

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: P573648

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573648
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
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

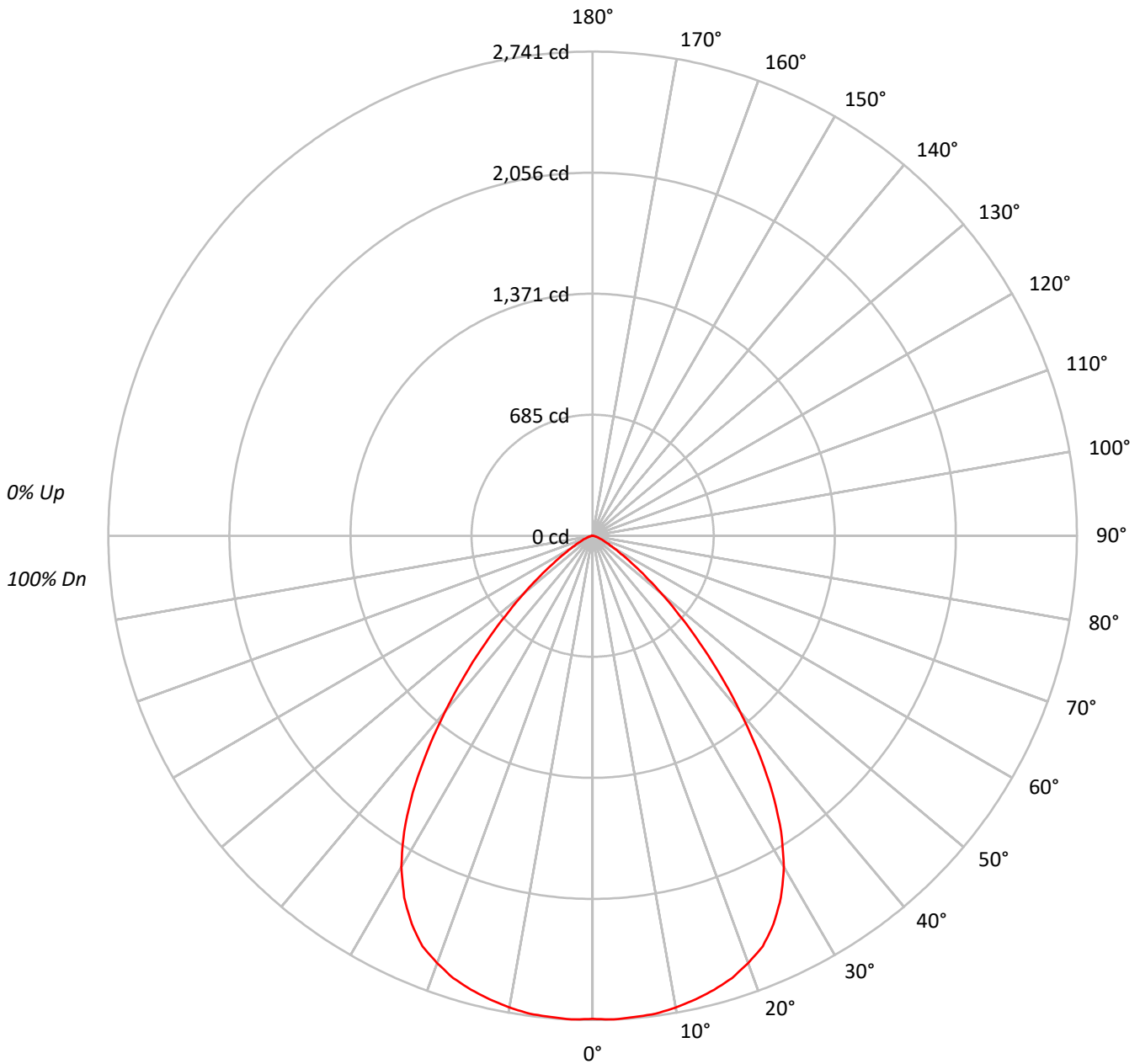
Lumens per Lamp: N/A
Luminaire Lumens: 4242.9 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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°	335992
5°	337275
10°	338293
15°	338305
20°	336454
25°	328569
30°	307096
35°	265938
40°	207748
45°	149052
50°	96824
55°	57959
60°	33932
65°	21773
70°	14476
75°	10965
80°	8136
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	6.1
10°-20°	750.4	17.7
20°-30°	1107.4	26.1
30°-40°	1092.8	25.8
40°-50°	668.7	15.8
50°-60°	256.4	6.0
60°-70°	80.1	1.9
70°-80°	23.5	0.6
80°-90°	3.1	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°	2118.3	49.9
0°-40°	3211.1	75.7
0°-60°	4136.2	97.5
0°-90°	4242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2735	
5°	2735	260
15°	2660	750
25°	2424	1107
35°	1773	1093
45°	858	669
55°	271	256
65°	75	80
75°	23	23
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2734.9
2.5°	2740.6
5°	2734.9
7.5°	2729.1
10°	2711.8
12.5°	2688.8
15°	2659.9
17.5°	2625.4
20°	2573.5
22.5°	2516.1
25°	2423.9
27.5°	2308.7
30°	2164.8
32.5°	1986.4
35°	1773.2
37.5°	1537.2
40°	1295.4
42.5°	1070.9
45°	857.9
47.5°	667.7
50°	506.6
52.5°	374.3
55°	270.6
57.5°	189.9
60°	138.1
62.5°	103.7
65°	74.9
67.5°	57.6
70°	40.3
72.5°	28.8
75°	23.1
77.5°	11.5
80°	11.5
82.5°	5.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)