

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: P555883

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-94-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: P555883  
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-50-UNV-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

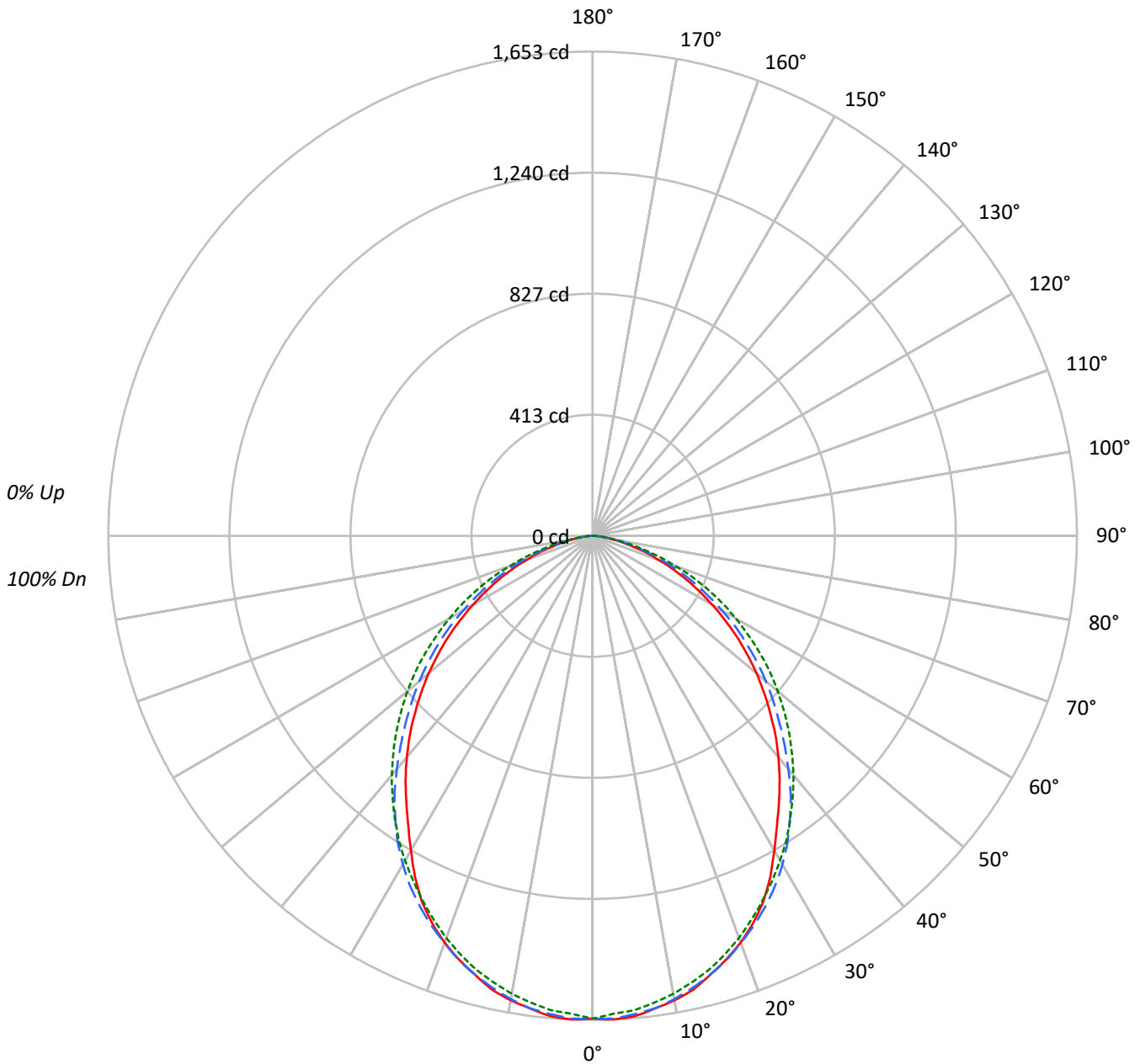
Lumens per Lamp: N/A  
Luminaire Lumens: 3812.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8873	8873	8873
5°	8896	8859	8783
10°	8802	8778	8677
15°	8646	8646	8547
20°	8463	8474	8365
25°	8184	8286	8154
30°	7707	8053	7955
35°	7282	7719	7732
40°	6928	7302	7493
45°	6532	6859	7212
50°	6114	6464	6904
55°	5639	6014	6531
60°	5078	5487	6074
65°	4484	4880	5524
70°	3737	4156	4694
75°	2936	3319	3674
80°	2101	2337	2591
85°	1371	1371	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	4.1
10°-20°	436.1	11.4
20°-30°	637.2	16.7
30°-40°	723.3	19.0
40°-50°	698.2	18.3
50°-60°	576.0	15.1
60°-70°	383.6	10.1
70°-80°	171.6	4.5
80°-90°	30.7	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°	1228.5	32.2
0°-40°	1951.8	51.2
0°-60°	3226.1	84.6
0°-90°	3812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1647	1646	1640	1631	1626	156
15°	1552	1556	1552	1545	1534	437
25°	1378	1389	1395	1385	1373	631
35°	1108	1124	1175	1181	1177	694
45°	858	873	901	942	948	662
55°	601	611	641	676	696	536
65°	352	362	383	410	434	349
75°	141	149	160	167	177	154
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°	1648.6	1648.6	1648.6	1648.6	1648.6
2.5°	1653.0	1653.7	1649.9	1639.7	1633.4
5°	1646.7	1646.1	1639.7	1630.9	1625.8
7.5°	1628.3	1629.6	1627.7	1615.0	1608.1
10°	1610.6	1611.2	1606.2	1596.0	1587.8
12.5°	1587.8	1587.2	1580.2	1575.1	1561.8
15°	1551.7	1555.5	1551.7	1544.7	1534.0
17.5°	1516.9	1516.9	1519.4	1507.4	1499.1
20°	1477.6	1479.5	1479.5	1470.0	1460.5
22.5°	1432.0	1437.7	1439.6	1429.5	1418.1
25°	1378.2	1388.9	1395.3	1385.1	1373.1
27.5°	1312.9	1329.4	1348.4	1340.8	1327.5
30°	1240.1	1264.2	1295.8	1289.5	1280.0
32.5°	1171.1	1195.1	1238.8	1236.3	1231.2
35°	1108.4	1123.6	1174.9	1181.2	1176.8
37.5°	1048.8	1062.7	1110.9	1125.5	1121.7
40°	986.1	1001.3	1039.3	1065.3	1066.5
42.5°	924.0	938.6	969.6	1007.0	1007.0
45°	858.2	872.7	901.2	942.4	947.5
47.5°	793.6	808.8	836.6	877.8	886.0
50°	730.2	744.2	772.0	811.9	824.6
52.5°	664.4	679.6	706.8	743.5	761.9
55°	601.0	611.2	640.9	676.4	696.0
57.5°	535.2	544.7	578.2	608.6	628.9
60°	471.8	483.9	509.8	540.9	564.3
62.5°	411.0	423.7	445.9	473.1	499.7
65°	352.1	361.6	383.2	410.4	433.8
67.5°	295.1	303.4	324.9	343.9	368.6
70°	237.5	248.3	264.1	282.5	298.3
72.5°	191.3	195.7	209.0	222.3	238.8
75°	141.2	148.8	159.6	167.2	176.7
77.5°	101.3	105.8	112.1	118.4	127.3
80°	67.8	69.7	75.4	76.6	83.6
82.5°	41.2	42.4	43.7	44.3	46.9
85°	22.2	22.2	22.2	20.9	20.9
87.5°	12.7	12.7	10.8	8.9	6.3
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)