

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: P572556

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-27 F4X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P572556  
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-20-D010 FEU4C-X-90-27 F4X-N-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1197.0 lumens  
Efficiency: N/A  
Efficacy: 54.9 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): 21.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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**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°	184636
5°	180520
10°	166914
15°	149776
20°	131836
25°	113459
30°	91371
35°	60830
40°	31642
45°	14316
50°	6212
55°	4177
60°	2678
65°	1890
70°	1545
75°	1044
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	11.3
10°-20°	328.9	27.5
20°-30°	381.9	31.9
30°-40°	252.9	21.1
40°-50°	70.9	5.9
50°-60°	17.8	1.5
60°-70°	6.7	0.6
70°-80°	2.3	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°	846.4	70.7
0°-40°	1099.2	91.8
0°-60°	1188.0	99.2
0°-90°	1197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1503	
5°	1464	136
15°	1178	329
25°	837	382
35°	406	253
45°	82	71
55°	20	18
65°	6	7
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1502.9
2.5°	1496.4
5°	1463.8
7.5°	1407.4
10°	1338.0
12.5°	1259.9
15°	1177.6
17.5°	1097.3
20°	1008.4
22.5°	926.0
25°	837.0
27.5°	752.5
30°	644.1
32.5°	529.1
35°	405.6
37.5°	290.6
40°	197.3
42.5°	127.9
45°	82.4
47.5°	49.9
50°	32.5
52.5°	23.8
55°	19.5
57.5°	15.2
60°	10.9
62.5°	8.7
65°	6.5
67.5°	4.3
70°	4.3
72.5°	2.2
75°	2.2
77.5°	2.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)