

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: P555998

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-97-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: P555998  
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-LD4-3STD-35-UNV-82-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

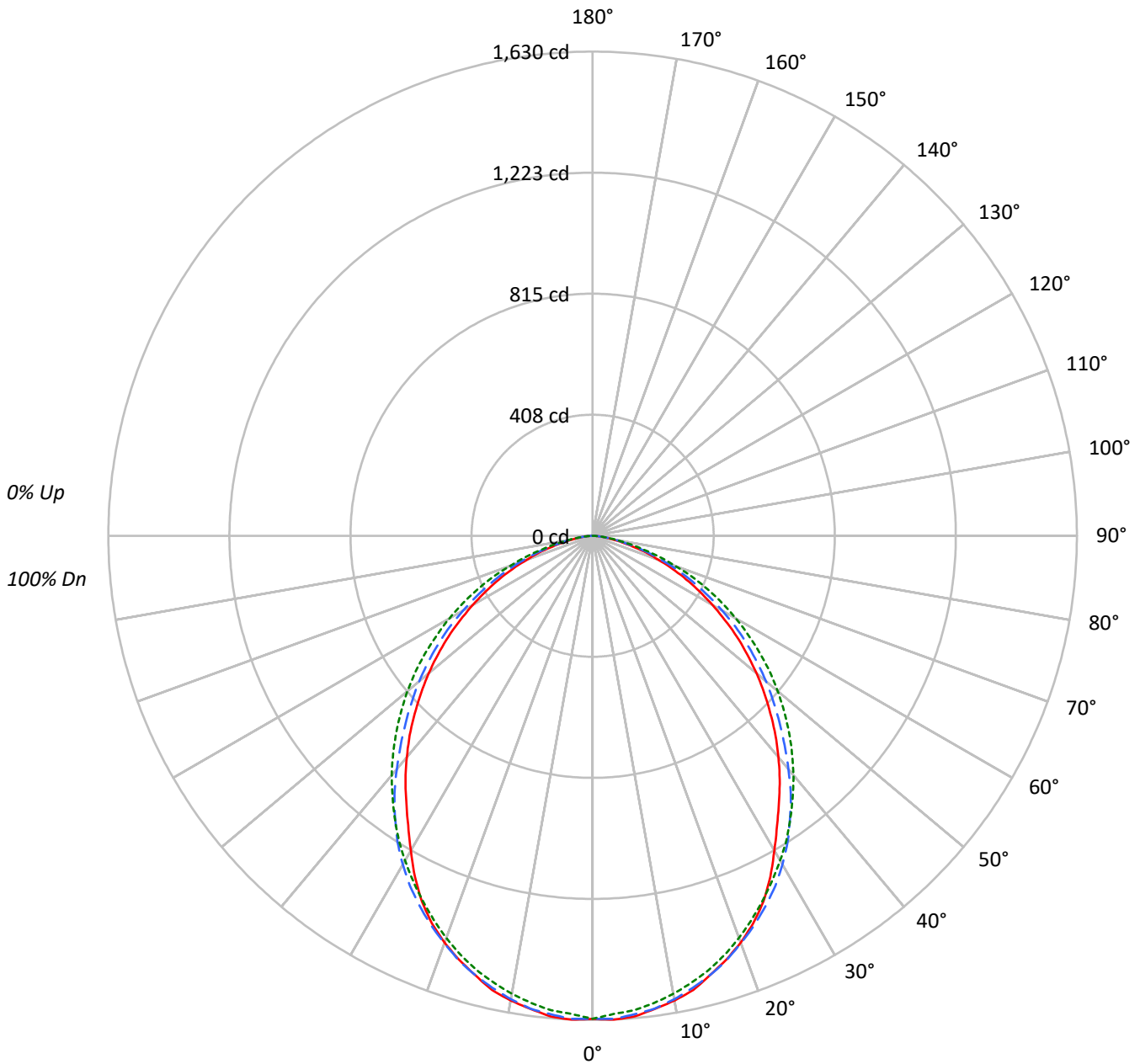
Lumens per Lamp: N/A  
Luminaire Lumens: 3760.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	8752	8752	8752
5°	8775	8738	8663
10°	8682	8658	8559
15°	8528	8528	8430
20°	8347	8358	8251
25°	8073	8172	8043
30°	7602	7943	7846
35°	7182	7613	7626
40°	6834	7202	7391
45°	6443	6766	7113
50°	6031	6376	6810
55°	5562	5932	6442
60°	5010	5413	5991
65°	4423	4812	5449
70°	3687	4099	4629
75°	2897	3273	3624
80°	2070	2303	2557
85°	1352	1352	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	4.1
10°-20°	430.1	11.4
20°-30°	628.5	16.7
30°-40°	713.4	19.0
40°-50°	688.7	18.3
50°-60°	568.1	15.1
60°-70°	378.3	10.1
70°-80°	169.3	4.5
80°-90°	30.3	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°	1211.7	32.2
0°-40°	1925.2	51.2
0°-60°	3182.1	84.6
0°-90°	3760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1624	1624	1617	1609	1604	154
15°	1530	1534	1530	1524	1513	431
25°	1359	1370	1376	1366	1354	623
35°	1093	1108	1159	1165	1161	685
45°	846	861	889	930	935	653
55°	593	603	632	667	686	529
65°	347	357	378	405	428	344
75°	139	147	157	165	174	152
85°	22	22	22	21	21	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1626.1	1626.1	1626.1	1626.1	1626.1
2.5°	1630.5	1631.1	1627.4	1617.4	1611.1
5°	1624.2	1623.6	1617.4	1608.6	1603.6
7.5°	1606.1	1607.4	1605.5	1593.0	1586.1
10°	1588.6	1589.2	1584.2	1574.3	1566.1
12.5°	1566.1	1565.5	1558.6	1553.6	1540.5
15°	1530.5	1534.3	1530.5	1523.7	1513.0
17.5°	1496.2	1496.2	1498.7	1486.8	1478.7
20°	1457.4	1459.3	1459.3	1449.9	1440.6
22.5°	1412.5	1418.1	1420.0	1410.0	1398.7
25°	1359.4	1370.0	1376.2	1366.2	1354.4
27.5°	1295.0	1311.3	1330.0	1322.5	1309.4
30°	1223.2	1246.9	1278.1	1271.9	1262.5
32.5°	1155.1	1178.8	1221.9	1219.4	1214.4
35°	1093.2	1108.2	1158.8	1165.1	1160.7
37.5°	1034.5	1048.3	1095.7	1110.1	1106.3
40°	972.7	987.7	1025.1	1050.8	1052.0
42.5°	911.4	925.8	956.4	993.3	993.3
45°	846.5	860.8	889.0	929.6	934.6
47.5°	782.8	797.7	825.2	865.8	874.0
50°	720.3	734.0	761.5	800.9	813.4
52.5°	655.3	670.3	697.2	733.4	751.5
55°	592.8	602.8	632.2	667.2	686.5
57.5°	527.9	537.2	570.4	600.3	620.3
60°	465.4	477.3	502.9	533.5	556.6
62.5°	405.4	417.9	439.8	466.7	492.9
65°	347.3	356.7	377.9	404.8	427.9
67.5°	291.1	299.2	320.5	339.2	363.6
70°	234.3	244.9	260.5	278.6	294.2
72.5°	188.7	193.0	206.2	219.3	235.5
75°	139.3	146.8	157.4	164.9	174.3
77.5°	100.0	104.3	110.6	116.8	125.6
80°	66.8	68.7	74.3	75.6	82.5
82.5°	40.6	41.9	43.1	43.7	46.2
85°	21.9	21.9	21.9	20.6	20.6
87.5°	12.5	12.5	10.6	8.7	6.2
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)