

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: P555770

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-94-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: P555770  
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-80-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

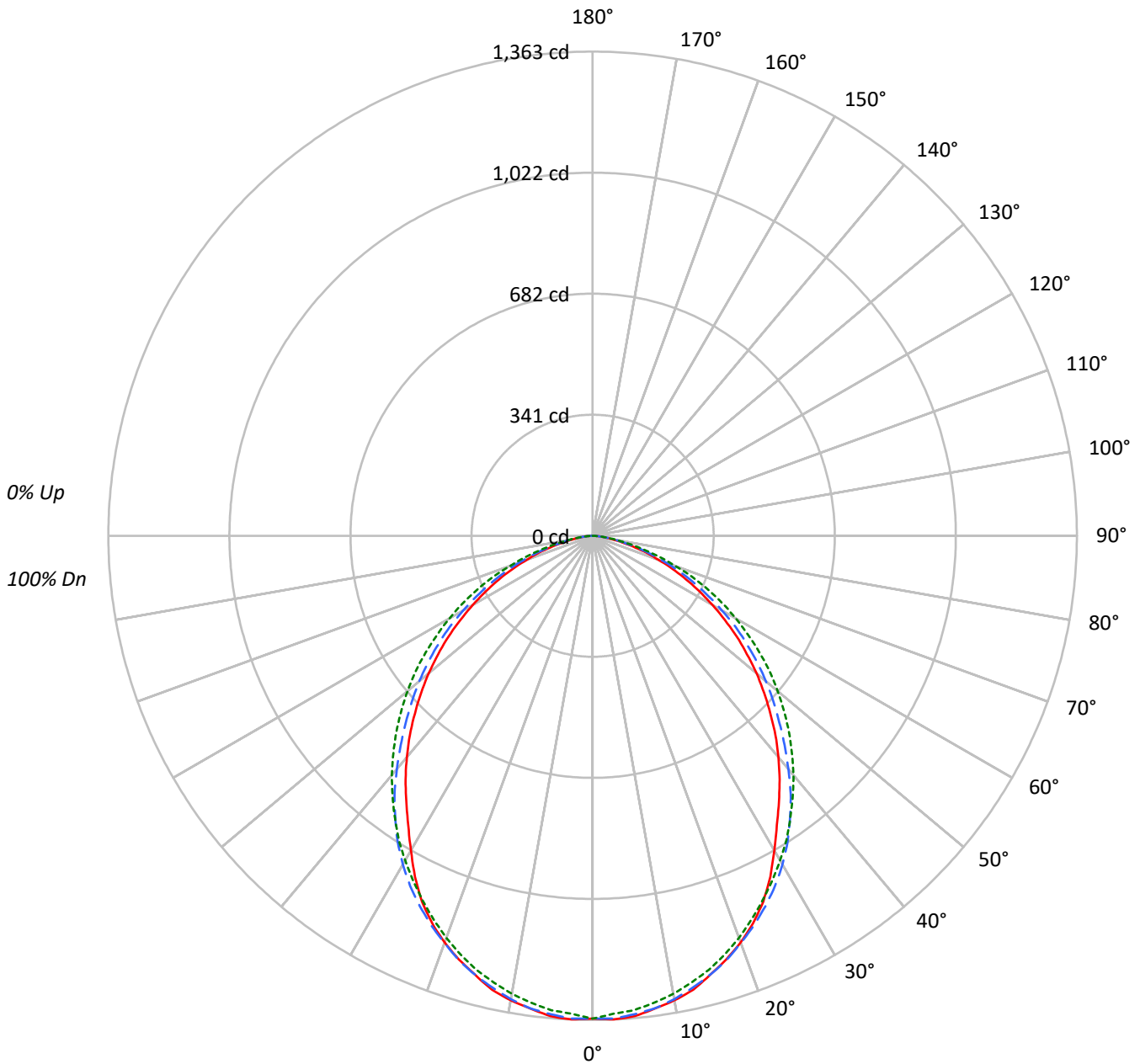
Lumens per Lamp: N/A  
Luminaire Lumens: 3143.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	7316	7316	7316
5°	7335	7304	7242
10°	7257	7237	7154
15°	7129	7129	7047
20°	6978	6986	6897
25°	6748	6831	6723
30°	6354	6640	6559
35°	6004	6365	6374
40°	5713	6020	6178
45°	5386	5656	5946
50°	5041	5330	5693
55°	4650	4959	5385
60°	4187	4525	5008
65°	3697	4023	4555
70°	3081	3427	3871
75°	2420	2737	3030
80°	1733	1925	2135
85°	1130	1130	1062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.0	4.1
10°-20°	359.5	11.4
20°-30°	525.4	16.7
30°-40°	596.4	19.0
40°-50°	575.7	18.3
50°-60°	474.9	15.1
60°-70°	316.3	10.1
70°-80°	141.5	4.5
80°-90°	25.3	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°	1012.9	32.2
0°-40°	1609.3	51.2
0°-60°	2659.9	84.6
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1358	1357	1352	1345	1340	129
15°	1279	1282	1279	1274	1265	361
25°	1136	1145	1150	1142	1132	520
35°	914	926	969	974	970	573
45°	708	720	743	777	781	546
55°	496	504	528	558	574	442
65°	290	298	316	338	358	288
75°	116	123	132	138	146	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1359.3	1359.3	1359.3	1359.3	1359.3
2.5°	1362.9	1363.4	1360.3	1352.0	1346.7
5°	1357.7	1357.2	1352.0	1344.6	1340.5
7.5°	1342.6	1343.6	1342.0	1331.6	1325.8
10°	1327.9	1328.5	1324.3	1315.9	1309.1
12.5°	1309.1	1308.6	1302.9	1298.7	1287.7
15°	1279.4	1282.5	1279.4	1273.6	1264.7
17.5°	1250.7	1250.7	1252.7	1242.8	1236.0
20°	1218.3	1219.8	1219.8	1212.0	1204.2
22.5°	1180.7	1185.4	1186.9	1178.6	1169.2
25°	1136.3	1145.2	1150.4	1142.0	1132.1
27.5°	1082.5	1096.1	1111.7	1105.5	1094.5
30°	1022.5	1042.3	1068.4	1063.2	1055.4
32.5°	965.5	985.4	1021.4	1019.3	1015.1
35°	913.8	926.4	968.7	973.9	970.2
37.5°	864.8	876.2	915.9	927.9	924.8
40°	813.1	825.6	856.9	878.3	879.4
42.5°	761.9	773.9	799.5	830.3	830.3
45°	707.6	719.6	743.1	777.0	781.2
47.5°	654.3	666.8	689.8	723.8	730.5
50°	602.1	613.6	636.6	669.5	679.9
52.5°	547.8	560.3	582.8	613.1	628.2
55°	495.6	503.9	528.5	557.7	573.9
57.5°	441.3	449.1	476.8	501.8	518.5
60°	389.0	399.0	420.4	446.0	465.3
62.5°	338.9	349.3	367.6	390.1	412.0
65°	290.3	298.2	315.9	338.4	357.7
67.5°	243.3	250.1	267.9	283.6	303.9
70°	195.8	204.7	217.8	232.9	246.0
72.5°	157.7	161.4	172.3	183.3	196.9
75°	116.4	122.7	131.6	137.9	145.7
77.5°	83.6	87.2	92.4	97.6	105.0
80°	55.9	57.4	62.1	63.2	68.9
82.5°	33.9	35.0	36.0	36.6	38.6
85°	18.3	18.3	18.3	17.2	17.2
87.5°	10.4	10.4	8.9	7.3	5.2
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)