

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: P554619

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-94-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: P554619  
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-30-UNV-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

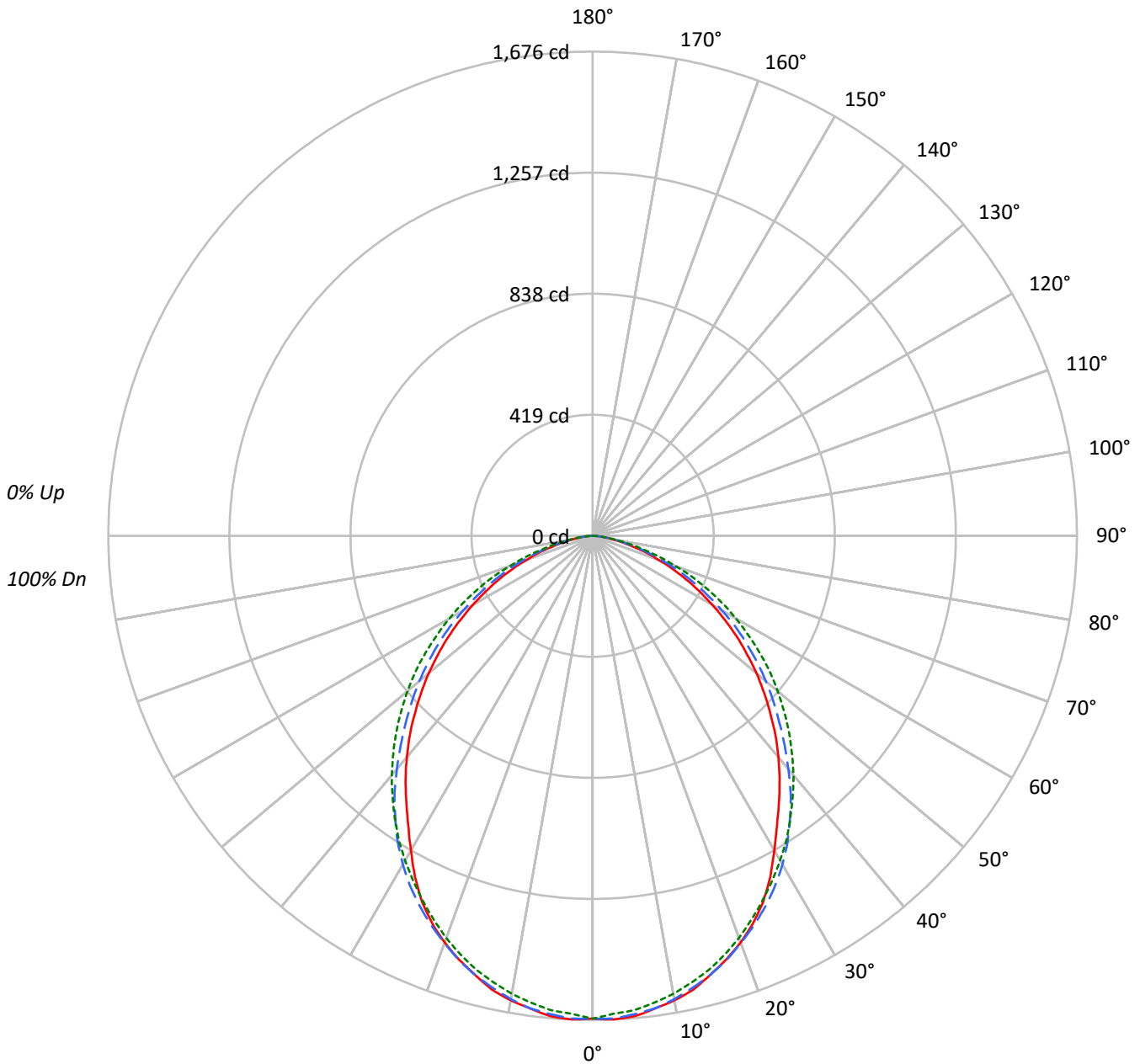
Lumens per Lamp: N/A  
Luminaire Lumens: 3865.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	8996	8996	8996
5°	9020	8982	8906
10°	8924	8900	8798
15°	8766	8766	8666
20°	8580	8592	8481
25°	8298	8401	8267
30°	7814	8165	8065
35°	7384	7826	7839
40°	7024	7404	7598
45°	6623	6955	7312
50°	6199	6554	7001
55°	5718	6098	6622
60°	5149	5564	6159
65°	4546	4947	5602
70°	3789	4214	4760
75°	2978	3365	3726
80°	2129	2368	2628
85°	1389	1389	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	4.1
10°-20°	442.1	11.4
20°-30°	646.1	16.7
30°-40°	733.4	19.0
40°-50°	708.0	18.3
50°-60°	584.0	15.1
60°-70°	388.9	10.1
70°-80°	174.0	4.5
80°-90°	31.1	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°	1245.6	32.2
0°-40°	1978.9	51.2
0°-60°	3270.9	84.6
0°-90°	3865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1670	1669	1662	1654	1648	158
15°	1573	1577	1573	1566	1555	444
25°	1397	1408	1415	1404	1392	640
35°	1124	1139	1191	1198	1193	704
45°	870	885	914	956	961	671
55°	609	620	650	686	706	544
65°	357	367	388	416	440	354
75°	143	151	162	170	179	157
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1676.0	1676.6	1672.8	1662.5	1656.1
5°	1669.6	1668.9	1662.5	1653.5	1648.4
7.5°	1651.0	1652.2	1650.3	1637.5	1630.4
10°	1633.0	1633.6	1628.5	1618.2	1609.9
12.5°	1609.9	1609.2	1602.2	1597.0	1583.5
15°	1573.3	1577.1	1573.3	1566.2	1555.3
17.5°	1537.9	1537.9	1540.5	1528.3	1520.0
20°	1498.1	1500.1	1500.1	1490.4	1480.8
22.5°	1451.9	1457.7	1459.6	1449.3	1437.8
25°	1397.3	1408.2	1414.7	1404.4	1392.2
27.5°	1331.2	1347.9	1367.1	1359.4	1345.9
30°	1257.3	1281.7	1313.8	1307.4	1297.8
32.5°	1187.3	1211.7	1256.0	1253.5	1248.3
35°	1123.8	1139.2	1191.2	1197.6	1193.1
37.5°	1063.4	1077.5	1126.3	1141.1	1137.2
40°	999.8	1015.2	1053.8	1080.1	1081.4
42.5°	936.9	951.7	983.1	1021.0	1021.0
45°	870.1	884.9	913.8	955.5	960.7
47.5°	804.6	820.0	848.3	890.0	898.4
50°	740.4	754.5	782.8	823.2	836.1
52.5°	673.6	689.0	716.6	753.9	772.5
55°	609.4	619.7	649.9	685.8	705.7
57.5°	542.6	552.2	586.3	617.1	637.7
60°	478.4	490.6	516.9	548.4	572.2
62.5°	416.8	429.6	452.1	479.7	506.7
65°	357.0	366.7	388.5	416.1	439.9
67.5°	299.2	307.6	329.4	348.7	373.7
70°	240.8	251.7	267.8	286.4	302.5
72.5°	193.9	198.4	211.9	225.4	242.1
75°	143.2	150.9	161.8	169.5	179.2
77.5°	102.7	107.2	113.7	120.1	129.1
80°	68.7	70.6	76.4	77.7	84.8
82.5°	41.7	43.0	44.3	45.0	47.5
85°	22.5	22.5	22.5	21.2	21.2
87.5°	12.8	12.8	10.9	9.0	6.4
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)