

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: P573107

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573107
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-35-D010 FEU4C-X-90-27 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

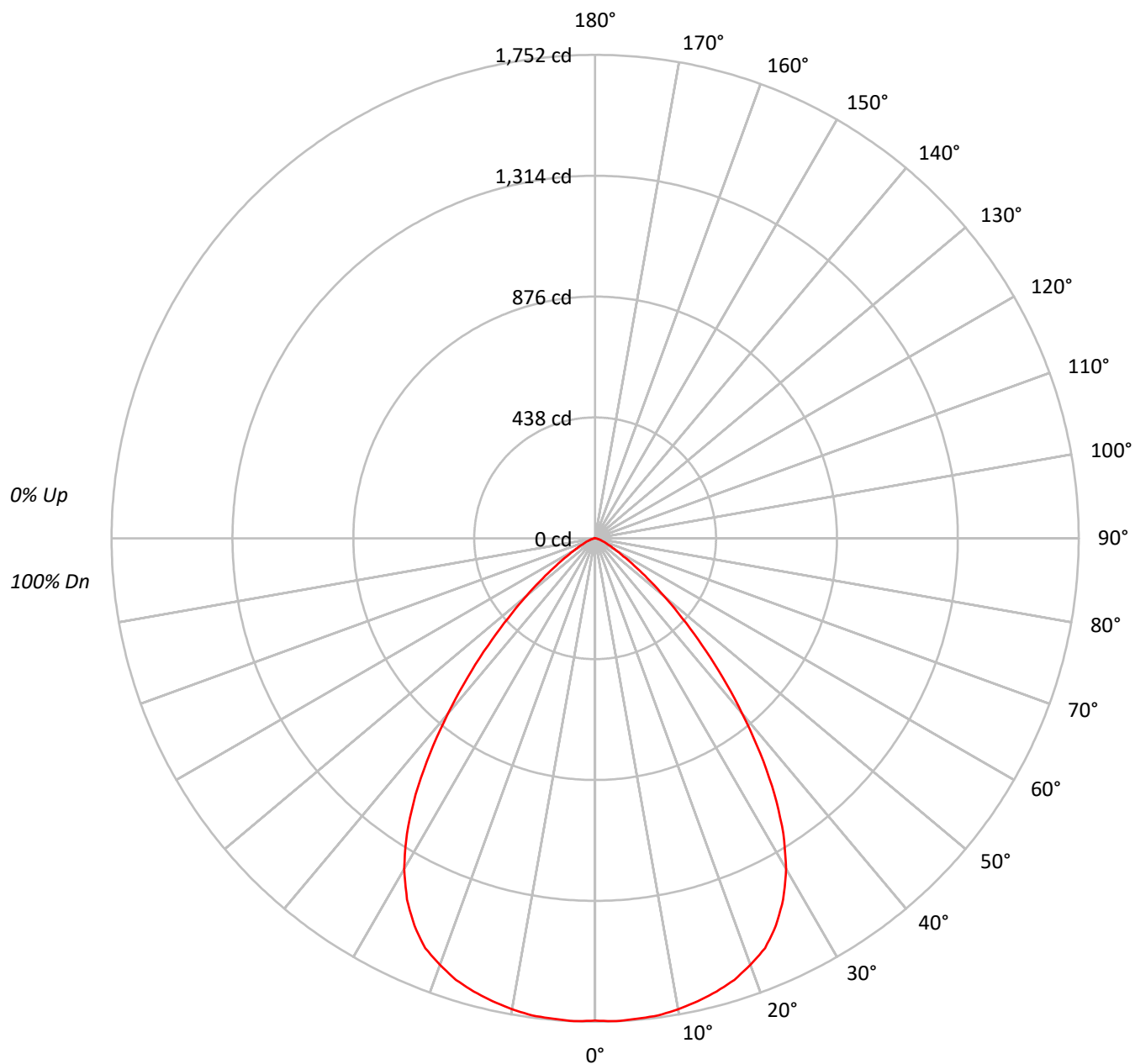
Lumens per Lamp: N/A
Luminaire Lumens: 2712.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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						
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°	214748
5°	215568
10°	216227
15°	216244
20°	215051
25°	210014
30°	196290
35°	169983
40°	132790
45°	95280
50°	61887
55°	37055
60°	21671
65°	13924
70°	9267
75°	6978
80°	5235
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	6.1
10°-20°	479.7	17.7
20°-30°	707.8	26.1
30°-40°	698.5	25.8
40°-50°	427.5	15.8
50°-60°	163.9	6.0
60°-70°	51.2	1.9
70°-80°	15.0	0.6
80°-90°	2.0	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°	1353.9	49.9
0°-40°	2052.4	75.7
0°-60°	2643.8	97.5
0°-90°	2712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1748	
5°	1748	166
15°	1700	480
25°	1549	708
35°	1133	698
45°	548	427
55°	173	164
65°	48	51
75°	15	15
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1748.0
2.5°	1751.7
5°	1748.0
7.5°	1744.4
10°	1733.3
12.5°	1718.6
15°	1700.2
17.5°	1678.1
20°	1644.9
22.5°	1608.2
25°	1549.3
27.5°	1475.6
30°	1383.7
32.5°	1269.7
35°	1133.4
37.5°	982.5
40°	828.0
42.5°	684.5
45°	548.4
47.5°	426.8
50°	323.8
52.5°	239.3
55°	173.0
57.5°	121.4
60°	88.2
62.5°	66.3
65°	47.9
67.5°	36.8
70°	25.8
72.5°	18.4
75°	14.7
77.5°	7.4
80°	7.4
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)