

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: P555869

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-96-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: P555869  
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-82-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

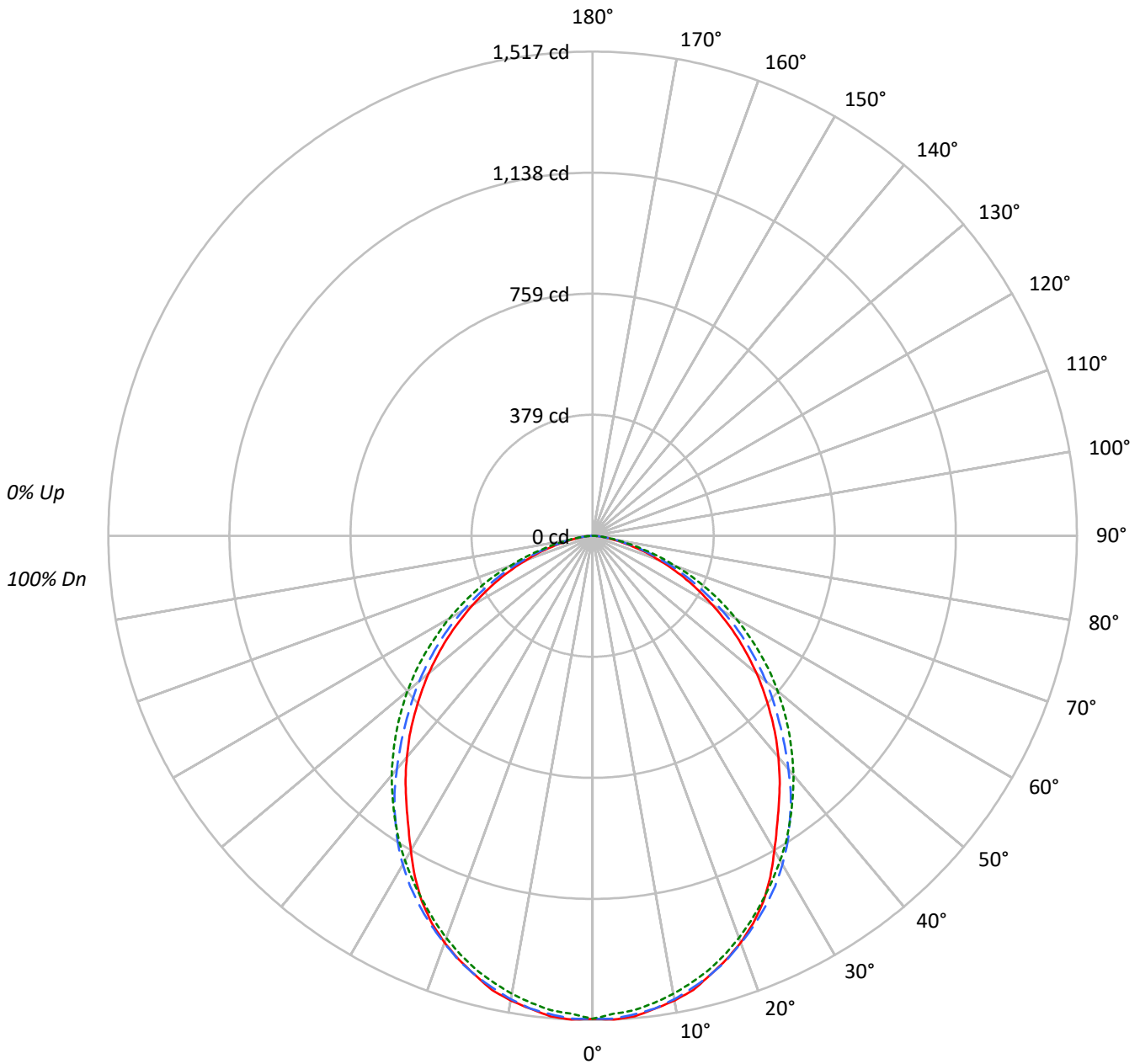
Lumens per Lamp: N/A  
Luminaire Lumens: 3499.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8144	8144	8144
5°	8166	8131	8062
10°	8079	8057	7965
15°	7936	7936	7845
20°	7768	7778	7678
25°	7512	7605	7484
30°	7074	7392	7301
35°	6684	7085	7096
40°	6359	6702	6878
45°	5995	6296	6619
50°	5612	5934	6337
55°	5177	5520	5995
60°	4662	5038	5576
65°	4116	4479	5071
70°	3430	3814	4308
75°	2695	3046	3373
80°	1928	2145	2377
85°	1254	1254	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	4.1
10°-20°	400.3	11.4
20°-30°	584.9	16.7
30°-40°	663.9	19.0
40°-50°	640.9	18.3
50°-60°	528.7	15.1
60°-70°	352.1	10.1
70°-80°	157.5	4.5
80°-90°	28.2	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°	1127.6	32.2
0°-40°	1791.6	51.2
0°-60°	2961.2	84.6
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1512	1511	1505	1497	1492	143
15°	1424	1428	1424	1418	1408	402
25°	1265	1275	1281	1271	1260	579
35°	1017	1031	1078	1084	1080	637
45°	788	801	827	865	870	608
55°	552	561	588	621	639	492
65°	323	332	352	377	398	320
75°	130	137	146	154	162	142
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.2	1513.2	1513.2	1513.2	1513.2
2.5°	1517.3	1517.9	1514.4	1505.1	1499.3
5°	1511.5	1510.9	1505.1	1496.9	1492.3
7.5°	1494.6	1495.8	1494.0	1482.4	1476.0
10°	1478.3	1478.9	1474.3	1465.0	1457.4
12.5°	1457.4	1456.8	1450.4	1445.8	1433.6
15°	1424.3	1427.8	1424.3	1417.9	1408.0
17.5°	1392.3	1392.3	1394.6	1383.6	1376.0
20°	1356.3	1358.0	1358.0	1349.3	1340.6
22.5°	1314.4	1319.6	1321.4	1312.1	1301.6
25°	1265.0	1274.9	1280.7	1271.4	1260.3
27.5°	1205.1	1220.2	1237.7	1230.7	1218.5
30°	1138.3	1160.4	1189.4	1183.6	1174.9
32.5°	1074.9	1097.0	1137.1	1134.8	1130.1
35°	1017.3	1031.3	1078.4	1084.2	1080.1
37.5°	962.7	975.5	1019.7	1033.0	1029.6
40°	905.1	919.1	954.0	977.8	979.0
42.5°	848.2	861.5	890.0	924.3	924.3
45°	787.7	801.1	827.2	865.0	869.7
47.5°	728.4	742.4	767.9	805.7	813.3
50°	670.3	683.1	708.7	745.3	756.9
52.5°	609.8	623.8	648.8	682.5	699.4
55°	551.7	561.0	588.3	620.9	638.9
57.5°	491.2	500.0	530.8	558.7	577.3
60°	433.1	444.1	468.0	496.5	518.0
62.5°	377.3	388.9	409.3	434.3	458.7
65°	323.2	331.9	351.7	376.7	398.2
67.5°	270.9	278.5	298.2	315.7	338.3
70°	218.0	227.9	242.4	259.3	273.8
72.5°	175.6	179.6	191.8	204.1	219.2
75°	129.6	136.6	146.5	153.5	162.2
77.5°	93.0	97.1	102.9	108.7	116.8
80°	62.2	63.9	69.2	70.3	76.7
82.5°	37.8	38.9	40.1	40.7	43.0
85°	20.3	20.3	20.3	19.2	19.2
87.5°	11.6	11.6	9.9	8.1	5.8
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)