

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: P555768

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-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: P555768  
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-40-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 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

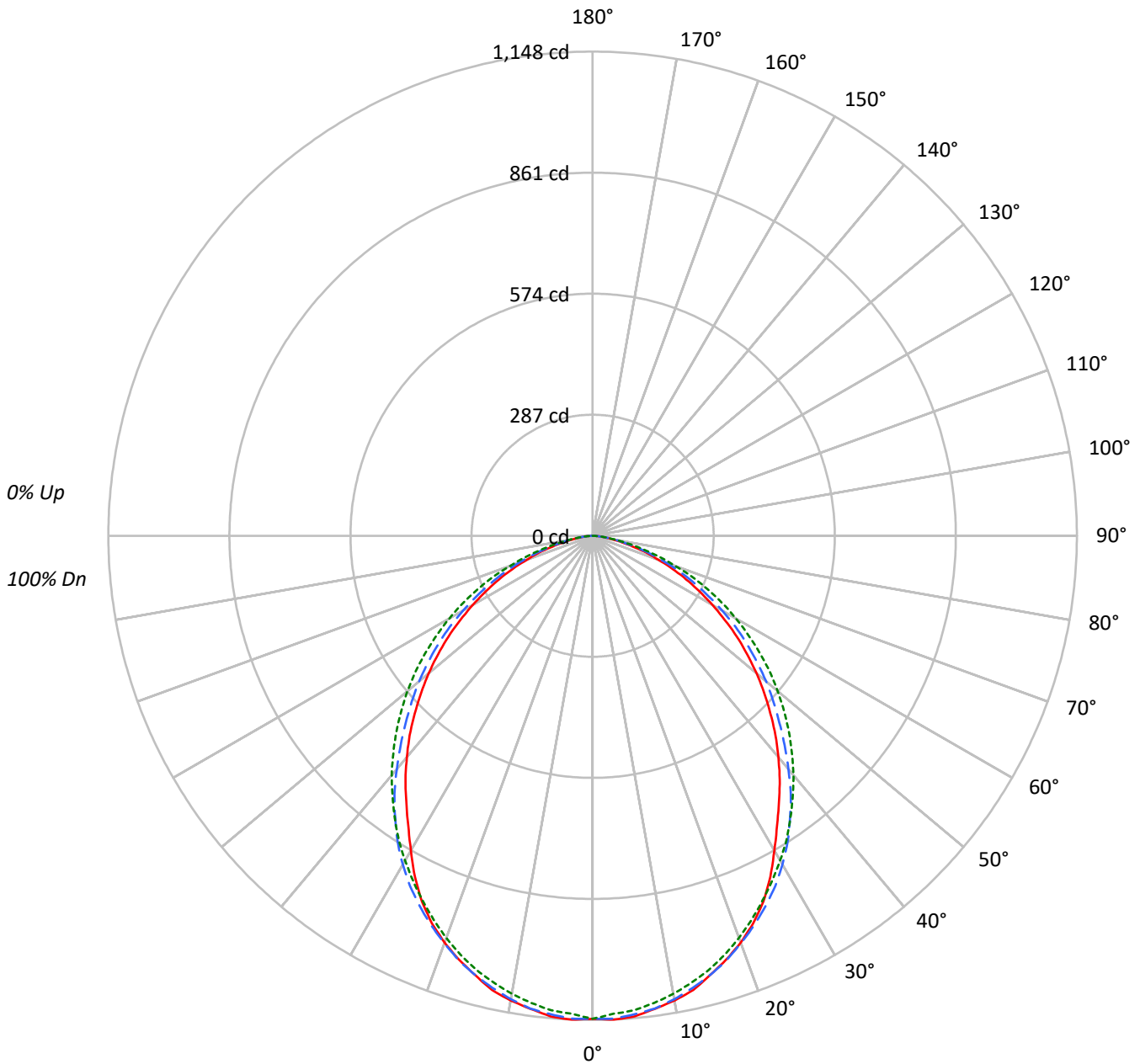
Lumens per Lamp: N/A  
Luminaire Lumens: 2648.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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°	6163	6163	6163
5°	6180	6153	6102
10°	6114	6097	6028
15°	6006	6006	5937
20°	5879	5886	5810
25°	5685	5755	5664
30°	5353	5594	5525
35°	5058	5362	5370
40°	4813	5073	5205
45°	4537	4765	5010
50°	4248	4490	4796
55°	3917	4177	4537
60°	3528	3813	4219
65°	3115	3390	3838
70°	2596	2888	3260
75°	2040	2306	2551
80°	1460	1624	1801
85°	951	951	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	4.1
10°-20°	302.9	11.4
20°-30°	442.6	16.7
30°-40°	502.5	19.0
40°-50°	485.0	18.3
50°-60°	400.1	15.1
60°-70°	266.4	10.1
70°-80°	119.2	4.5
80°-90°	21.3	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°	853.4	32.2
0°-40°	1355.8	51.2
0°-60°	2241.0	84.6
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1144	1143	1139	1133	1129	108
15°	1078	1080	1078	1073	1066	304
25°	957	965	969	962	954	438
35°	770	780	816	820	817	482
45°	596	606	626	655	658	460
55°	418	425	445	470	484	373
65°	245	251	266	285	301	243
75°	98	103	111	116	123	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1145.2	1145.2	1145.2	1145.2	1145.2
2.5°	1148.3	1148.7	1146.1	1139.0	1134.6
5°	1143.9	1143.4	1139.0	1132.9	1129.4
7.5°	1131.1	1132.0	1130.7	1121.9	1117.0
10°	1118.8	1119.2	1115.7	1108.7	1103.0
12.5°	1103.0	1102.5	1097.7	1094.2	1084.9
15°	1077.9	1080.5	1077.9	1073.0	1065.6
17.5°	1053.7	1053.7	1055.4	1047.1	1041.4
20°	1026.4	1027.7	1027.7	1021.1	1014.5
22.5°	994.7	998.7	1000.0	993.0	985.0
25°	957.3	964.8	969.2	962.2	953.8
27.5°	912.0	923.5	936.7	931.4	922.1
30°	861.4	878.1	900.1	895.7	889.1
32.5°	813.5	830.2	860.5	858.8	855.3
35°	769.9	780.5	816.1	820.5	817.4
37.5°	728.6	738.2	771.7	781.8	779.2
40°	685.0	695.6	722.0	740.0	740.9
42.5°	641.9	652.0	673.6	699.5	699.5
45°	596.1	606.3	626.0	654.6	658.2
47.5°	551.3	561.8	581.2	609.8	615.5
50°	507.3	516.9	536.3	564.0	572.8
52.5°	461.5	472.1	491.0	516.5	529.3
55°	417.5	424.6	445.2	469.9	483.5
57.5°	371.8	378.4	401.7	422.8	436.9
60°	327.8	336.1	354.2	375.7	392.0
62.5°	285.5	294.3	309.7	328.6	347.1
65°	244.6	251.2	266.2	285.1	301.4
67.5°	205.0	210.7	225.7	238.9	256.1
70°	165.0	172.5	183.5	196.2	207.2
72.5°	132.9	135.9	145.2	154.4	165.9
75°	98.1	103.4	110.9	116.1	122.7
77.5°	70.4	73.5	77.9	82.3	88.4
80°	47.1	48.4	52.4	53.2	58.1
82.5°	28.6	29.5	30.4	30.8	32.6
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.2	4.4
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)