

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: P554138

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-94-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: P554138  
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-82-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

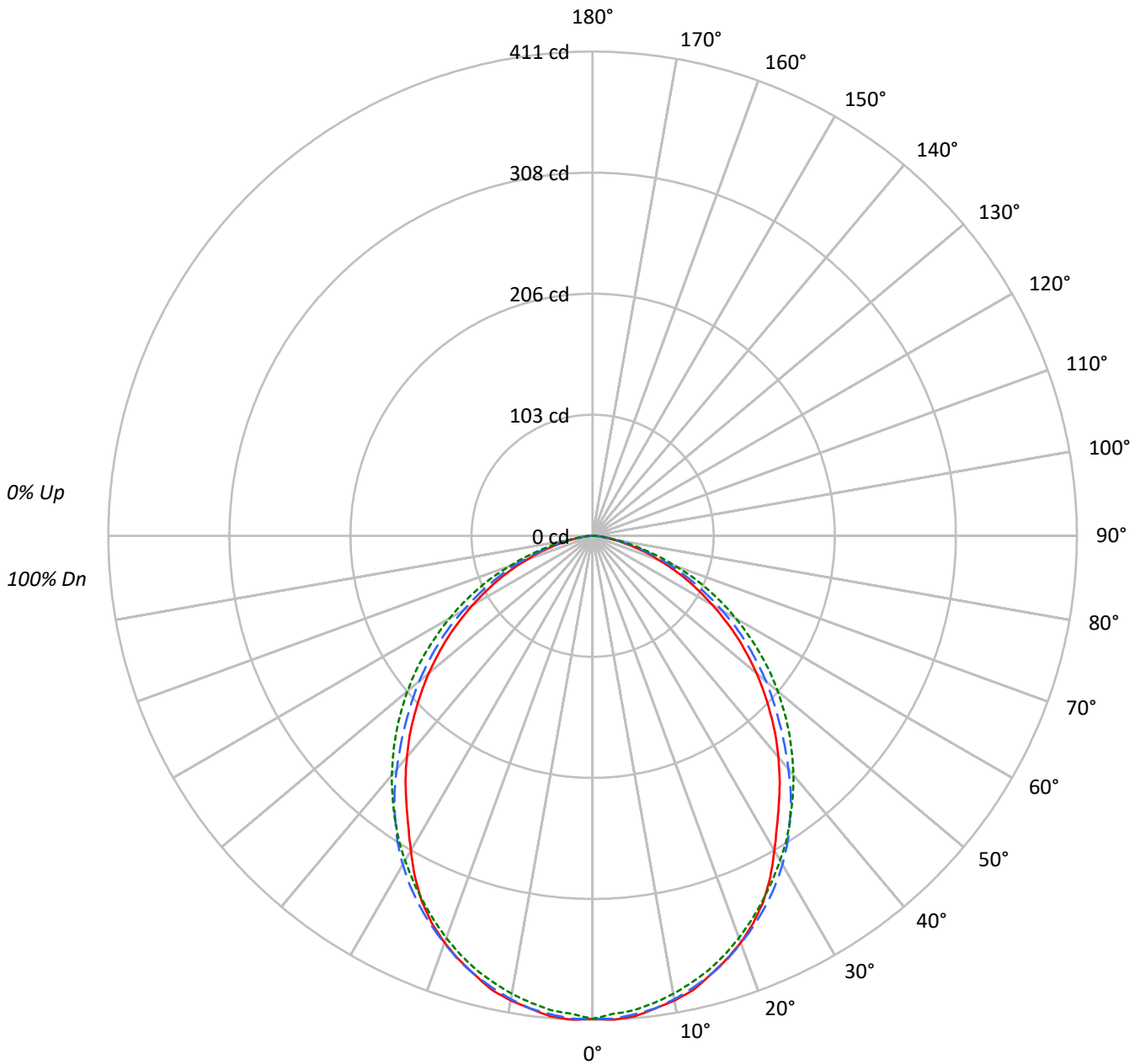
Lumens per Lamp: N/A  
Luminaire Lumens: 948.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2207	2207	2207
5°	2212	2203	2184
10°	2189	2183	2158
15°	2150	2150	2126
20°	2105	2107	2080
25°	2035	2061	2028
30°	1917	2003	1978
35°	1811	1920	1922
40°	1723	1816	1863
45°	1624	1706	1793
50°	1521	1608	1717
55°	1403	1496	1624
60°	1263	1365	1510
65°	1116	1214	1374
70°	930	1034	1168
75°	730	826	913
80°	524	580	645
85°	340	340	321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	4.1
10°-20°	108.4	11.4
20°-30°	158.5	16.7
30°-40°	179.9	19.0
40°-50°	173.6	18.3
50°-60°	143.3	15.1
60°-70°	95.4	10.1
70°-80°	42.7	4.5
80°-90°	7.6	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°	305.5	32.2
0°-40°	485.4	51.2
0°-60°	802.3	84.6
0°-90°	948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	410	409	408	406	404	39
15°	386	387	386	384	382	109
25°	343	345	347	344	342	157
35°	276	279	292	294	293	173
45°	213	217	224	234	236	165
55°	150	152	159	168	173	133
65°	88	90	95	102	108	87
75°	35	37	40	42	44	38
85°	6	6	6	5	5	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	410.0	410.0	410.0	410.0	410.0
2.5°	411.1	411.2	410.3	407.8	406.2
5°	409.5	409.4	407.8	405.6	404.3
7.5°	404.9	405.3	404.8	401.6	399.9
10°	400.5	400.7	399.4	396.9	394.9
12.5°	394.9	394.7	393.0	391.7	388.4
15°	385.9	386.8	385.9	384.2	381.5
17.5°	377.2	377.2	377.9	374.9	372.8
20°	367.5	367.9	367.9	365.6	363.2
22.5°	356.1	357.5	358.0	355.5	352.7
25°	342.7	345.4	347.0	344.5	341.5
27.5°	326.5	330.6	335.3	333.4	330.1
30°	308.4	314.4	322.3	320.7	318.3
32.5°	291.2	297.2	308.1	307.4	306.2
35°	275.6	279.4	292.2	293.7	292.6
37.5°	260.8	264.3	276.3	279.9	278.9
40°	245.2	249.0	258.5	264.9	265.2
42.5°	229.8	233.4	241.1	250.4	250.4
45°	213.4	217.0	224.1	234.4	235.6
47.5°	197.4	201.1	208.1	218.3	220.3
50°	181.6	185.1	192.0	201.9	205.1
52.5°	165.2	169.0	175.8	184.9	189.5
55°	149.5	152.0	159.4	168.2	173.1
57.5°	133.1	135.5	143.8	151.4	156.4
60°	117.3	120.3	126.8	134.5	140.3
62.5°	102.2	105.4	110.9	117.7	124.3
65°	87.6	89.9	95.3	102.1	107.9
67.5°	73.4	75.4	80.8	85.5	91.7
70°	59.1	61.7	65.7	70.2	74.2
72.5°	47.6	48.7	52.0	55.3	59.4
75°	35.1	37.0	39.7	41.6	43.9
77.5°	25.2	26.3	27.9	29.5	31.7
80°	16.9	17.3	18.7	19.1	20.8
82.5°	10.2	10.6	10.9	11.0	11.7
85°	5.5	5.5	5.5	5.2	5.2
87.5°	3.2	3.2	2.7	2.2	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)