

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: P555697

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-84-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: P555697  
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-35-UNV-80-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

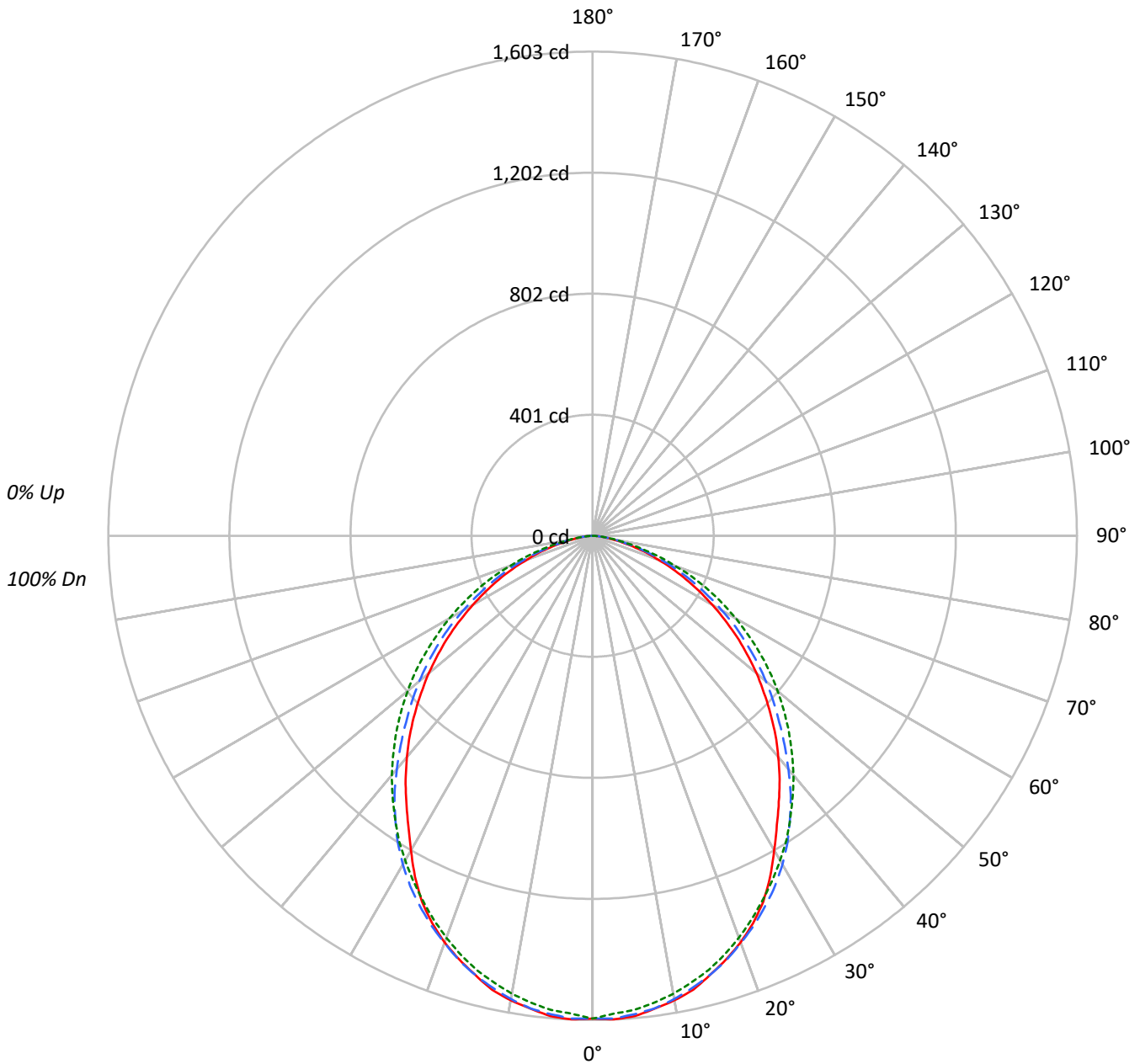
Lumens per Lamp: N/A  
Luminaire Lumens: 3696.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8603	8603	8603
5°	8626	8589	8516
10°	8534	8511	8413
15°	8383	8383	8287
20°	8205	8216	8110
25°	7935	8033	7906
30°	7472	7808	7712
35°	7060	7484	7496
40°	6717	7080	7265
45°	6333	6651	6992
50°	5928	6268	6694
55°	5469	5831	6333
60°	4924	5321	5889
65°	4348	4731	5356
70°	3624	4030	4551
75°	2847	3217	3562
80°	2036	2266	2514
85°	1328	1328	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	4.1
10°-20°	422.8	11.4
20°-30°	617.8	16.7
30°-40°	701.3	19.0
40°-50°	677.0	18.3
50°-60°	558.5	15.1
60°-70°	371.9	10.1
70°-80°	166.4	4.5
80°-90°	29.8	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°	1191.1	32.2
0°-40°	1892.4	51.2
0°-60°	3127.9	84.6
0°-90°	3696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1597	1596	1590	1581	1576	151
15°	1504	1508	1504	1498	1487	424
25°	1336	1347	1353	1343	1331	612
35°	1075	1089	1139	1145	1141	673
45°	832	846	874	914	919	642
55°	583	593	621	656	675	520
65°	341	351	372	398	421	339
75°	137	144	155	162	171	150
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1598.4	1598.4	1598.4	1598.4	1598.4
2.5°	1602.7	1603.3	1599.7	1589.8	1583.7
5°	1596.6	1596.0	1589.8	1581.2	1576.3
7.5°	1578.8	1580.0	1578.2	1565.9	1559.1
10°	1561.6	1562.2	1557.3	1547.5	1539.5
12.5°	1539.5	1538.9	1532.1	1527.2	1514.3
15°	1504.5	1508.2	1504.5	1497.7	1487.3
17.5°	1470.7	1470.7	1473.2	1461.5	1453.5
20°	1432.6	1434.5	1434.5	1425.3	1416.0
22.5°	1388.4	1393.9	1395.8	1386.0	1374.9
25°	1336.2	1346.7	1352.8	1343.0	1331.3
27.5°	1273.0	1288.9	1307.4	1300.0	1287.1
30°	1202.3	1225.7	1256.4	1250.2	1241.0
32.5°	1135.4	1158.8	1201.1	1198.7	1193.8
35°	1074.6	1089.4	1139.1	1145.2	1140.9
37.5°	1016.9	1030.4	1077.1	1091.2	1087.5
40°	956.1	970.8	1007.7	1032.9	1034.1
42.5°	895.9	910.1	940.1	976.4	976.4
45°	832.1	846.2	873.8	913.7	918.6
47.5°	769.4	784.2	811.2	851.1	859.1
50°	708.0	721.5	748.6	787.2	799.5
52.5°	644.2	658.9	685.3	720.9	738.7
55°	582.8	592.6	621.4	655.8	674.9
57.5°	518.9	528.1	560.6	590.1	609.8
60°	457.5	469.1	494.3	524.4	547.1
62.5°	398.5	410.8	432.3	458.7	484.5
65°	341.4	350.6	371.5	397.9	420.6
67.5°	286.2	294.1	315.0	333.4	357.4
70°	230.3	240.7	256.1	273.9	289.2
72.5°	185.4	189.7	202.6	215.5	231.5
75°	136.9	144.3	154.7	162.1	171.3
77.5°	98.3	102.5	108.7	114.8	123.4
80°	65.7	67.5	73.1	74.3	81.1
82.5°	39.9	41.1	42.4	43.0	45.4
85°	21.5	21.5	21.5	20.3	20.3
87.5°	12.3	12.3	10.4	8.6	6.1
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)