

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: P555811

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-85-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: P555811
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-LD4-3LO-40-UNV-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

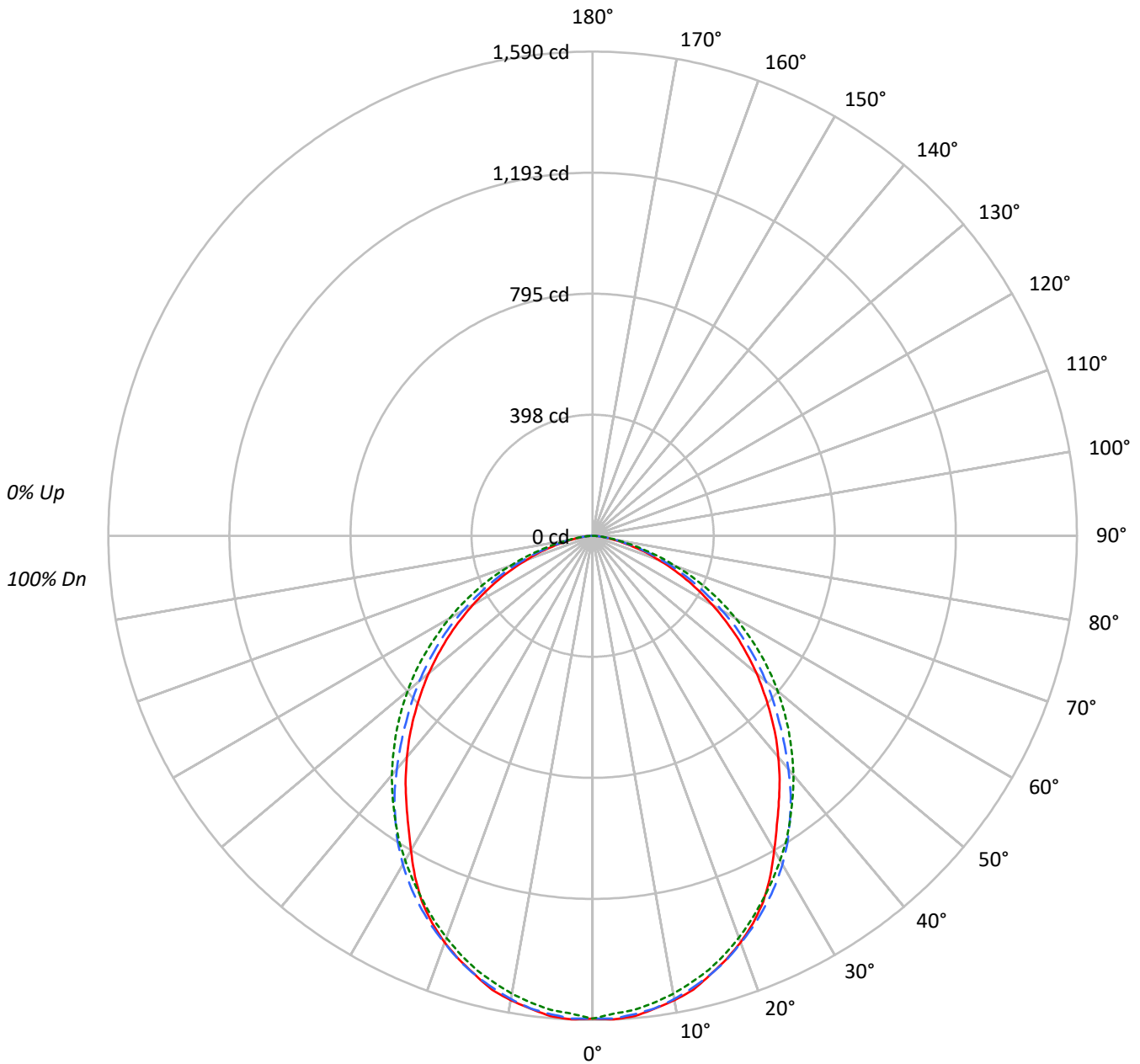
Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555811

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555811

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-85-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°	8533	8533	8533
5°	8555	8519	8447
10°	8465	8441	8345
15°	8315	8315	8220
20°	8139	8149	8045
25°	7871	7968	7842
30°	7411	7745	7650
35°	7003	7424	7435
40°	6662	7022	7206
45°	6282	6597	6935
50°	5880	6217	6640
55°	5423	5784	6281
60°	4885	5278	5842
65°	4313	4693	5313
70°	3594	3997	4515
75°	2824	3192	3533
80°	2021	2247	2492
85°	1315	1315	1241



TEST NUMBER: P555811

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.1
10°-20°	419.4	11.4
20°-30°	612.8	16.7
30°-40°	695.6	19.0
40°-50°	671.5	18.3
50°-60°	553.9	15.1
60°-70°	368.9	10.1
70°-80°	165.1	4.5
80°-90°	29.5	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°	1181.4	32.2
0°-40°	1877.1	51.2
0°-60°	3102.5	84.6
0°-90°	3666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1584	1583	1577	1568	1564	150
15°	1492	1496	1492	1486	1475	421
25°	1325	1336	1342	1332	1320	607
35°	1066	1080	1130	1136	1132	668
45°	825	839	867	906	911	637
55°	578	588	616	650	669	516
65°	339	348	368	395	417	336
75°	136	143	154	161	170	149
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



TEST NUMBER: P555811

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1589.7	1590.3	1586.7	1576.9	1570.8
5°	1583.6	1583.0	1576.9	1568.4	1563.5
7.5°	1566.0	1567.2	1565.4	1553.2	1546.5
10°	1548.9	1549.5	1544.6	1534.9	1527.0
12.5°	1527.0	1526.4	1519.7	1514.8	1502.0
15°	1492.3	1495.9	1492.3	1485.6	1475.2
17.5°	1458.8	1458.8	1461.2	1449.6	1441.7
20°	1421.0	1422.8	1422.8	1413.7	1404.6
22.5°	1377.1	1382.6	1384.5	1374.7	1363.7
25°	1325.4	1335.7	1341.8	1332.1	1320.5
27.5°	1262.6	1278.5	1296.7	1289.4	1276.6
30°	1192.6	1215.7	1246.2	1240.1	1231.0
32.5°	1126.2	1149.3	1191.4	1188.9	1184.1
35°	1065.9	1080.5	1129.9	1135.9	1131.7
37.5°	1008.6	1022.0	1068.3	1082.3	1078.7
40°	948.3	963.0	999.5	1024.5	1025.7
42.5°	888.7	902.7	932.5	968.4	968.4
45°	825.3	839.3	866.7	906.3	911.2
47.5°	763.2	777.8	804.6	844.2	852.1
50°	702.3	715.7	742.5	780.8	793.0
52.5°	638.9	653.5	679.7	715.1	732.7
55°	578.0	587.8	616.4	650.5	669.4
57.5°	514.7	523.8	556.1	585.3	604.8
60°	453.8	465.3	490.3	520.2	542.7
62.5°	395.3	407.5	428.8	455.0	480.6
65°	338.7	347.8	368.5	394.7	417.2
67.5°	283.8	291.8	312.5	330.7	354.5
70°	228.4	238.8	254.0	271.7	286.9
72.5°	183.9	188.2	201.0	213.8	229.6
75°	135.8	143.1	153.5	160.8	169.9
77.5°	97.5	101.7	107.8	113.9	122.4
80°	65.2	67.0	72.5	73.7	80.4
82.5°	39.6	40.8	42.0	42.6	45.1
85°	21.3	21.3	21.3	20.1	20.1
87.5°	12.2	12.2	10.4	8.5	6.1
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)