

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: P573113

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-W-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
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-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

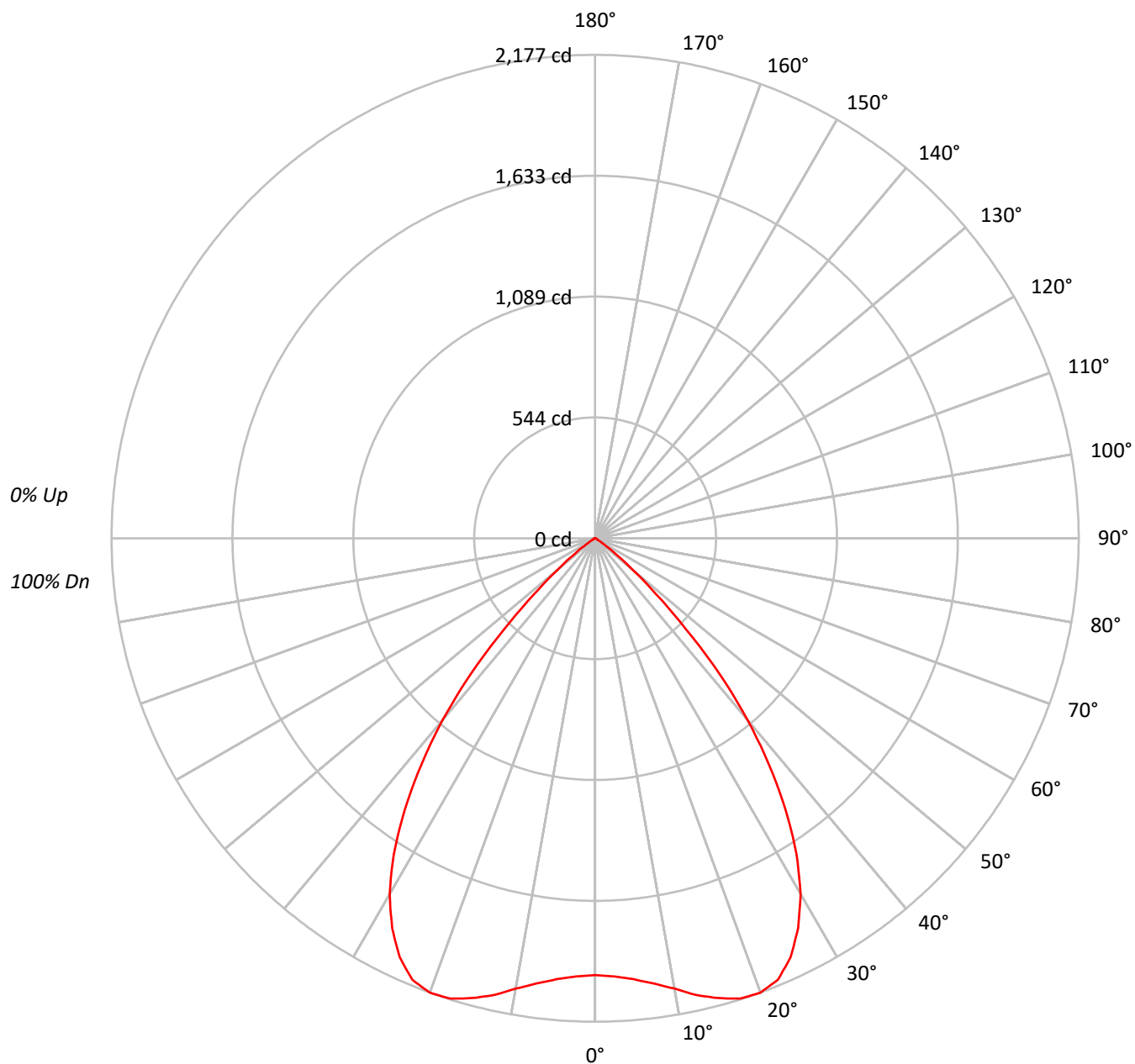
Lumens per Lamp: N/A
Luminaire Lumens: 3211.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	100	100				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92				
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84				
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77				
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54				
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49				
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45				
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	241702
5°	245795
10°	256907
15°	272677
20°	284630
25°	282155
30°	262397
35°	224470
40°	171023
45°	100318
50°	42870
55°	12616
60°	3612
65°	2151
70°	1329
75°	1756
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	6.0
10°-20°	607.2	18.9
20°-30°	947.2	29.5
30°-40°	921.6	28.7
40°-50°	460.3	14.3
50°-60°	71.3	2.2
60°-70°	8.6	0.3
70°-80°	2.4	0.1
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°	1746.8	54.4
0°-40°	2668.4	83.1
0°-60°	3199.9	99.7
0°-90°	3211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1967	
5°	1993	192
15°	2144	607
25°	2082	947
35°	1497	922
45°	577	460
55°	59	71
65°	7	9
75°	4	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1967.4
2.5°	1974.7
5°	1993.1
7.5°	2022.6
10°	2059.4
12.5°	2107.1
15°	2143.9
17.5°	2173.4
20°	2177.1
22.5°	2151.3
25°	2081.5
27.5°	1978.4
30°	1849.7
32.5°	1688.0
35°	1496.7
37.5°	1287.0
40°	1066.4
42.5°	831.1
45°	577.4
47.5°	371.4
50°	224.3
52.5°	121.3
55°	58.9
57.5°	25.8
60°	14.7
62.5°	11.0
65°	7.4
67.5°	7.4
70°	3.7
72.5°	3.7
75°	3.7
77.5°	0.0
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)