

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: P554860

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-96-EDD-90**

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: P554860
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-50-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

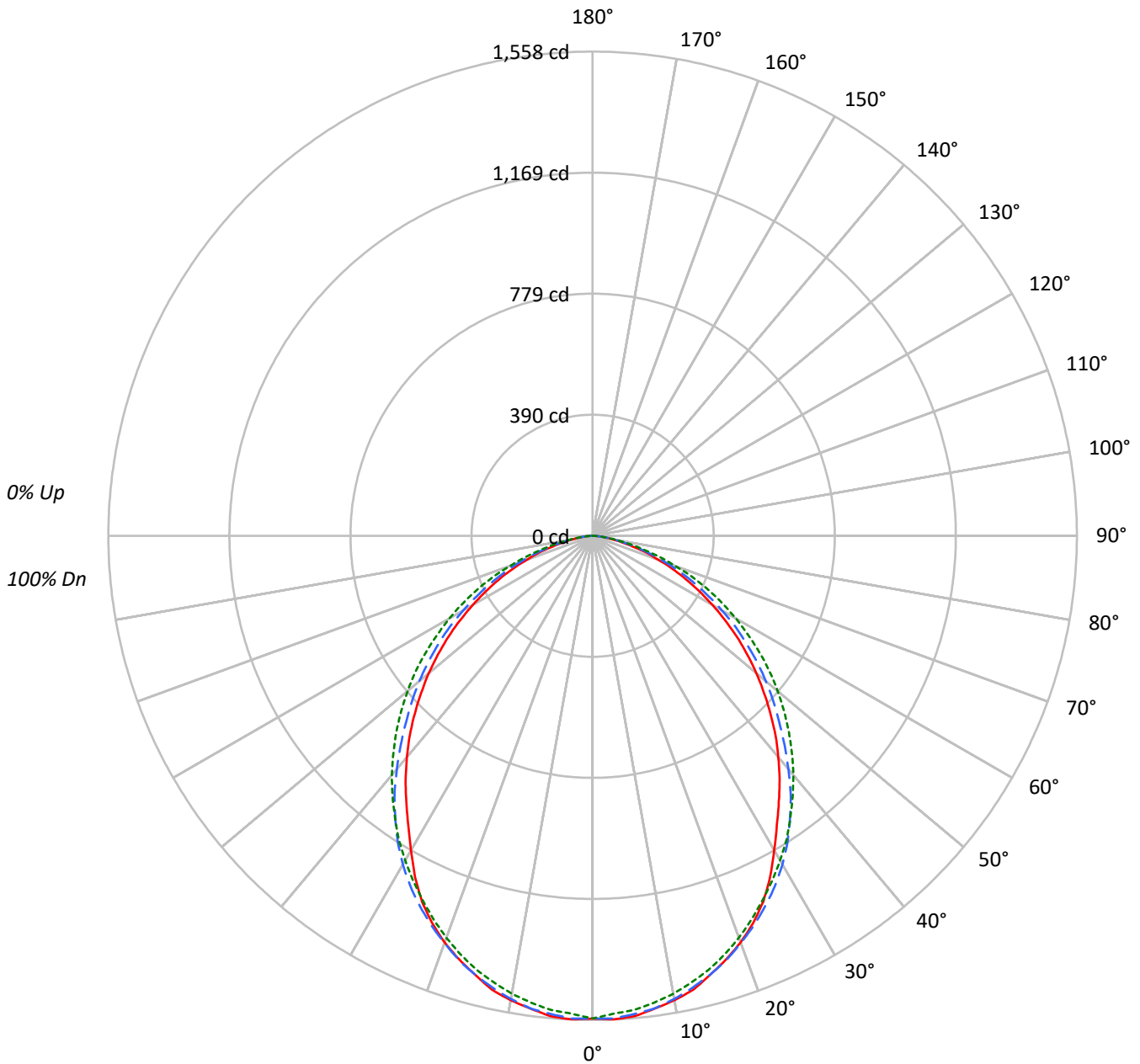
Lumens per Lamp: N/A
Luminaire Lumens: 3592.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554860

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-93-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554860

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-93-96-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				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°	8360	8360	8360
5°	8383	8347	8277
10°	8294	8271	8177
15°	8147	8147	8053
20°	7974	7985	7882
25°	7712	7807	7683
30°	7262	7588	7495
35°	6862	7273	7285
40°	6528	6880	7061
45°	6155	6463	6795
50°	5761	6091	6506
55°	5315	5667	6154
60°	4786	5171	5723
65°	4225	4599	5206
70°	3522	3917	4423
75°	2768	3127	3462
80°	1980	2201	2442
85°	1291	1291	1216



TEST NUMBER: P554860

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-93-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	4.1
10°-20°	410.9	11.4
20°-30°	600.4	16.7
30°-40°	681.6	19.0
40°-50°	658.0	18.3
50°-60°	542.8	15.1
60°-70°	361.4	10.1
70°-80°	161.7	4.5
80°-90°	28.9	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°	1157.6	32.2
0°-40°	1839.2	51.2
0°-60°	3039.9	84.6
0°-90°	3592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1552	1551	1545	1537	1532	147
15°	1462	1466	1462	1456	1445	412
25°	1299	1309	1315	1305	1294	595
35°	1044	1059	1107	1113	1109	654
45°	809	822	849	888	893	624
55°	566	576	604	637	656	505
65°	332	341	361	387	409	329
75°	133	140	150	158	166	146
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



TEST NUMBER: P554860

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-93-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1557.6	1558.2	1554.6	1545.1	1539.1
5°	1551.7	1551.1	1545.1	1536.7	1532.0
7.5°	1534.3	1535.5	1533.8	1521.8	1515.3
10°	1517.6	1518.2	1513.5	1503.9	1496.2
12.5°	1496.2	1495.6	1489.0	1484.2	1471.7
15°	1462.1	1465.7	1462.1	1455.6	1445.4
17.5°	1429.3	1429.3	1431.7	1420.4	1412.6
20°	1392.3	1394.1	1394.1	1385.2	1376.2
22.5°	1349.3	1354.7	1356.5	1347.0	1336.2
25°	1298.6	1308.8	1314.7	1305.2	1293.8
27.5°	1237.1	1252.7	1270.6	1263.4	1250.9
30°	1168.5	1191.2	1221.0	1215.1	1206.1
32.5°	1103.5	1126.1	1167.3	1164.9	1160.2
35°	1044.4	1058.7	1107.0	1113.0	1108.8
37.5°	988.3	1001.4	1046.8	1060.5	1056.9
40°	929.2	943.5	979.3	1003.8	1005.0
42.5°	870.7	884.4	913.7	948.9	948.9
45°	808.7	822.4	849.2	888.0	892.8
47.5°	747.8	762.1	788.4	827.2	834.9
50°	688.1	701.2	727.5	765.1	777.0
52.5°	626.0	640.4	666.0	700.6	717.9
55°	566.4	575.9	604.0	637.4	655.9
57.5°	504.3	513.2	544.9	573.5	592.6
60°	444.6	455.9	480.4	509.7	531.7
62.5°	387.3	399.3	420.1	445.8	470.9
65°	331.8	340.8	361.1	386.7	408.8
67.5°	278.1	285.9	306.2	324.1	347.3
70°	223.8	233.9	248.9	266.2	281.1
72.5°	180.2	184.4	196.9	209.5	225.0
75°	133.1	140.2	150.4	157.6	166.5
77.5°	95.5	99.7	105.6	111.6	120.0
80°	63.9	65.6	71.0	72.2	78.8
82.5°	38.8	40.0	41.2	41.8	44.2
85°	20.9	20.9	20.9	19.7	19.7
87.5°	11.9	11.9	10.1	8.4	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)