

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: P554675

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-85-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: P554675  
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-80-85-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

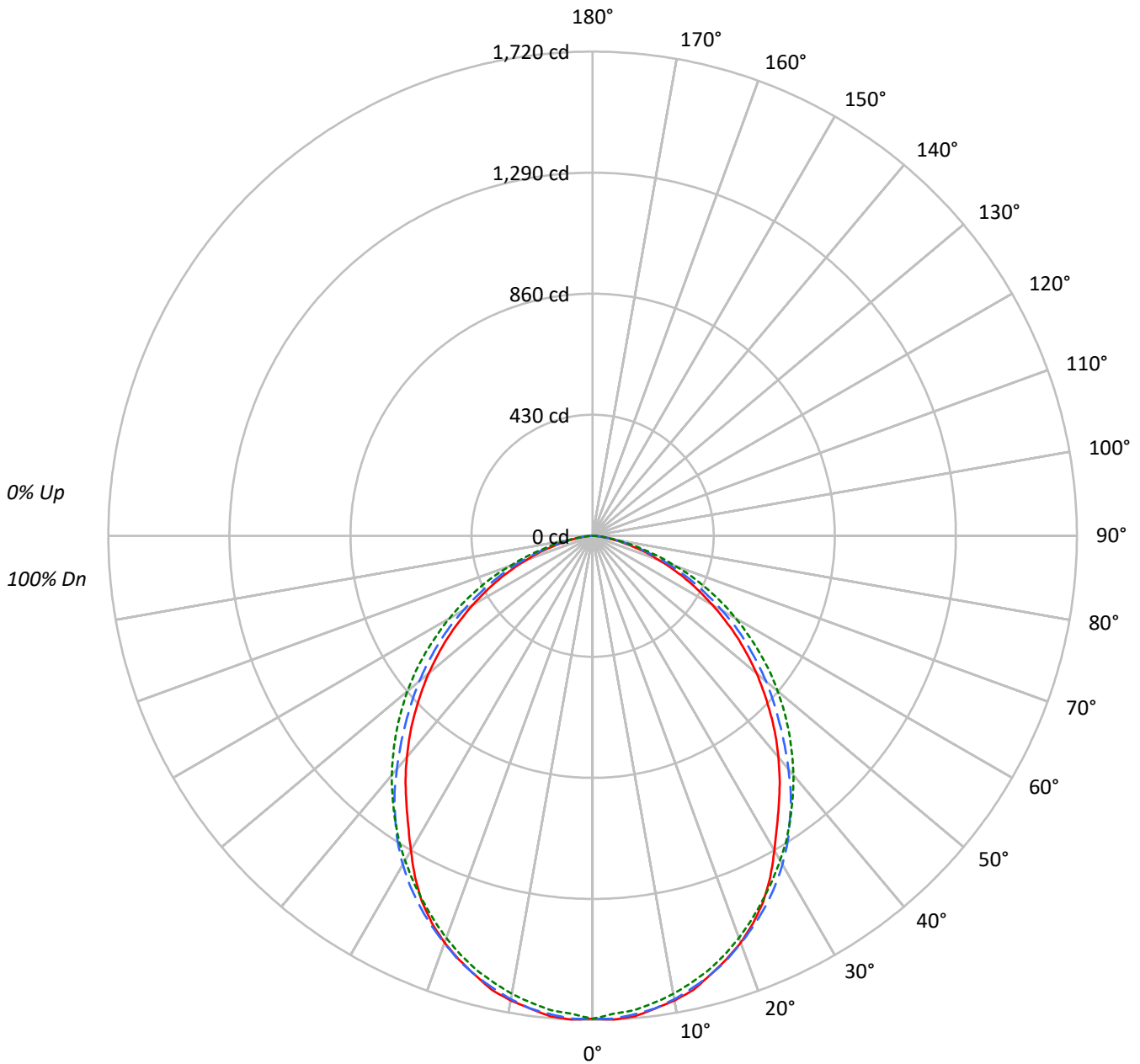
Lumens per Lamp: N/A  
Luminaire Lumens: 3967.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (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°	9233	9233	9233
5°	9258	9219	9141
10°	9160	9135	9030
15°	8997	8997	8894
20°	8807	8818	8705
25°	8517	8622	8485
30°	8020	8380	8278
35°	7578	8033	8046
40°	7210	7599	7798
45°	6798	7139	7505
50°	6363	6727	7185
55°	5869	6259	6796
60°	5285	5711	6322
65°	4667	5079	5750
70°	3890	4324	4884
75°	3057	3454	3824
80°	2185	2430	2696
85°	1426	1426	1346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	4.1
10°-20°	453.8	11.4
20°-30°	663.1	16.7
30°-40°	752.7	19.0
40°-50°	726.6	18.3
50°-60°	599.4	15.1
60°-70°	399.2	10.1
70°-80°	178.6	4.5
80°-90°	32.0	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°	1278.4	32.2
0°-40°	2031.2	51.2
0°-60°	3357.2	84.6
0°-90°	3967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1714	1713	1706	1697	1692	162
15°	1615	1619	1615	1608	1596	455
25°	1434	1445	1452	1441	1429	657
35°	1153	1169	1223	1229	1225	723
45°	893	908	938	981	986	689
55°	626	636	667	704	724	558
65°	366	376	399	427	452	363
75°	147	155	166	174	184	161
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1720.2	1720.9	1716.9	1706.4	1699.8
5°	1713.6	1713.0	1706.4	1697.2	1691.9
7.5°	1694.5	1695.9	1693.9	1680.7	1673.4
10°	1676.1	1676.7	1671.5	1660.9	1652.4
12.5°	1652.4	1651.7	1644.4	1639.2	1625.3
15°	1614.8	1618.7	1614.8	1607.5	1596.3
17.5°	1578.5	1578.5	1581.2	1568.6	1560.1
20°	1537.7	1539.6	1539.6	1529.8	1519.9
22.5°	1490.2	1496.1	1498.1	1487.6	1475.7
25°	1434.2	1445.4	1452.0	1441.4	1428.9
27.5°	1366.3	1383.4	1403.2	1395.3	1381.5
30°	1290.5	1315.6	1348.5	1341.9	1332.0
32.5°	1218.7	1243.7	1289.2	1286.6	1281.3
35°	1153.4	1169.2	1222.6	1229.2	1224.6
37.5°	1091.5	1106.0	1156.1	1171.2	1167.3
40°	1026.2	1042.0	1081.6	1108.6	1109.9
42.5°	961.6	976.8	1009.1	1048.0	1048.0
45°	893.1	908.2	937.9	980.7	986.0
47.5°	825.8	841.7	870.7	913.5	922.1
50°	759.9	774.4	803.4	845.0	858.1
52.5°	691.4	707.2	735.6	773.8	792.9
55°	625.5	636.0	667.0	703.9	724.3
57.5°	556.9	566.8	601.8	633.4	654.5
60°	491.0	503.5	530.6	562.9	587.3
62.5°	427.8	440.9	464.0	492.3	520.0
65°	366.5	376.3	398.8	427.1	451.5
67.5°	307.1	315.7	338.1	357.9	383.6
70°	247.2	258.4	274.8	294.0	310.4
72.5°	199.0	203.7	217.5	231.3	248.5
75°	147.0	154.9	166.1	174.0	183.9
77.5°	105.5	110.1	116.7	123.3	132.5
80°	70.5	72.5	78.4	79.8	87.0
82.5°	42.8	44.2	45.5	46.1	48.8
85°	23.1	23.1	23.1	21.8	21.8
87.5°	13.2	13.2	11.2	9.2	6.6
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)