

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: P555690

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-94-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: P555690  
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-93-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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**

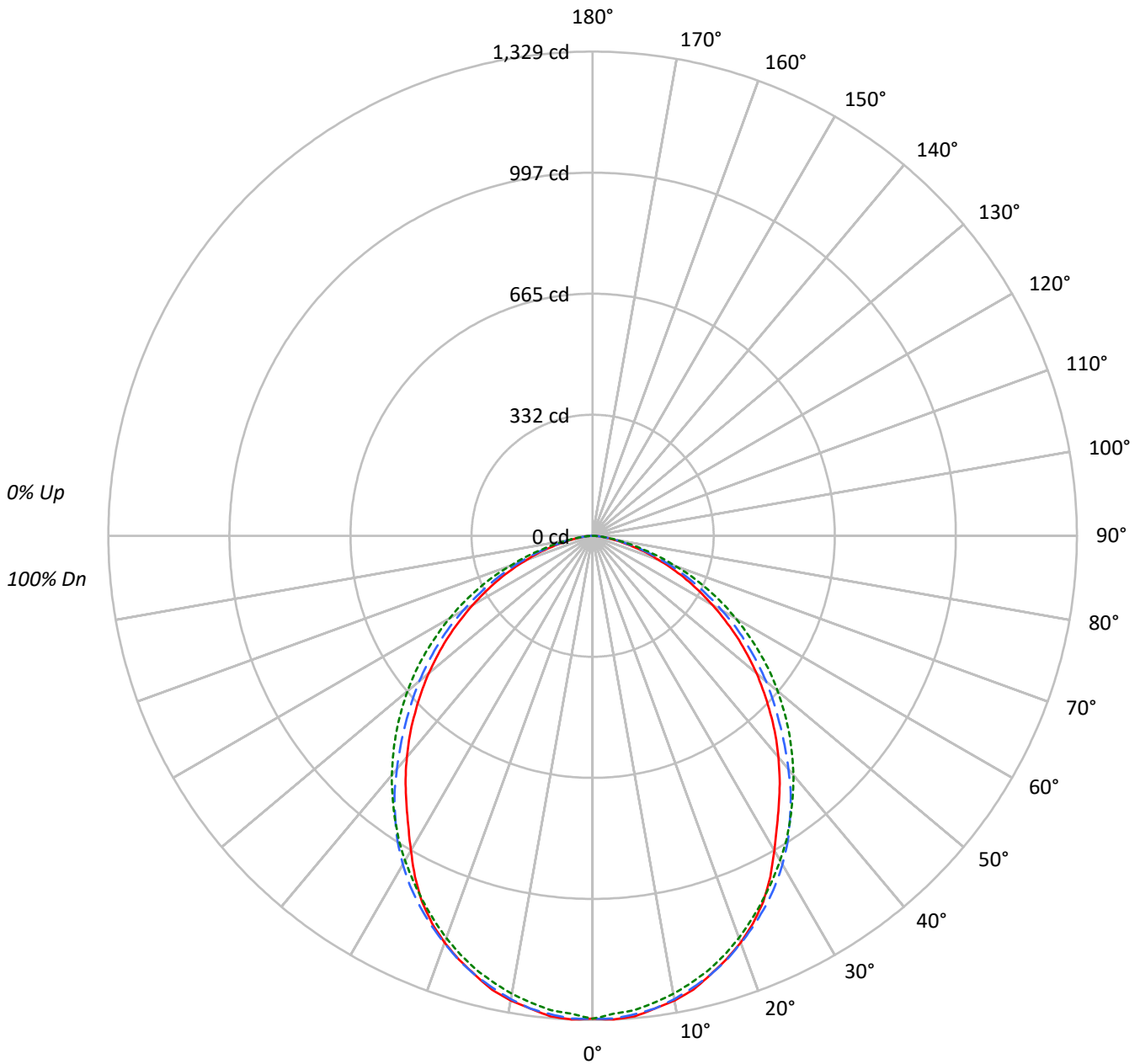
Lumens per Lamp: N/A  
Luminaire Lumens: 3065.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	7134	7134	7134
5°	7153	7123	7062
10°	7077	7057	6977
15°	6951	6951	6872
20°	6804	6813	6726
25°	6580	6662	6556
30°	6197	6475	6396
35°	5855	6206	6217
40°	5571	5871	6024
45°	5252	5515	5798
50°	4916	5198	5551
55°	4535	4835	5251
60°	4084	4412	4884
65°	3605	3924	4442
70°	3006	3342	3773
75°	2362	2668	2955
80°	1689	1878	2083
85°	1099	1099	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	4.1
10°-20°	350.6	11.4
20°-30°	512.4	16.7
30°-40°	581.6	19.0
40°-50°	561.4	18.3
50°-60°	463.1	15.1
60°-70°	308.4	10.1
70°-80°	138.0	4.5
80°-90°	24.7	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°	987.8	32.2
0°-40°	1569.3	51.2
0°-60°	2593.9	84.6
0°-90°	3065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1324	1324	1318	1311	1307	125
15°	1248	1251	1248	1242	1233	352
25°	1108	1117	1122	1114	1104	507
35°	891	903	945	950	946	558
45°	690	702	725	758	762	532
55°	483	491	515	544	560	431
65°	283	291	308	330	349	281
75°	114	120	128	134	142	124
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.1	1329.6	1326.6	1318.4	1313.3
5°	1324.0	1323.5	1318.4	1311.3	1307.2
7.5°	1309.2	1310.3	1308.7	1298.5	1292.9
10°	1295.0	1295.5	1291.4	1283.3	1276.6
12.5°	1276.6	1276.1	1270.5	1266.5	1255.8
15°	1247.6	1250.7	1247.6	1242.0	1233.4
17.5°	1219.6	1219.6	1221.6	1212.0	1205.4
20°	1188.0	1189.6	1189.6	1181.9	1174.3
22.5°	1151.4	1156.0	1157.5	1149.3	1140.2
25°	1108.1	1116.7	1121.8	1113.7	1104.0
27.5°	1055.6	1068.9	1084.2	1078.0	1067.4
30°	997.1	1016.4	1041.9	1036.8	1029.2
32.5°	941.6	960.9	996.1	994.0	989.9
35°	891.2	903.4	944.6	949.7	946.2
37.5°	843.3	854.5	893.2	904.9	901.9
40°	792.9	805.1	835.7	856.5	857.5
42.5°	743.0	754.7	779.6	809.7	809.7
45°	690.0	701.7	724.6	757.7	761.8
47.5°	638.1	650.3	672.7	705.8	712.4
50°	587.1	598.3	620.8	652.8	663.0
52.5°	534.2	546.4	568.3	597.8	612.6
55°	483.3	491.4	515.3	543.9	559.6
57.5°	430.3	437.9	464.9	489.4	505.7
60°	379.4	389.1	409.9	434.9	453.7
62.5°	330.5	340.7	358.5	380.4	401.8
65°	283.1	290.8	308.1	330.0	348.8
67.5°	237.3	243.9	261.2	276.5	296.4
70°	191.0	199.6	212.4	227.1	239.8
72.5°	153.8	157.4	168.0	178.7	192.0
75°	113.6	119.7	128.3	134.4	142.1
77.5°	81.5	85.0	90.1	95.2	102.4
80°	54.5	56.0	60.6	61.6	67.2
82.5°	33.1	34.1	35.1	35.6	37.7
85°	17.8	17.8	17.8	16.8	16.8
87.5°	10.2	10.2	8.7	7.1	5.1
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)