

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: P554714

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-94-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: P554714  
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-LD4-2HI-35-UNV-82-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

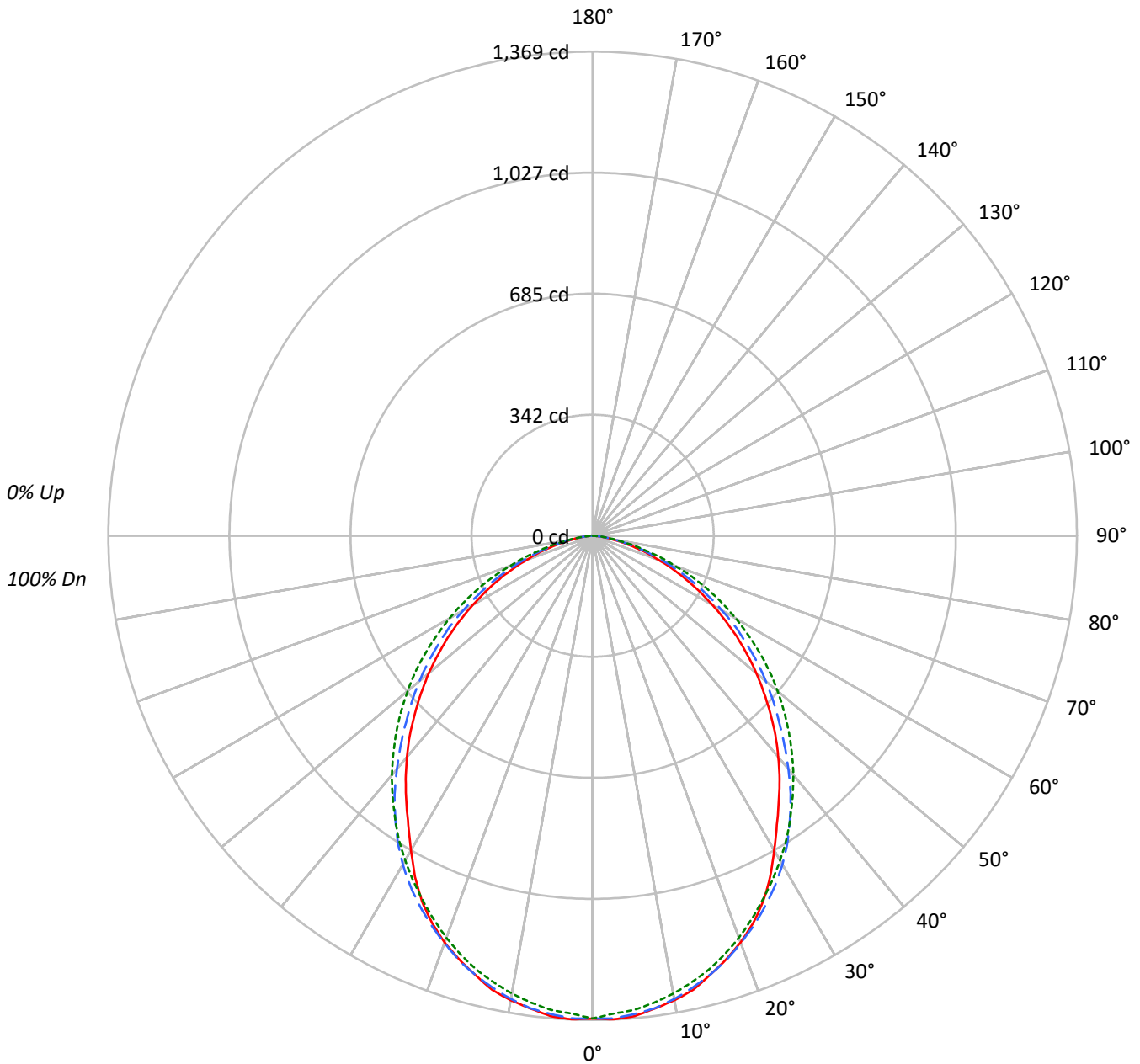
Lumens per Lamp: N/A  
Luminaire Lumens: 3156.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	7346	7346	7346
5°	7365	7334	7272
10°	7287	7267	7184
15°	7158	7158	7076
20°	7006	7015	6926
25°	6776	6859	6751
30°	6380	6667	6586
35°	6029	6391	6401
40°	5736	6046	6204
45°	5408	5680	5970
50°	5062	5352	5716
55°	4669	4979	5408
60°	4204	4543	5029
65°	3712	4039	4574
70°	3094	3441	3887
75°	2431	2747	3042
80°	1739	1934	2145
85°	1136	1136	1068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	4.1
10°-20°	361.0	11.4
20°-30°	527.6	16.7
30°-40°	598.8	19.0
40°-50°	578.1	18.3
50°-60°	476.9	15.1
60°-70°	317.6	10.1
70°-80°	142.1	4.5
80°-90°	25.4	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°	1017.1	32.2
0°-40°	1615.9	51.2
0°-60°	2670.9	84.6
0°-90°	3156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1363	1363	1358	1350	1346	129
15°	1285	1288	1285	1279	1270	362
25°	1141	1150	1155	1147	1137	523
35°	918	930	973	978	974	575
45°	710	723	746	780	784	548
55°	498	506	531	560	576	444
65°	292	299	317	340	359	289
75°	117	123	132	138	146	128
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°	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1368.6	1369.1	1365.9	1357.5	1352.3
5°	1363.3	1362.8	1357.5	1350.2	1346.0
7.5°	1348.1	1349.2	1347.6	1337.1	1331.3
10°	1333.4	1334.0	1329.8	1321.4	1314.6
12.5°	1314.6	1314.0	1308.3	1304.1	1293.1
15°	1284.7	1287.8	1284.7	1278.9	1270.0
17.5°	1255.8	1255.8	1257.9	1248.0	1241.1
20°	1223.3	1224.9	1224.9	1217.0	1209.2
22.5°	1185.6	1190.3	1191.9	1183.5	1174.0
25°	1141.0	1149.9	1155.1	1146.8	1136.8
27.5°	1087.0	1100.6	1116.3	1110.1	1099.0
30°	1026.7	1046.6	1072.8	1067.6	1059.7
32.5°	969.5	989.5	1025.6	1023.5	1019.3
35°	917.6	930.2	972.7	977.9	974.2
37.5°	868.3	879.9	919.7	931.8	928.6
40°	816.4	829.0	860.5	882.0	883.0
42.5°	765.0	777.1	802.8	833.7	833.7
45°	710.5	722.6	746.2	780.2	784.4
47.5°	657.0	669.6	692.7	726.8	733.6
50°	604.6	616.1	639.2	672.2	682.7
52.5°	550.0	562.6	585.2	615.6	630.8
55°	497.6	506.0	530.6	560.0	576.3
57.5°	443.1	450.9	478.7	503.9	520.7
60°	390.6	400.6	422.1	447.8	467.2
62.5°	340.3	350.8	369.1	391.7	413.7
65°	291.5	299.4	317.2	339.8	359.2
67.5°	244.3	251.2	269.0	284.7	305.2
70°	196.6	205.5	218.7	233.9	247.0
72.5°	158.4	162.0	173.0	184.0	197.7
75°	116.9	123.2	132.1	138.4	146.3
77.5°	83.9	87.6	92.8	98.1	105.4
80°	56.1	57.7	62.4	63.4	69.2
82.5°	34.1	35.1	36.2	36.7	38.8
85°	18.4	18.4	18.4	17.3	17.3
87.5°	10.5	10.5	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)