

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: P555656

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-88-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: P555656  
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-LD4-3LO-30-UNV-81-88-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

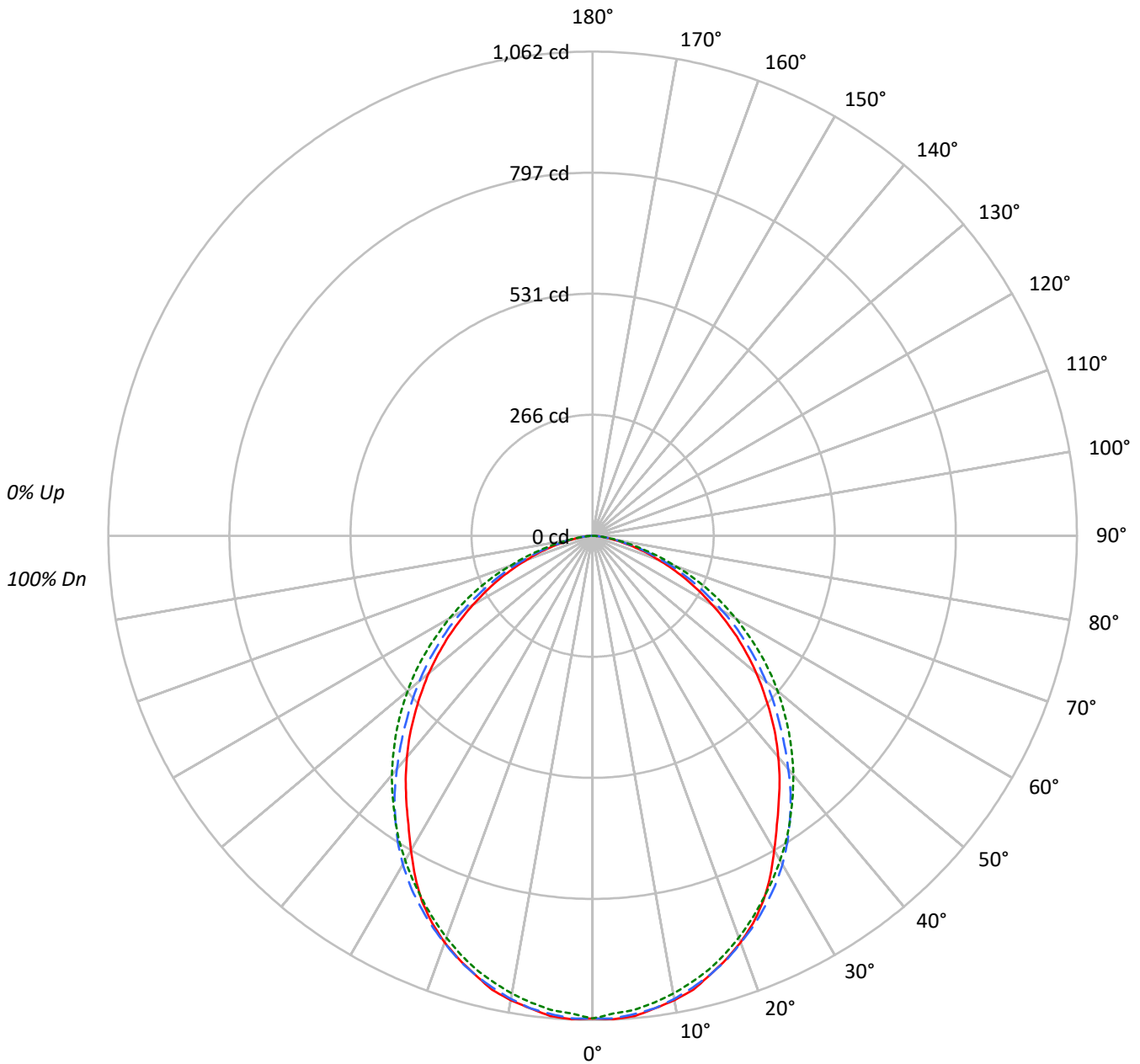
Lumens per Lamp: N/A  
Luminaire Lumens: 2448.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

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

	0°	45°	90°
0°	5698	5698	5698
5°	5713	5689	5641
10°	5652	5637	5573
15°	5552	5552	5489
20°	5435	5442	5372
25°	5255	5321	5236
30°	4949	5172	5108
35°	4677	4957	4965
40°	4449	4689	4812
45°	4195	4405	4631
50°	3927	4151	4434
55°	3622	3862	4194
60°	3261	3524	3901
65°	2879	3134	3548
70°	2400	2669	3015
75°	1886	2131	2360
80°	1348	1500	1664
85°	877	877	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	4.1
10°-20°	280.0	11.4
20°-30°	409.2	16.7
30°-40°	464.5	19.0
40°-50°	448.4	18.3
50°-60°	369.9	15.1
60°-70°	246.3	10.1
70°-80°	110.2	4.5
80°-90°	19.7	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°	788.9	32.2
0°-40°	1253.4	51.2
0°-60°	2071.7	84.6
0°-90°	2448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1058	1057	1053	1047	1044	100
15°	996	999	996	992	985	281
25°	885	892	896	890	882	405
35°	712	722	754	758	756	446
45°	551	560	579	605	608	425
55°	386	392	412	434	447	345
65°	226	232	246	264	279	224
75°	91	96	102	107	114	99
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1061.5	1062.0	1059.5	1053.0	1048.9
5°	1057.5	1057.1	1053.0	1047.3	1044.1
7.5°	1045.7	1046.5	1045.3	1037.1	1032.7
10°	1034.3	1034.7	1031.4	1024.9	1019.7
12.5°	1019.7	1019.2	1014.8	1011.5	1003.0
15°	996.5	998.9	996.5	992.0	985.1
17.5°	974.1	974.1	975.7	968.0	962.7
20°	948.9	950.1	950.1	944.0	937.9
22.5°	919.6	923.3	924.5	918.0	910.7
25°	885.0	891.9	896.0	889.5	881.8
27.5°	843.1	853.7	865.9	861.0	852.5
30°	796.4	811.8	832.2	828.1	822.0
32.5°	752.0	767.5	795.5	793.9	790.7
35°	711.8	721.5	754.5	758.5	755.7
37.5°	673.5	682.5	713.4	722.7	720.3
40°	633.3	643.0	667.4	684.1	684.9
42.5°	593.4	602.8	622.7	646.7	646.7
45°	551.1	560.5	578.8	605.2	608.5
47.5°	509.6	519.4	537.3	563.7	569.0
50°	469.0	477.9	495.8	521.4	529.6
52.5°	426.7	436.4	453.9	477.5	489.3
55°	386.0	392.5	411.6	434.4	447.0
57.5°	343.7	349.8	371.3	390.9	403.9
60°	303.0	310.7	327.4	347.3	362.4
62.5°	264.0	272.1	286.3	303.8	320.9
65°	226.1	232.2	246.1	263.6	278.6
67.5°	189.5	194.8	208.6	220.8	236.7
70°	152.5	159.4	169.6	181.4	191.6
72.5°	122.8	125.7	134.2	142.8	153.3
75°	90.7	95.6	102.5	107.4	113.5
77.5°	65.1	67.9	72.0	76.1	81.8
80°	43.5	44.7	48.4	49.2	53.7
82.5°	26.4	27.3	28.1	28.5	30.1
85°	14.2	14.2	14.2	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	4.1
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)