

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: P555645

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-96-EDD**

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: P555645  
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-80-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

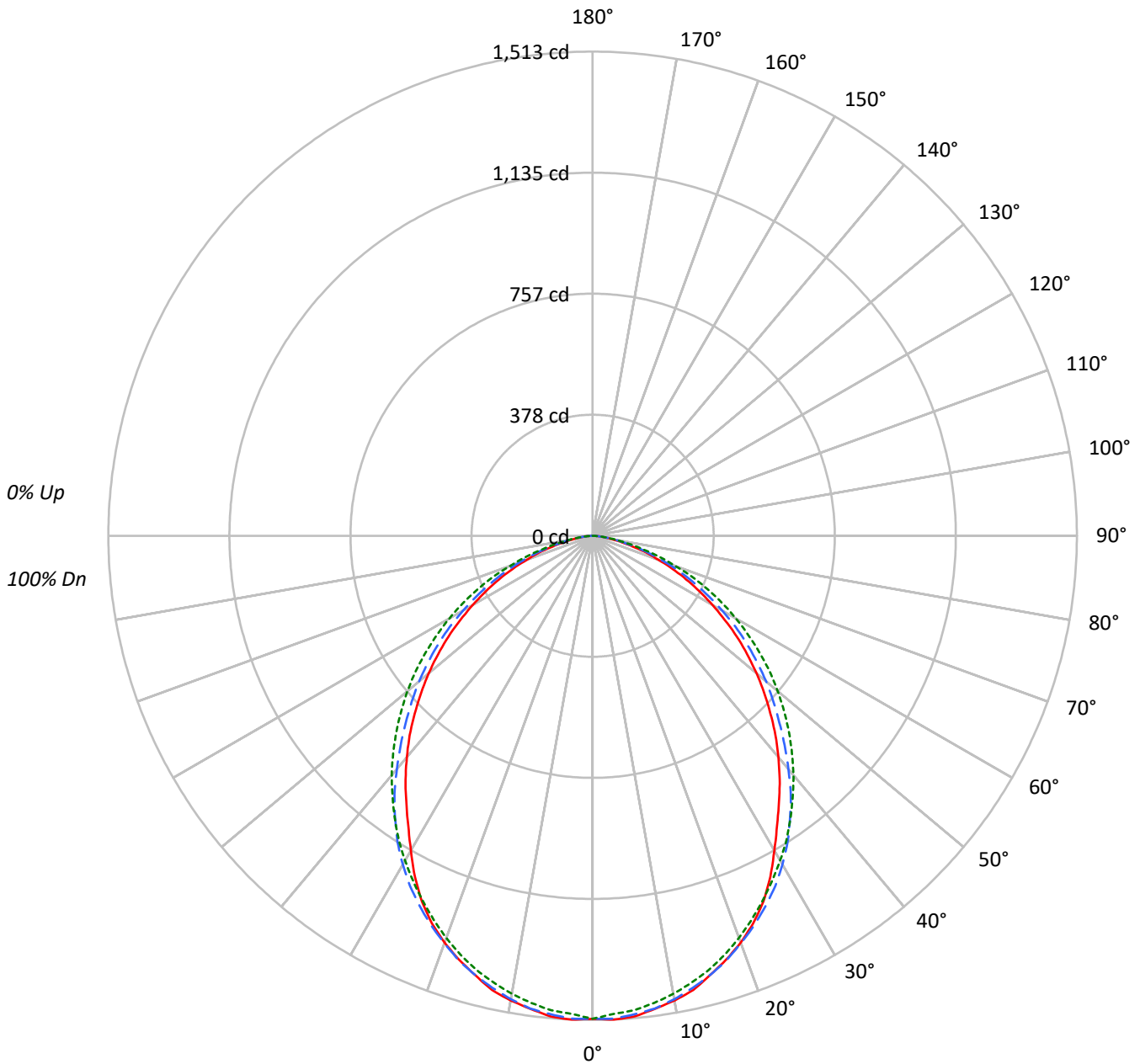
Lumens per Lamp: N/A  
Luminaire Lumens: 3490.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (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°	8123	8123	8123
5°	8145	8110	8042
10°	8058	8036	7944
15°	7915	7915	7825
20°	7748	7758	7658
25°	7492	7586	7465
30°	7055	7373	7283
35°	6667	7067	7079
40°	6343	6685	6861
45°	5980	6280	6602
50°	5598	5918	6321
55°	5164	5506	5979
60°	4650	5025	5561
65°	4106	4467	5058
70°	3421	3805	4297
75°	2689	3038	3365
80°	1922	2139	2371
85°	1254	1254	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	4.1
10°-20°	399.2	11.4
20°-30°	583.4	16.7
30°-40°	662.2	19.0
40°-50°	639.3	18.3
50°-60°	527.4	15.1
60°-70°	351.2	10.1
70°-80°	157.1	4.5
80°-90°	28.1	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°	1124.7	32.2
0°-40°	1786.9	51.2
0°-60°	2953.6	84.6
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1508	1507	1501	1493	1488	143
15°	1421	1424	1421	1414	1404	400
25°	1262	1272	1277	1268	1257	578
35°	1015	1029	1076	1081	1077	636
45°	786	799	825	863	867	606
55°	550	560	587	619	637	491
65°	322	331	351	376	397	320
75°	129	136	146	153	162	141
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1509.3	1509.3	1509.3	1509.3	1509.3
2.5°	1513.4	1514.0	1510.5	1501.2	1495.4
5°	1507.6	1507.0	1501.2	1493.1	1488.5
7.5°	1490.8	1491.9	1490.2	1478.6	1472.2
10°	1474.5	1475.1	1470.5	1461.2	1453.7
12.5°	1453.7	1453.1	1446.7	1442.1	1429.9
15°	1420.6	1424.1	1420.6	1414.2	1404.4
17.5°	1388.7	1388.7	1391.0	1380.0	1372.5
20°	1352.8	1354.5	1354.5	1345.8	1337.1
22.5°	1311.0	1316.2	1318.0	1308.7	1298.3
25°	1261.7	1271.6	1277.4	1268.1	1257.1
27.5°	1202.0	1217.1	1234.5	1227.5	1215.4
30°	1135.3	1157.4	1186.4	1180.6	1171.9
32.5°	1072.1	1094.2	1134.2	1131.9	1127.2
35°	1014.7	1028.6	1075.6	1081.4	1077.4
37.5°	960.2	973.0	1017.0	1030.4	1026.9
40°	902.8	916.7	951.5	975.3	976.5
42.5°	846.0	859.3	887.7	922.0	922.0
45°	785.7	799.0	825.1	862.8	867.4
47.5°	726.5	740.5	766.0	803.7	811.2
50°	668.6	681.3	706.8	743.4	755.0
52.5°	608.3	622.2	647.1	680.7	697.6
55°	550.3	559.5	586.8	619.3	637.2
57.5°	490.0	498.7	529.4	557.2	575.8
60°	432.0	443.0	466.8	495.2	516.6
62.5°	376.3	387.9	408.2	433.1	457.5
65°	322.4	331.1	350.8	375.7	397.2
67.5°	270.2	277.7	297.5	314.9	337.5
70°	217.4	227.3	241.8	258.6	273.1
72.5°	175.1	179.2	191.3	203.5	218.6
75°	129.3	136.3	146.1	153.1	161.8
77.5°	92.8	96.8	102.6	108.4	116.5
80°	62.0	63.8	69.0	70.2	76.5
82.5°	37.7	38.8	40.0	40.6	42.9
85°	20.3	20.3	20.3	19.1	19.1
87.5°	11.6	11.6	9.9	8.1	5.8
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)