

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: P554168

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-88-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P554168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FUSL-12-2-LD4-1LO-35-UNV-80-88-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

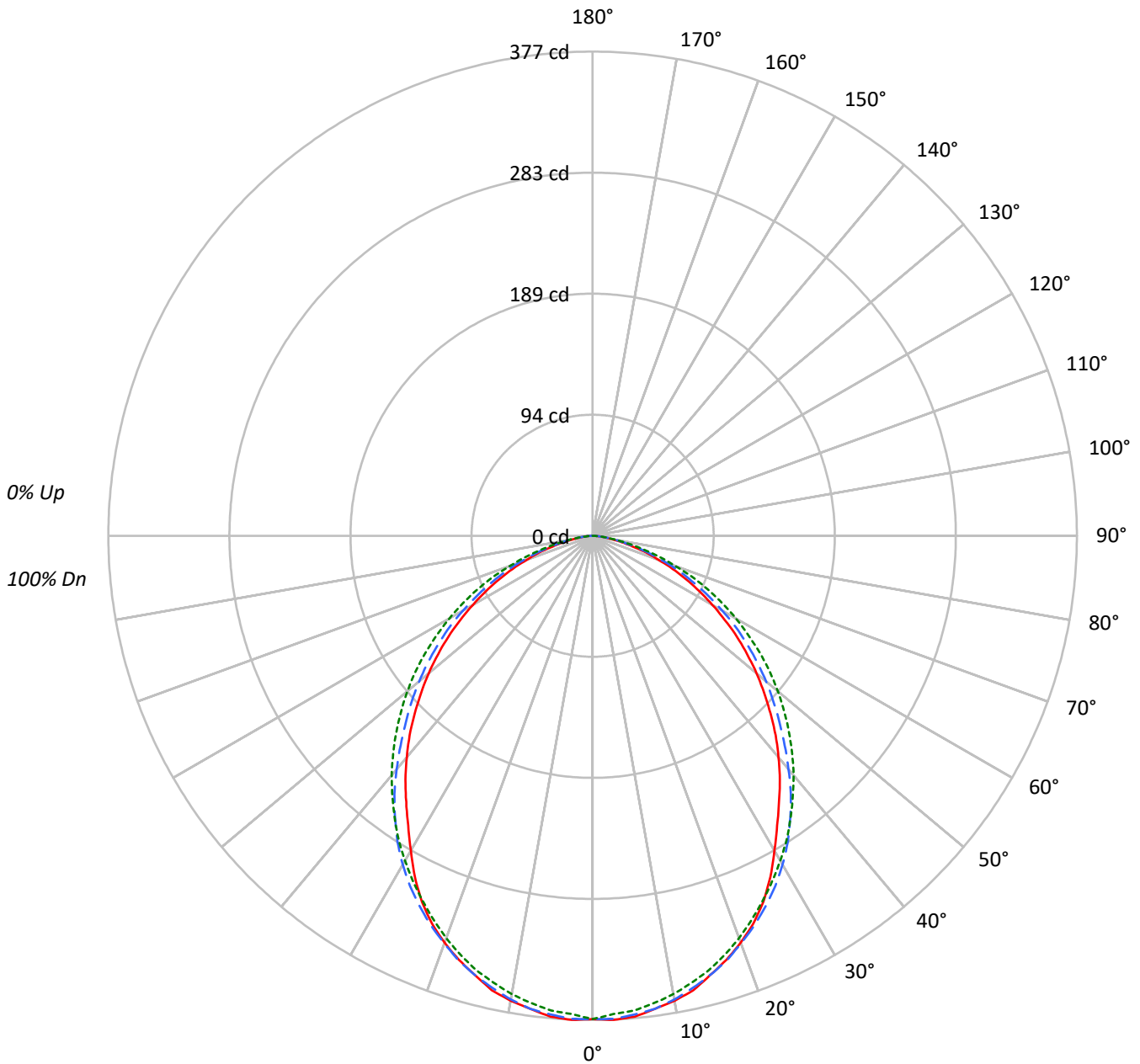
Lumens per Lamp: N/A  
Luminaire Lumens: 870.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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									
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

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

	0°	45°	90°
0°	2025	2025	2025
5°	2030	2022	2004
10°	2009	2003	1981
15°	1973	1973	1951
20°	1931	1934	1909
25°	1868	1891	1861
30°	1759	1838	1815
35°	1662	1761	1765
40°	1581	1666	1710
45°	1491	1566	1646
50°	1396	1475	1576
55°	1287	1373	1491
60°	1159	1253	1386
65°	1024	1114	1261
70°	853	949	1072
75°	670	757	838
80°	480	533	592
85°	315	315	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	4.1
10°-20°	99.5	11.4
20°-30°	145.4	16.7
30°-40°	165.1	19.0
40°-50°	159.4	18.3
50°-60°	131.5	15.1
60°-70°	87.6	10.1
70°-80°	39.2	4.5
80°-90°	7.0	0.8
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°	280.4	32.2
0°-40°	445.5	51.2
0°-60°	736.3	84.6
0°-90°	870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	376	376	374	372	371	36
15°	354	355	354	352	350	100
25°	314	317	318	316	313	144
35°	253	256	268	270	269	159
45°	196	199	206	215	216	151
55°	137	140	146	154	159	122
65°	80	82	88	94	99	80
75°	32	34	36	38	40	35
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	376.3	376.3	376.3	376.3	376.3
2.5°	377.3	377.4	376.5	374.2	372.8
5°	375.8	375.7	374.2	372.2	371.0
7.5°	371.6	371.9	371.5	368.6	367.0
10°	367.6	367.7	366.6	364.3	362.4
12.5°	362.4	362.2	360.6	359.5	356.4
15°	354.1	355.0	354.1	352.5	350.1
17.5°	346.2	346.2	346.8	344.0	342.1
20°	337.2	337.7	337.7	335.5	333.3
22.5°	326.8	328.1	328.6	326.2	323.6
25°	314.5	317.0	318.4	316.1	313.4
27.5°	299.6	303.4	307.7	306.0	303.0
30°	283.0	288.5	295.7	294.3	292.1
32.5°	267.3	272.8	282.7	282.2	281.0
35°	253.0	256.4	268.1	269.6	268.6
37.5°	239.4	242.5	253.5	256.9	256.0
40°	225.1	228.5	237.2	243.1	243.4
42.5°	210.9	214.2	221.3	229.8	229.8
45°	195.9	199.2	205.7	215.1	216.2
47.5°	181.1	184.6	190.9	200.3	202.2
50°	166.7	169.8	176.2	185.3	188.2
52.5°	151.6	155.1	161.3	169.7	173.9
55°	137.2	139.5	146.3	154.4	158.9
57.5°	122.1	124.3	132.0	138.9	143.5
60°	107.7	110.4	116.4	123.4	128.8
62.5°	93.8	96.7	101.8	108.0	114.0
65°	80.4	82.5	87.5	93.7	99.0
67.5°	67.4	69.2	74.2	78.5	84.1
70°	54.2	56.7	60.3	64.5	68.1
72.5°	43.7	44.7	47.7	50.7	54.5
75°	32.2	34.0	36.4	38.2	40.3
77.5°	23.1	24.1	25.6	27.0	29.1
80°	15.5	15.9	17.2	17.5	19.1
82.5°	9.4	9.7	10.0	10.1	10.7
85°	5.1	5.1	5.1	4.8	4.8
87.5°	2.9	2.9	2.5	2.0	1.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)