

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: P554100

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-86-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: P554100  
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-30-UNV-80-86-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

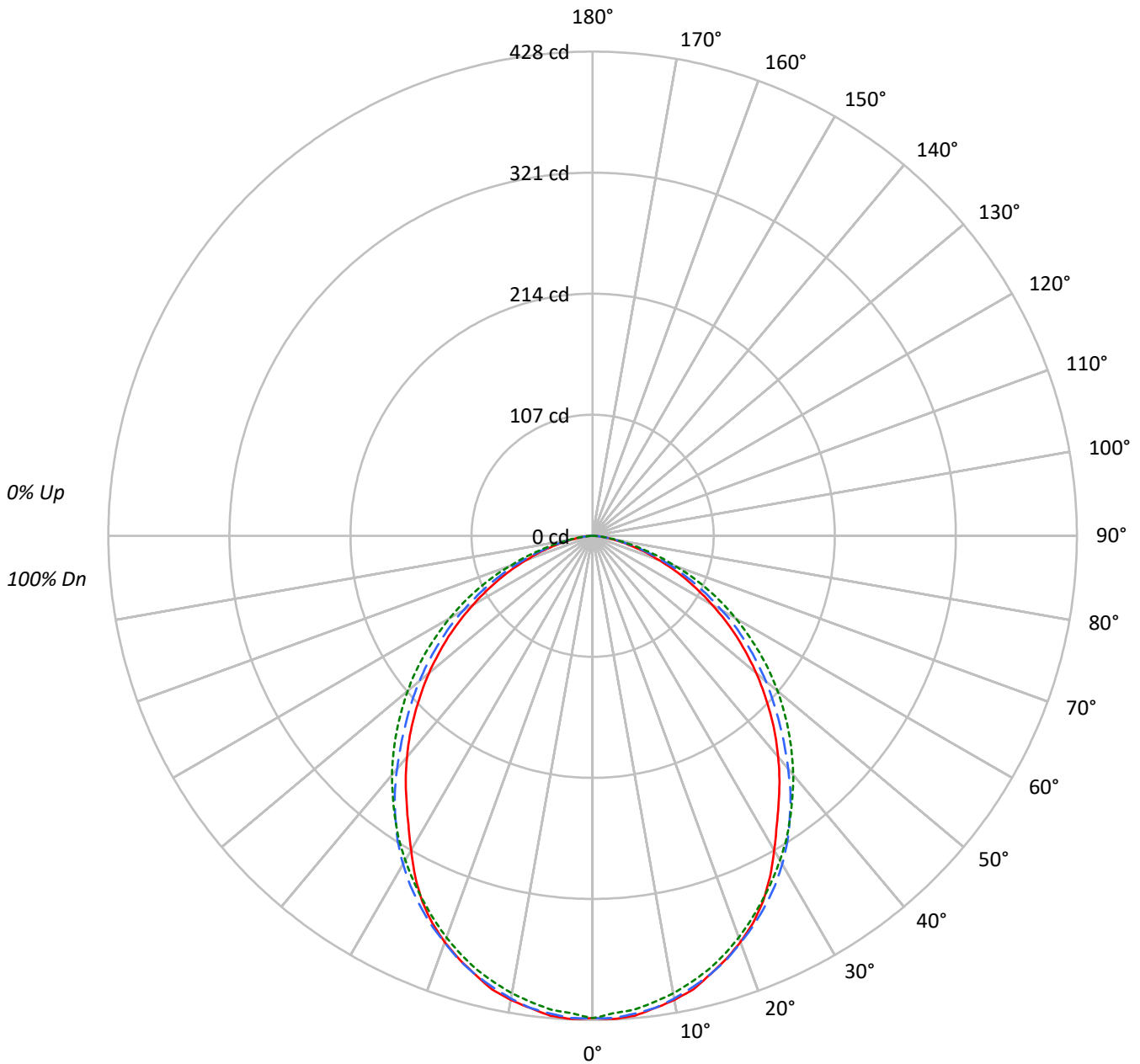
Lumens per Lamp: N/A  
Luminaire Lumens: 986.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2295	2295	2295
5°	2301	2291	2272
10°	2277	2270	2244
15°	2237	2237	2211
20°	2189	2192	2164
25°	2117	2143	2109
30°	1994	2083	2058
35°	1884	1997	2000
40°	1792	1888	1938
45°	1690	1774	1866
50°	1582	1672	1786
55°	1459	1556	1689
60°	1313	1420	1572
65°	1160	1262	1429
70°	966	1075	1215
75°	759	859	950
80°	542	604	669
85°	352	352	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	4.1
10°-20°	112.8	11.4
20°-30°	164.8	16.7
30°-40°	187.1	19.0
40°-50°	180.6	18.3
50°-60°	149.0	15.1
60°-70°	99.2	10.1
70°-80°	44.4	4.5
80°-90°	7.9	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°	317.8	32.2
0°-40°	504.9	51.2
0°-60°	834.5	84.6
0°-90°	986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	426	426	424	422	420	40
15°	401	402	401	400	397	113
25°	356	359	361	358	355	163
35°	287	291	304	306	304	180
45°	222	226	233	244	245	171
55°	156	158	166	175	180	139
65°	91	94	99	106	112	90
75°	36	38	41	43	46	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	426.4	426.4	426.4	426.4	426.4
2.5°	427.6	427.7	426.7	424.1	422.5
5°	425.9	425.8	424.1	421.8	420.5
7.5°	421.2	421.5	421.0	417.7	415.9
10°	416.6	416.8	415.4	412.8	410.7
12.5°	410.7	410.5	408.7	407.4	404.0
15°	401.4	402.3	401.4	399.6	396.8
17.5°	392.3	392.3	393.0	389.9	387.8
20°	382.2	382.7	382.7	380.2	377.8
22.5°	370.4	371.9	372.4	369.7	366.8
25°	356.5	359.3	360.9	358.3	355.2
27.5°	339.6	343.9	348.8	346.8	343.4
30°	320.8	327.0	335.2	333.5	331.1
32.5°	302.9	309.1	320.4	319.8	318.5
35°	286.7	290.6	303.9	305.5	304.4
37.5°	271.3	274.9	287.3	291.1	290.1
40°	255.1	259.0	268.8	275.5	275.9
42.5°	239.0	242.8	250.8	260.5	260.5
45°	222.0	225.7	233.1	243.8	245.1
47.5°	205.3	209.2	216.4	227.1	229.2
50°	188.9	192.5	199.7	210.0	213.3
52.5°	171.8	175.8	182.8	192.3	197.1
55°	155.5	158.1	165.8	175.0	180.0
57.5°	138.4	140.9	149.6	157.4	162.7
60°	122.0	125.2	131.9	139.9	146.0
62.5°	106.3	109.6	115.3	122.4	129.3
65°	91.1	93.5	99.1	106.2	112.2
67.5°	76.3	78.5	84.0	89.0	95.3
70°	61.4	64.2	68.3	73.1	77.2
72.5°	49.5	50.6	54.1	57.5	61.8
75°	36.5	38.5	41.3	43.2	45.7
77.5°	26.2	27.4	29.0	30.6	32.9
80°	17.5	18.0	19.5	19.8	21.6
82.5°	10.6	11.0	11.3	11.5	12.1
85°	5.7	5.7	5.7	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	1.6
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)