

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: P554749

Luminaire Tested: **FUSL-12-2-LD4-2HI-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: P554749
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-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

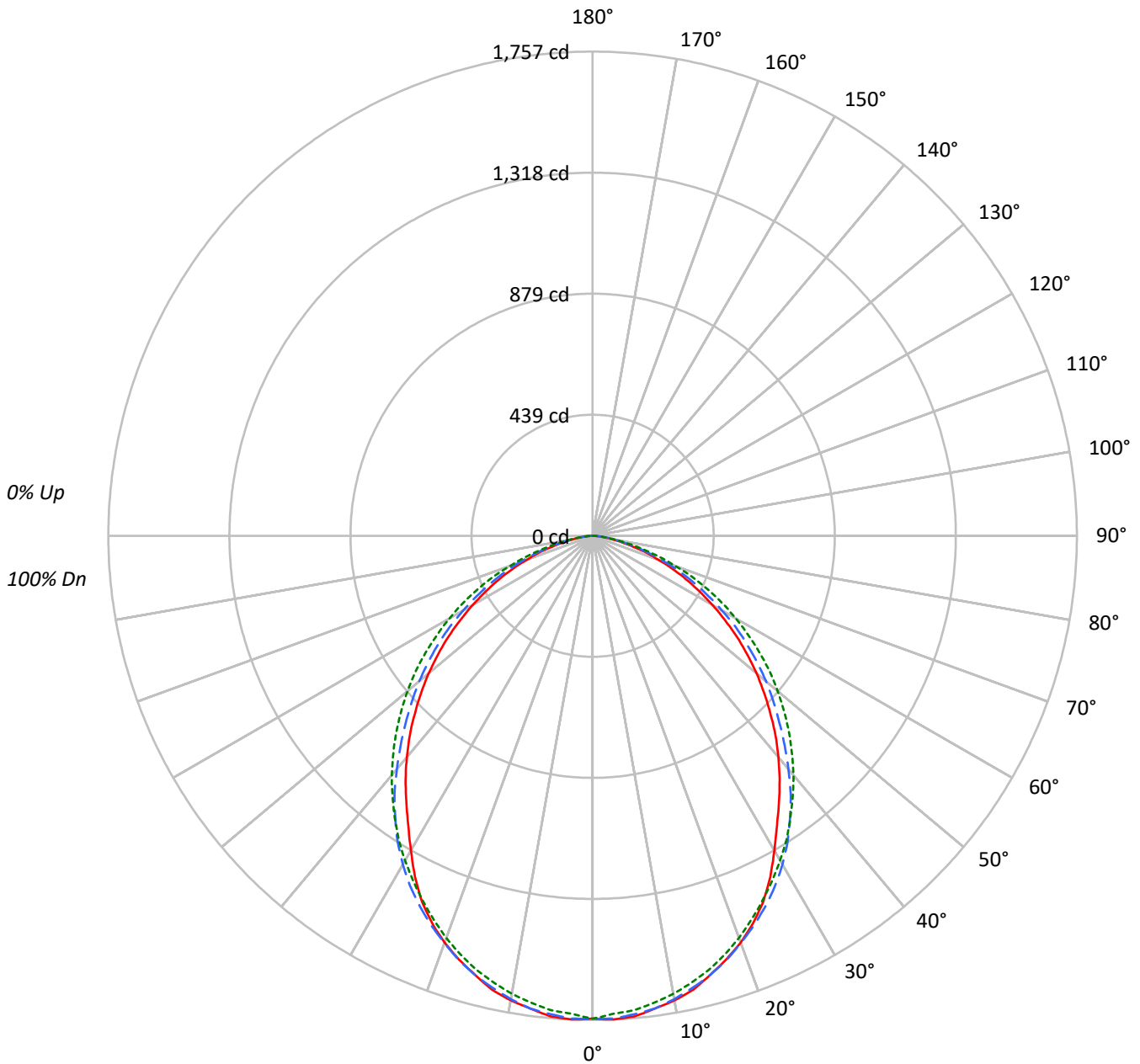
Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554749

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

Luminous Intensity Polar Plot





TEST NUMBER: P554749

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-80-96-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°	9431	9431	9431
5°	9457	9417	9336
10°	9356	9330	9224
15°	9190	9190	9085
20°	8995	9007	8891
25°	8699	8807	8667
30°	8192	8560	8456
35°	7740	8205	8218
40°	7364	7762	7965
45°	6943	7292	7665
50°	6499	6872	7339
55°	5995	6393	6943
60°	5398	5833	6456
65°	4767	5187	5873
70°	3973	4417	4990
75°	3121	3529	3905
80°	2232	2483	2755
85°	1457	1457	1371



TEST NUMBER: P554749

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	4.1
10°-20°	463.5	11.4
20°-30°	677.3	16.7
30°-40°	768.9	19.0
40°-50°	742.2	18.3
50°-60°	612.3	15.1
60°-70°	407.7	10.1
70°-80°	182.5	4.5
80°-90°	32.6	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°	1305.8	32.2
0°-40°	2074.7	51.2
0°-60°	3429.2	84.6
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1750	1750	1743	1734	1728	166
15°	1649	1653	1649	1642	1630	465
25°	1465	1476	1483	1472	1460	671
35°	1178	1194	1249	1256	1251	738
45°	912	928	958	1002	1007	704
55°	639	650	681	719	740	570
65°	374	384	407	436	461	371
75°	150	158	170	178	188	164
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



TEST NUMBER: P554749

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.4	1752.4	1752.4	1752.4	1752.4
2.5°	1757.1	1757.8	1753.7	1743.0	1736.2
5°	1750.4	1749.7	1743.0	1733.5	1728.1
7.5°	1730.8	1732.2	1730.2	1716.7	1709.3
10°	1712.0	1712.7	1707.3	1696.5	1687.8
12.5°	1687.8	1687.1	1679.7	1674.3	1660.2
15°	1649.4	1653.4	1649.4	1642.0	1630.5
17.5°	1612.4	1612.4	1615.0	1602.3	1593.5
20°	1570.6	1572.6	1572.6	1562.5	1552.4
22.5°	1522.1	1528.2	1530.2	1519.5	1507.3
25°	1464.9	1476.4	1483.1	1472.3	1459.5
27.5°	1395.6	1413.1	1433.3	1425.2	1411.1
30°	1318.2	1343.7	1377.4	1370.7	1360.6
32.5°	1244.8	1270.4	1316.8	1314.1	1308.7
35°	1178.1	1194.3	1248.8	1255.6	1250.8
37.5°	1114.8	1129.7	1180.8	1196.3	1192.3
40°	1048.2	1064.4	1104.8	1132.4	1133.7
42.5°	982.2	997.7	1030.7	1070.4	1070.4
45°	912.2	927.7	958.0	1001.7	1007.1
47.5°	843.5	859.7	889.3	933.1	941.8
50°	776.2	791.0	820.7	863.1	876.5
52.5°	706.2	722.4	751.3	790.4	809.9
55°	638.9	649.7	681.3	719.0	739.9
57.5°	568.9	579.0	614.6	647.0	668.5
60°	501.5	514.3	541.9	574.9	599.8
62.5°	436.9	450.4	473.9	502.9	531.2
65°	374.3	384.4	407.3	436.2	461.2
67.5°	313.7	322.5	345.4	365.6	391.8
70°	252.5	263.9	280.7	300.3	317.1
72.5°	203.3	208.0	222.2	236.3	253.8
75°	150.1	158.2	169.7	177.7	187.8
77.5°	107.7	112.4	119.2	125.9	135.3
80°	72.0	74.1	80.1	81.5	88.9
82.5°	43.8	45.1	46.5	47.1	49.8
85°	23.6	23.6	23.6	22.2	22.2
87.5°	13.5	13.5	11.4	9.4	6.7
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)