

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: P554759

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-87-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: P554759
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

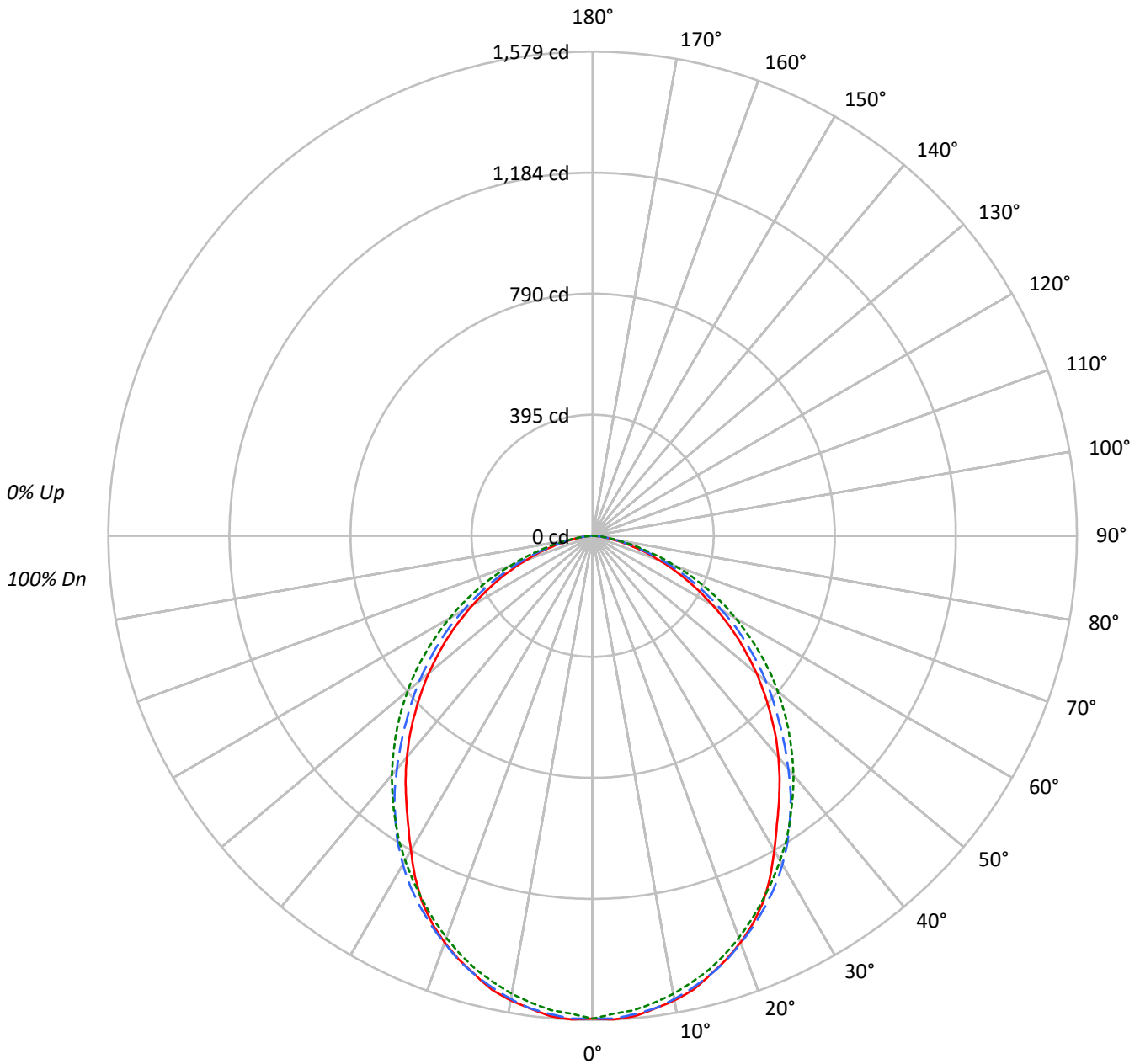
Lumens per Lamp: N/A
Luminaire Lumens: 3641.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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: P554759

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-81-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554759

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-81-87-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°	8474	8474	8474
5°	8497	8461	8390
10°	8407	8384	8288
15°	8258	8258	8163
20°	8083	8093	7990
25°	7817	7914	7788
30°	7361	7692	7598
35°	6955	7372	7385
40°	6617	6974	7157
45°	6239	6552	6888
50°	5840	6174	6594
55°	5387	5744	6238
60°	4851	5242	5802
65°	4283	4661	5277
70°	3569	3970	4483
75°	2805	3169	3510
80°	2005	2232	2476
85°	1309	1309	1235



TEST NUMBER: P554759

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-81-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	4.1
10°-20°	416.5	11.4
20°-30°	608.6	16.7
30°-40°	690.9	19.0
40°-50°	666.9	18.3
50°-60°	550.2	15.1
60°-70°	366.4	10.1
70°-80°	163.9	4.5
80°-90°	29.3	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°	1173.4	32.2
0°-40°	1864.3	51.2
0°-60°	3081.3	84.6
0°-90°	3641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1573	1572	1566	1558	1553	149
15°	1482	1486	1482	1475	1465	418
25°	1316	1327	1333	1323	1312	603
35°	1059	1073	1122	1128	1124	663
45°	820	834	861	900	905	632
55°	574	584	612	646	665	512
65°	336	345	366	392	414	333
75°	135	142	152	160	169	148
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



TEST NUMBER: P554759

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-81-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.6	1574.6	1574.6	1574.6	1574.6
2.5°	1578.9	1579.5	1575.8	1566.2	1560.1
5°	1572.8	1572.2	1566.2	1557.7	1552.9
7.5°	1555.3	1556.5	1554.7	1542.6	1535.9
10°	1538.3	1538.9	1534.1	1524.4	1516.6
12.5°	1516.6	1516.0	1509.3	1504.5	1491.8
15°	1482.1	1485.7	1482.1	1475.4	1465.1
17.5°	1448.8	1448.8	1451.2	1439.7	1431.9
20°	1411.3	1413.1	1413.1	1404.0	1395.0
22.5°	1367.8	1373.2	1375.0	1365.3	1354.4
25°	1316.3	1326.6	1332.7	1323.0	1311.5
27.5°	1254.0	1269.8	1287.9	1280.6	1267.9
30°	1184.5	1207.4	1237.7	1231.6	1222.6
32.5°	1118.5	1141.5	1183.2	1180.8	1176.0
35°	1058.6	1073.1	1122.1	1128.2	1124.0
37.5°	1001.8	1015.1	1061.1	1075.0	1071.3
40°	941.9	956.4	992.7	1017.5	1018.7
42.5°	882.6	896.5	926.2	961.8	961.8
45°	819.7	833.6	860.8	900.1	905.0
47.5°	758.0	772.5	799.1	838.4	846.3
50°	697.5	710.8	737.4	775.5	787.6
52.5°	634.6	649.1	675.1	710.2	727.7
55°	574.1	583.8	612.2	646.1	664.8
57.5°	511.2	520.2	552.3	581.3	600.7
60°	450.7	462.2	487.0	516.6	539.0
62.5°	392.6	404.7	425.9	451.9	477.3
65°	336.3	345.4	366.0	392.0	414.4
67.5°	281.9	289.8	310.3	328.5	352.1
70°	226.8	237.1	252.3	269.8	284.9
72.5°	182.7	186.9	199.6	212.3	228.1
75°	134.9	142.2	152.4	159.7	168.8
77.5°	96.8	101.0	107.1	113.1	121.6
80°	64.7	66.5	72.0	73.2	79.9
82.5°	39.3	40.5	41.7	42.3	44.8
85°	21.2	21.2	21.2	20.0	20.0
87.5°	12.1	12.1	10.3	8.5	6.0
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)