0.6
70°-80°	2.8	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°	1034.5	70.7
0°-40°	1343.5	91.8
0°-60°	1452.0	99.2
0°-90°	1463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1837	
5°	1789	166
15°	1439	402
25°	1023	467
35°	496	309
45°	101	87
55°	24	22
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1836.9
2.5°	1828.9
5°	1789.1
7.5°	1720.2
10°	1635.3
12.5°	1539.9
15°	1439.3
17.5°	1341.2
20°	1232.5
22.5°	1131.8
25°	1023.1
27.5°	919.8
30°	787.2
32.5°	646.7
35°	495.7
37.5°	355.2
40°	241.1
42.5°	156.3
45°	100.8
47.5°	61.0
50°	39.7
52.5°	29.1
55°	23.8
57.5°	18.6
60°	13.3
62.5°	10.6
65°	8.0
67.5°	5.3
70°	5.3
72.5°	2.7
75°	2.7
77.5°	2.7
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)