

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: P555961

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-88-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: P555961
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

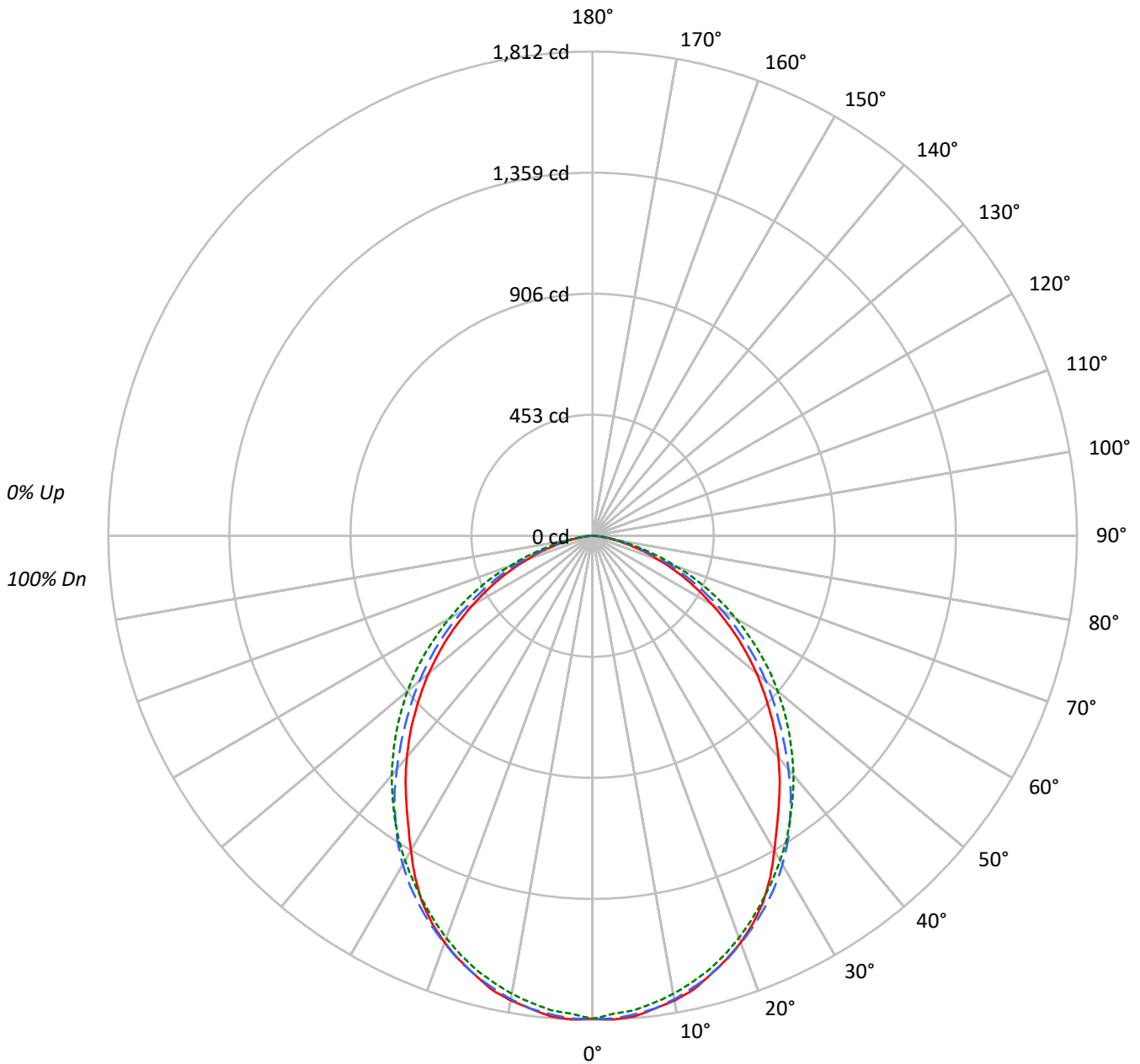
Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): 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: P555961

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-80-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555961

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-80-88-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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9753	9712	9629
10°	9650	9623	9513
15°	9478	9478	9370
20°	9277	9289	9170
25°	8972	9083	8939
30°	8449	8828	8720
35°	7983	8462	8476
40°	7595	8005	8214
45°	7161	7520	7906
50°	6702	7087	7569
55°	6183	6593	7160
60°	5568	6016	6659
65°	4916	5350	6057
70°	4098	4556	5146
75°	3219	3639	4028
80°	2303	2560	2839
85°	1501	1501	1414



TEST NUMBER: P555961

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-80-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	4.1
10°-20°	478.0	11.4
20°-30°	698.6	16.7
30°-40°	793.0	19.0
40°-50°	765.5	18.3
50°-60°	631.5	15.1
60°-70°	420.5	10.1
70°-80°	188.2	4.5
80°-90°	33.7	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°	1346.8	32.2
0°-40°	2139.7	51.2
0°-60°	3536.7	84.6
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1805	1804	1798	1788	1782	171
15°	1701	1705	1701	1693	1682	480
25°	1511	1523	1530	1518	1505	692
35°	1215	1232	1288	1295	1290	761
45°	941	957	988	1033	1039	726
55°	659	670	703	742	763	588
65°	386	396	420	450	476	383
75°	155	163	175	183	194	169
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



TEST NUMBER: P555961

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-80-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.3	1807.3	1807.3	1807.3	1807.3
2.5°	1812.2	1812.9	1808.7	1797.6	1790.6
5°	1805.2	1804.5	1797.6	1787.9	1782.3
7.5°	1785.1	1786.5	1784.4	1770.5	1762.9
10°	1765.7	1766.3	1760.8	1749.7	1740.7
12.5°	1740.7	1740.0	1732.3	1726.8	1712.2
15°	1701.1	1705.2	1701.1	1693.4	1681.6
17.5°	1662.9	1662.9	1665.7	1652.5	1643.5
20°	1619.8	1621.9	1621.9	1611.5	1601.1
22.5°	1569.9	1576.1	1578.2	1567.1	1554.6
25°	1510.8	1522.6	1529.6	1518.5	1505.3
27.5°	1439.3	1457.4	1478.2	1469.9	1455.3
30°	1359.5	1385.9	1420.6	1413.6	1403.2
32.5°	1283.8	1310.2	1358.1	1355.3	1349.8
35°	1215.1	1231.7	1288.0	1294.9	1290.0
37.5°	1149.8	1165.1	1217.8	1233.8	1229.6
40°	1081.1	1097.7	1139.4	1167.8	1169.2
42.5°	1013.0	1029.0	1063.0	1104.0	1104.0
45°	940.8	956.8	988.0	1033.1	1038.7
47.5°	870.0	886.6	917.2	962.3	971.4
50°	800.5	815.8	846.4	890.1	904.0
52.5°	728.3	745.0	774.9	815.1	835.3
55°	658.9	670.0	702.6	741.5	763.1
57.5°	586.7	597.1	633.9	667.2	689.5
60°	517.3	530.5	558.9	592.9	618.6
62.5°	450.6	464.5	488.8	518.7	547.8
65°	386.0	396.5	420.1	449.9	475.6
67.5°	323.6	332.6	356.2	377.0	404.1
70°	260.4	272.2	289.5	309.7	327.0
72.5°	209.7	214.5	229.1	243.7	261.8
75°	154.8	163.2	175.0	183.3	193.7
77.5°	111.1	116.0	122.9	129.8	139.6
80°	74.3	76.4	82.6	84.0	91.6
82.5°	45.1	46.5	47.9	48.6	51.4
85°	24.3	24.3	24.3	22.9	22.9
87.5°	13.9	13.9	11.8	9.7	6.9
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)