

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: P555517

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-96-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: P555517  
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-LD4-3HI-40-UNV-80-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

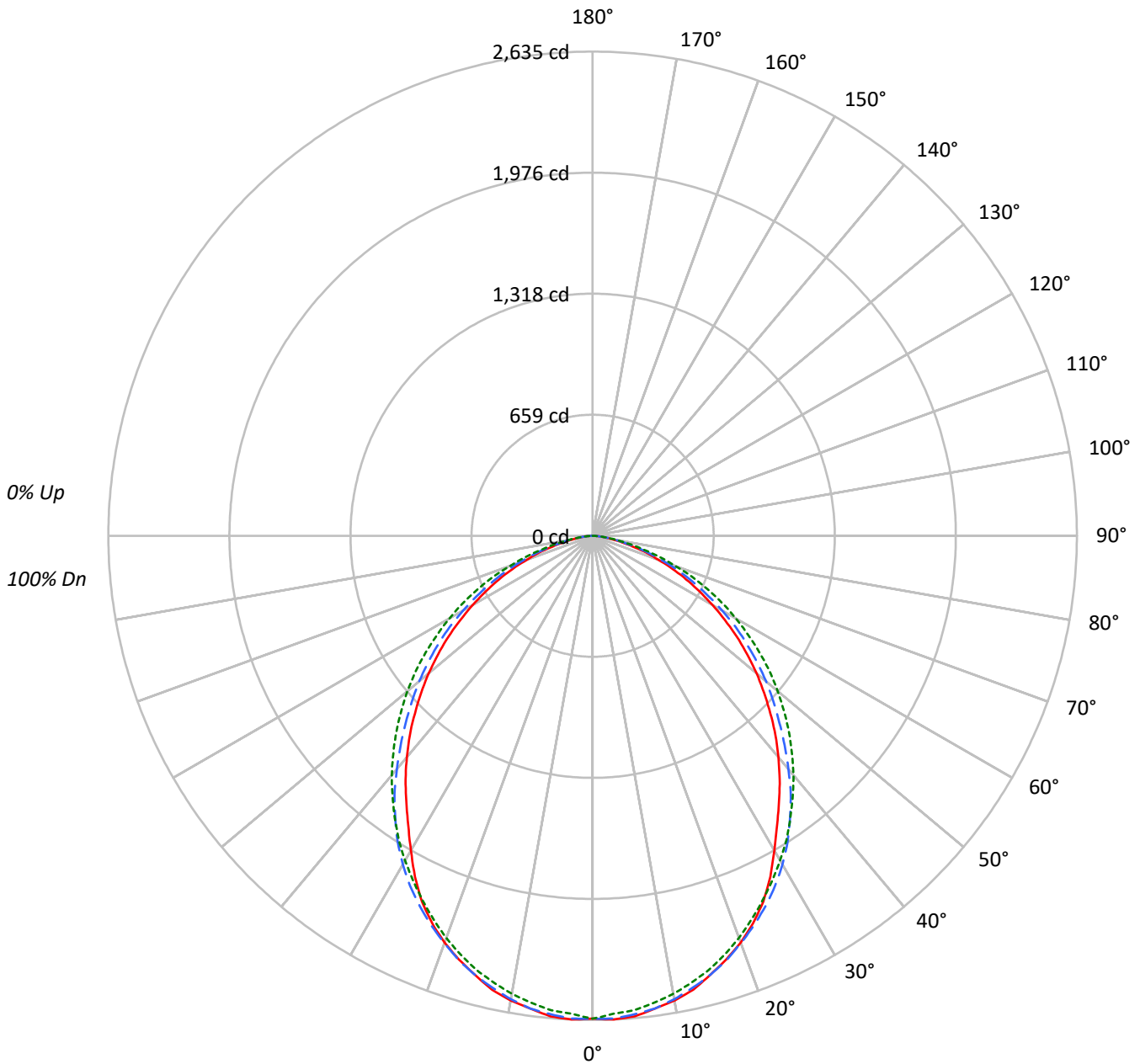
Lumens per Lamp: N/A  
Luminaire Lumens: 6077.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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

TEST NUMBER: P555517

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-96-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P555517

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-96-EDD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	14144	14144	14144
5°	14182	14122	14002
10°	14032	13993	13833
15°	13783	13783	13625
20°	13491	13509	13335
25°	13047	13209	12998
30°	12286	12838	12681
35°	11609	12305	12325
40°	11044	11641	11946
45°	10413	10935	11497
50°	9747	10305	11007
55°	8991	9588	10412
60°	8097	8749	9683
65°	7149	7778	8807
70°	5958	6625	7482
75°	4683	5290	5858
80°	3347	3722	4131
85°	2180	2180	2056



TEST NUMBER: P555517

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-96-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.4	4.1
10°-20°	695.2	11.4
20°-30°	1015.8	16.7
30°-40°	1153.1	19.0
40°-50°	1113.1	18.3
50°-60°	918.3	15.1
60°-70°	611.5	10.1
70°-80°	273.6	4.5
80°-90°	48.9	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°	1958.4	32.2
0°-40°	3111.5	51.2
0°-60°	5142.9	84.6
0°-90°	6077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2628	2628	2628	2628	2628	
5°	2625	2624	2614	2600	2592	248
15°	2474	2480	2474	2463	2445	697
25°	2197	2214	2224	2208	2189	1006
35°	1767	1791	1873	1883	1876	1107
45°	1368	1391	1437	1502	1510	1056
55°	958	974	1022	1078	1110	855
65°	561	576	611	654	692	557
75°	225	237	254	267	282	246
85°	35	35	35	33	33	48
90°	0	0	0	0	0	



TEST NUMBER: P555517

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-96-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2628.1	2628.1	2628.1	2628.1	2628.1
2.5°	2635.2	2636.2	2630.2	2614.0	2603.9
5°	2625.1	2624.1	2614.0	2599.9	2591.8
7.5°	2595.8	2597.9	2594.8	2574.6	2563.5
10°	2567.6	2568.6	2560.5	2544.3	2531.2
12.5°	2531.2	2530.2	2519.1	2511.0	2489.8
15°	2473.7	2479.7	2473.7	2462.6	2445.4
17.5°	2418.1	2418.1	2422.2	2403.0	2389.9
20°	2355.5	2358.6	2358.6	2343.4	2328.3
22.5°	2282.8	2291.9	2295.0	2278.8	2260.6
25°	2197.0	2214.2	2224.3	2208.1	2188.9
27.5°	2093.0	2119.3	2149.6	2137.5	2116.2
30°	1976.9	2015.3	2065.8	2055.7	2040.5
32.5°	1866.9	1905.2	1974.9	1970.9	1962.8
35°	1766.9	1791.1	1872.9	1883.0	1875.9
37.5°	1672.0	1694.2	1770.9	1794.2	1788.1
40°	1572.0	1596.3	1656.9	1698.2	1700.3
42.5°	1473.1	1496.3	1545.8	1605.4	1605.4
45°	1368.1	1391.3	1436.7	1502.4	1510.5
47.5°	1265.1	1289.3	1333.8	1399.4	1412.5
50°	1164.1	1186.4	1230.8	1294.4	1314.6
52.5°	1059.1	1083.4	1126.8	1185.3	1214.6
55°	958.2	974.3	1021.8	1078.3	1109.6
57.5°	853.2	868.3	921.8	970.3	1002.6
60°	752.2	771.4	812.8	862.2	899.6
62.5°	655.3	675.5	710.8	754.2	796.6
65°	561.4	576.5	610.8	654.3	691.6
67.5°	470.5	483.6	518.0	548.2	587.6
70°	378.6	395.8	421.0	450.3	475.5
72.5°	304.9	312.0	333.2	354.4	380.6
75°	225.2	237.3	254.4	266.6	281.7
77.5°	161.5	168.6	178.7	188.8	202.9
80°	108.0	111.1	120.1	122.2	133.3
82.5°	65.6	67.6	69.7	70.7	74.7
85°	35.3	35.3	35.3	33.3	33.3
87.5°	20.2	20.2	17.2	14.1	10.1
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)