

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: P555873

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-84-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: P555873  
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-93-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

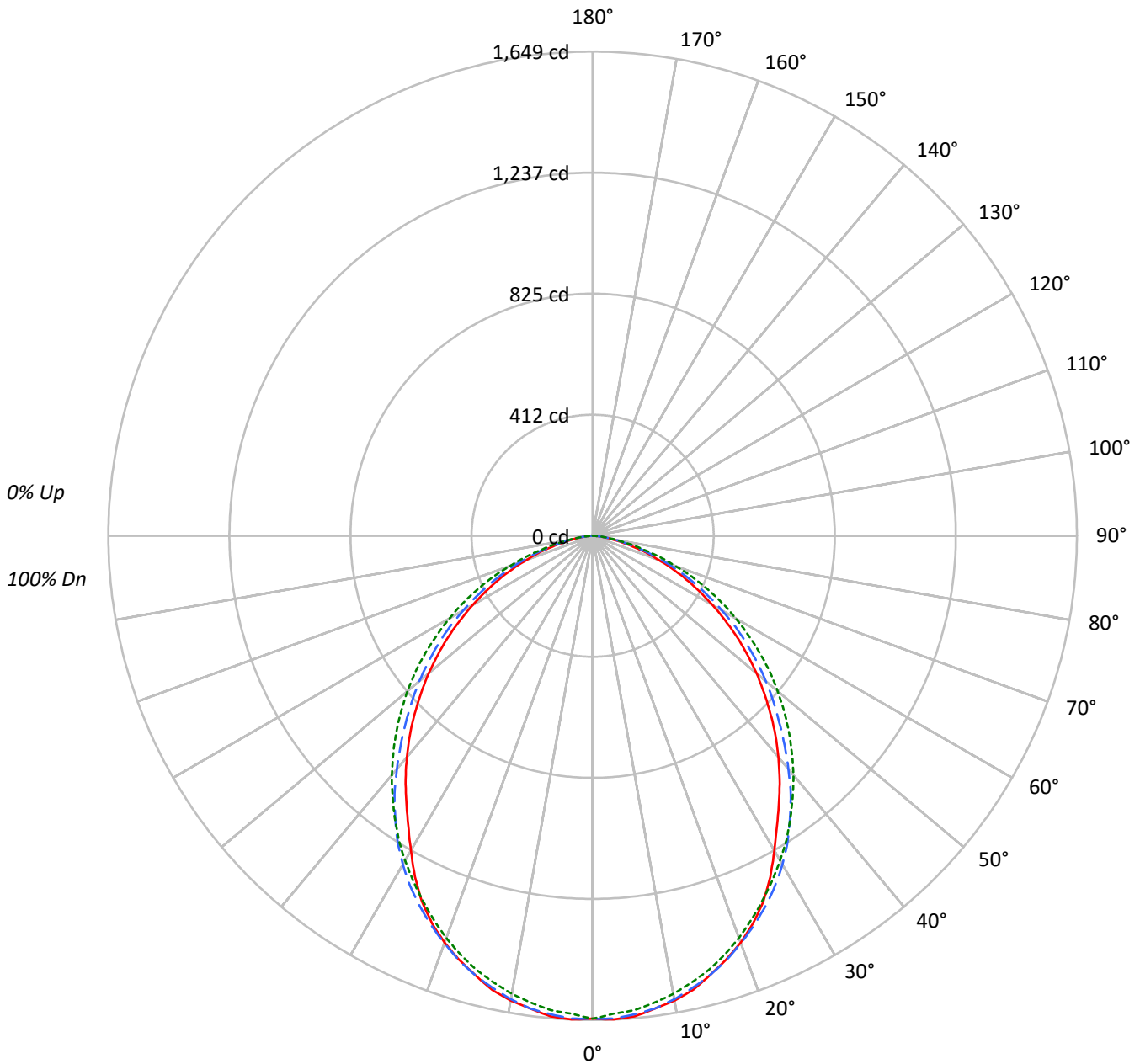
Lumens per Lamp: N/A  
Luminaire Lumens: 3803.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8852	8852	8852
5°	8875	8838	8763
10°	8781	8757	8657
15°	8625	8625	8527
20°	8443	8454	8345
25°	8165	8266	8134
30°	7689	8034	7936
35°	7265	7701	7713
40°	6912	7285	7475
45°	6517	6843	7194
50°	6100	6449	6888
55°	5626	6000	6516
60°	5067	5475	6060
65°	4474	4869	5512
70°	3728	4146	4683
75°	2930	3310	3666
80°	2095	2331	2585
85°	1365	1365	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.9	4.1
10°-20°	435.0	11.4
20°-30°	635.7	16.7
30°-40°	721.6	19.0
40°-50°	696.6	18.3
50°-60°	574.6	15.1
60°-70°	382.7	10.1
70°-80°	171.2	4.5
80°-90°	30.6	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°	1225.6	32.2
0°-40°	1947.2	51.2
0°-60°	3218.5	84.6
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1643	1642	1636	1627	1622	155
15°	1548	1552	1548	1541	1530	436
25°	1375	1386	1392	1382	1370	630
35°	1106	1121	1172	1178	1174	693
45°	856	871	899	940	945	661
55°	600	610	639	675	694	535
65°	351	361	382	409	433	348
75°	141	148	159	167	176	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°	1644.7	1644.7	1644.7	1644.7	1644.7
2.5°	1649.1	1649.8	1646.0	1635.9	1629.5
5°	1642.8	1642.2	1635.9	1627.0	1622.0
7.5°	1624.5	1625.7	1623.8	1611.2	1604.3
10°	1606.8	1607.4	1602.4	1592.3	1584.0
12.5°	1584.0	1583.4	1576.5	1571.4	1558.1
15°	1548.0	1551.8	1548.0	1541.1	1530.3
17.5°	1513.3	1513.3	1515.8	1503.8	1495.6
20°	1474.1	1476.0	1476.0	1466.5	1457.0
22.5°	1428.6	1434.3	1436.2	1426.1	1414.7
25°	1374.9	1385.6	1392.0	1381.9	1369.8
27.5°	1309.8	1326.2	1345.2	1337.6	1324.4
30°	1237.2	1261.2	1292.8	1286.4	1277.0
32.5°	1168.3	1192.3	1235.9	1233.4	1228.3
35°	1105.7	1120.9	1172.1	1178.4	1174.0
37.5°	1046.3	1060.2	1108.3	1122.8	1119.0
40°	983.8	999.0	1036.9	1062.8	1064.0
42.5°	921.9	936.4	967.4	1004.6	1004.6
45°	856.2	870.7	899.1	940.2	945.2
47.5°	791.7	806.9	834.7	875.7	884.0
50°	728.5	742.4	770.2	810.0	822.7
52.5°	662.8	678.0	705.1	741.8	760.1
55°	599.6	609.7	639.4	674.8	694.4
57.5°	533.9	543.4	576.9	607.2	627.4
60°	470.7	482.7	508.6	539.6	563.0
62.5°	410.1	422.7	444.8	472.0	498.5
65°	351.3	360.8	382.3	409.4	432.8
67.5°	294.4	302.7	324.1	343.1	367.7
70°	236.9	247.7	263.5	281.8	297.6
72.5°	190.8	195.2	208.5	221.8	238.2
75°	140.9	148.5	159.2	166.8	176.3
77.5°	101.1	105.5	111.8	118.2	127.0
80°	67.6	69.5	75.2	76.5	83.4
82.5°	41.1	42.3	43.6	44.2	46.8
85°	22.1	22.1	22.1	20.9	20.9
87.5°	12.6	12.6	10.7	8.8	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)