

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: P554677

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-86-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: P554677
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-LD4-2HI-35-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

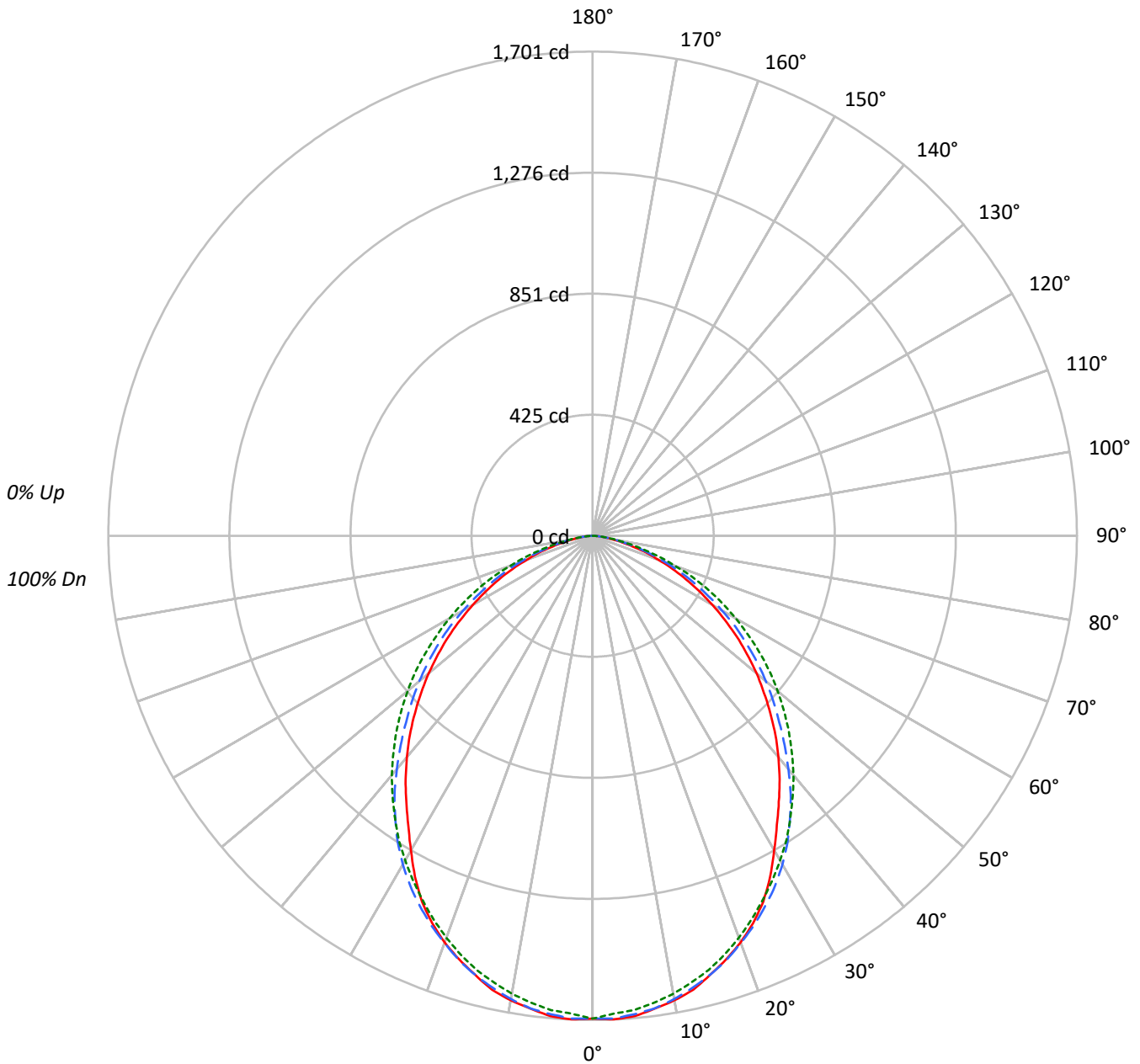
Lumens per Lamp: N/A
Luminaire Lumens: 3922.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P554677

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-86-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554677

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-86-EDD

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°	9129	9129	9129
5°	9153	9114	9037
10°	9056	9031	8928
15°	8895	8895	8793
20°	8707	8718	8606
25°	8420	8524	8389
30°	7929	8285	8184
35°	7492	7942	7954
40°	7128	7513	7709
45°	6720	7058	7419
50°	6291	6651	7104
55°	5803	6187	6719
60°	5226	5647	6250
65°	4614	5020	5685
70°	3846	4275	4829
75°	3021	3414	3780
80°	2160	2402	2665
85°	1408	1408	1328



TEST NUMBER: P554677

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.1
10°-20°	448.6	11.4
20°-30°	655.6	16.7
30°-40°	744.2	19.0
40°-50°	718.4	18.3
50°-60°	592.6	15.1
60°-70°	394.6	10.1
70°-80°	176.6	4.5
80°-90°	31.6	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°	1263.9	32.2
0°-40°	2008.1	51.2
0°-60°	3319.2	84.6
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1694	1687	1678	1673	160
15°	1596	1600	1596	1589	1578	450
25°	1418	1429	1436	1425	1413	649
35°	1140	1156	1209	1215	1211	714
45°	883	898	927	970	975	681
55°	618	629	659	696	716	552
65°	362	372	394	422	446	359
75°	145	153	164	172	182	159
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



TEST NUMBER: P554677

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-86-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1700.7	1701.4	1697.5	1687.0	1680.5
5°	1694.2	1693.6	1687.0	1677.9	1672.7
7.5°	1675.3	1676.6	1674.7	1661.6	1654.5
10°	1657.1	1657.7	1652.5	1642.1	1633.6
12.5°	1633.6	1633.0	1625.8	1620.6	1606.9
15°	1596.5	1600.4	1596.5	1589.3	1578.2
17.5°	1560.6	1560.6	1563.2	1550.9	1542.4
20°	1520.2	1522.2	1522.2	1512.4	1502.6
22.5°	1473.3	1479.2	1481.1	1470.7	1459.0
25°	1417.9	1429.0	1435.5	1425.1	1412.7
27.5°	1350.8	1367.7	1387.3	1379.5	1365.8
30°	1275.9	1300.6	1333.2	1326.7	1316.9
32.5°	1204.8	1229.6	1274.6	1272.0	1266.7
35°	1140.3	1156.0	1208.8	1215.3	1210.7
37.5°	1079.1	1093.4	1142.9	1157.9	1154.0
40°	1014.6	1030.2	1069.3	1096.0	1097.3
42.5°	950.7	965.7	997.6	1036.1	1036.1
45°	882.9	897.9	927.3	969.6	974.8
47.5°	816.5	832.1	860.8	903.1	911.6
50°	751.3	765.7	794.3	835.4	848.4
52.5°	683.5	699.2	727.2	765.0	783.9
55°	618.4	628.8	659.4	695.9	716.1
57.5°	550.6	560.4	594.9	626.2	647.1
60°	485.5	497.8	524.6	556.5	580.6
62.5°	422.9	435.9	458.7	486.8	514.1
65°	362.3	372.1	394.2	422.2	446.4
67.5°	303.7	312.1	334.3	353.8	379.2
70°	244.4	255.4	271.7	290.6	306.9
72.5°	196.8	201.4	215.0	228.7	245.7
75°	145.3	153.1	164.2	172.0	181.8
77.5°	104.3	108.8	115.3	121.9	131.0
80°	69.7	71.7	77.5	78.8	86.0
82.5°	42.4	43.7	45.0	45.6	48.2
85°	22.8	22.8	22.8	21.5	21.5
87.5°	13.0	13.0	11.1	9.1	6.5
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)