

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: P646517

Luminaire Tested: **FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P646517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W  
Description: 4 INCH 800 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

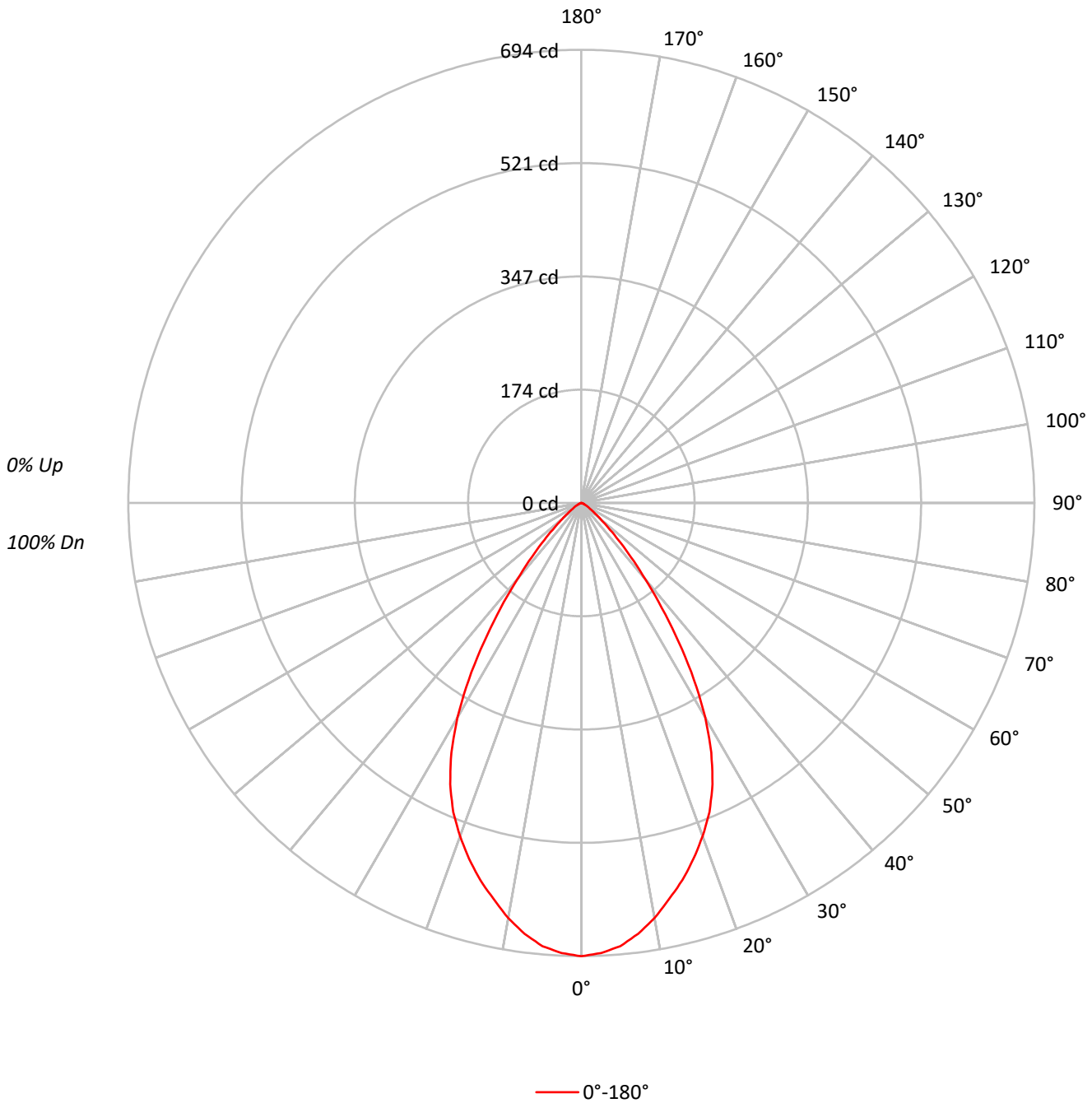
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.9  
Input Voltage (V):  
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



TEST NUMBER: P646517  
CATALOG NUMBER: FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W

### Luminous Intensity Polar Plot





TEST NUMBER: P646517

CATALOG NUMBER: FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56	52	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	66973
5°	65999
10°	63244
15°	59736
20°	55756
25°	50613
30°	42260
35°	30614
40°	19158
45°	10957
50°	5704
55°	3196
60°	2046
65°	1210
70°	903
75°	410
80°	611
85°	0



TEST NUMBER: P646517  
 CATALOG NUMBER: FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	9.1
10°-20°	167.6	23.9
20°-30°	215.3	30.8
30°-40°	162.0	23.1
40°-50°	65.1	9.3
50°-60°	18.5	2.6
60°-70°	5.9	0.8
70°-80°	1.7	0.2
80°-90°	0.1	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°	446.8	63.8
0°-40°	608.8	87.0
0°-60°	692.3	98.9
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	694	
5°	681	64
15°	598	168
25°	475	215
35°	260	162
45°	80	65
55°	19	18
65°	5	6
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P646517  
CATALOG NUMBER: FLDSQ4C08D010 FEU4C089030 F4LC-SQ-H-D2W

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	694.1
2.5°	689.9
5°	681.4
7.5°	665.6
10°	645.5
12.5°	621.2
15°	598.0
17.5°	571.5
20°	543.0
22.5°	512.4
25°	475.4
27.5°	431.0
30°	379.3
32.5°	321.2
35°	259.9
37.5°	202.8
40°	152.1
42.5°	112.0
45°	80.3
47.5°	55.0
50°	38.0
52.5°	26.4
55°	19.0
57.5°	13.7
60°	10.6
62.5°	7.4
65°	5.3
67.5°	4.2
70°	3.2
72.5°	2.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)