

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: P645950

Luminaire Tested: **FLDSQ4C30D010 FEU4C309030 F4LC-SQ-H-D2W**

Issue Date: 12/13/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P645950  
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: FLDSQ4C30D010 FEU4C309030 F4LC-SQ-H-D2W  
Description: 4 INCH 3000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQ TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

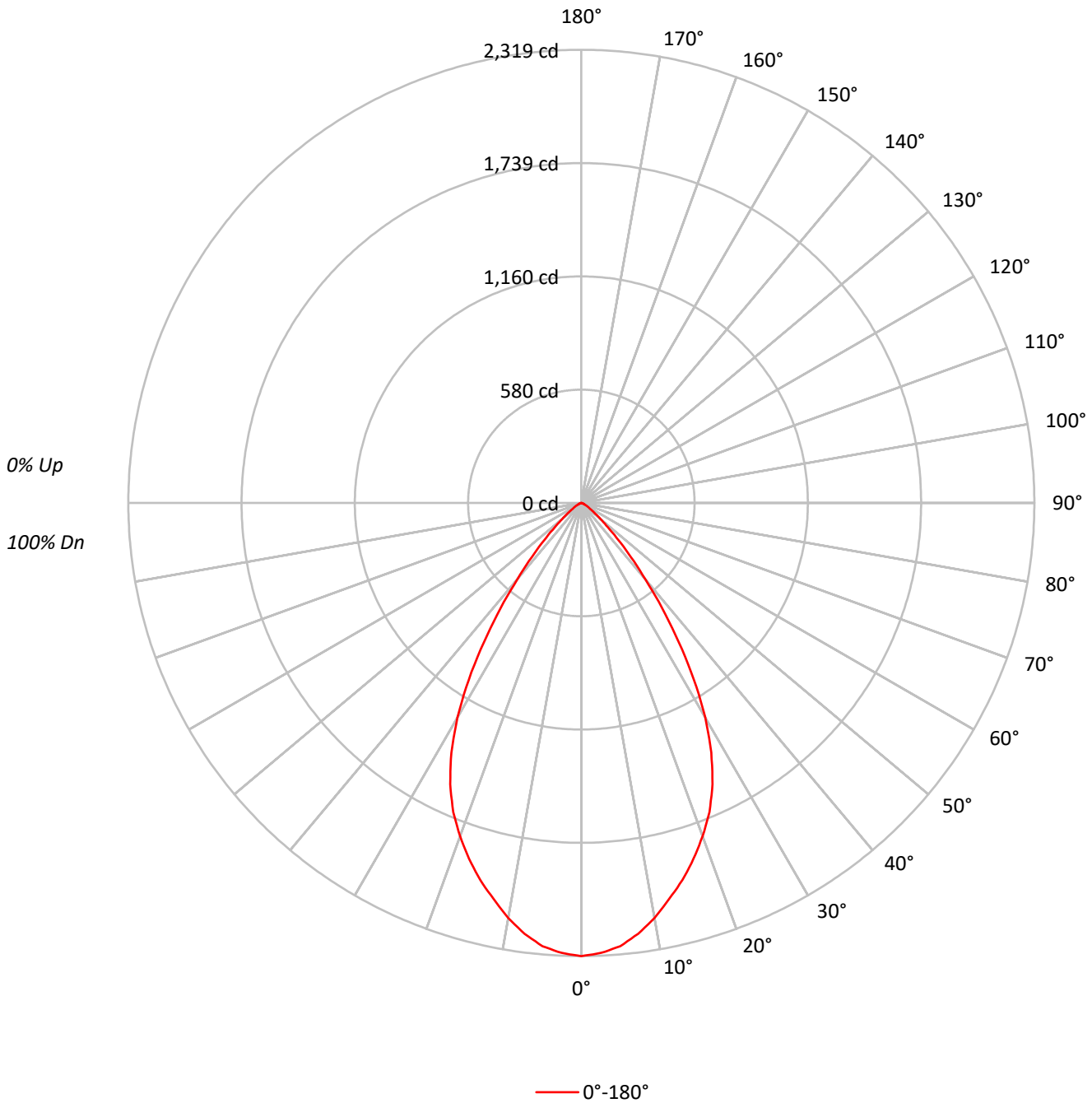
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2339.0 lumens  
Efficiency: N/A  
Efficacy: 74.0 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): 31.6  
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



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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					70						30						10
RW	70	50	30	10		70	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	100
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97	93
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89	85
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82	79
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75	73
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69	67
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64	62
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59	58
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55	54
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52	50
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48	47

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

	0°
0°	223787
5°	220535
10°	211318
15°	199596
20°	186305
25°	169128
30°	141197
35°	102290
40°	64037
45°	36597
50°	19079
55°	10699
60°	6812
65°	4041
70°	2990
75°	1305
80°	1945
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	9.1
10°-20°	559.9	23.9
20°-30°	719.5	30.8
30°-40°	541.3	23.1
40°-50°	217.4	9.3
50°-60°	61.8	2.6
60°-70°	19.6	0.8
70°-80°	5.6	0.2
80°-90°	0.5	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°	1492.8	63.8
0°-40°	2034.1	87.0
0°-60°	2313.4	98.9
0°-90°	2339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2319	
5°	2277	213
15°	1998	560
25°	1589	720
35°	868	541
45°	268	217
55°	64	62
65°	18	20
75°	4	6
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2319.3
2.5°	2305.1
5°	2276.9
7.5°	2223.9
10°	2156.8
12.5°	2075.7
15°	1998.1
17.5°	1909.8
20°	1814.4
22.5°	1712.2
25°	1588.6
27.5°	1440.2
30°	1267.3
32.5°	1073.1
35°	868.4
37.5°	677.7
40°	508.4
42.5°	374.2
45°	268.2
47.5°	183.6
50°	127.1
52.5°	88.3
55°	63.6
57.5°	45.9
60°	35.3
62.5°	24.7
65°	17.7
67.5°	14.1
70°	10.6
72.5°	7.1
75°	3.5
77.5°	3.5
80°	3.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)