

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: P556076

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-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: P556076
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-LD4-3STD-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

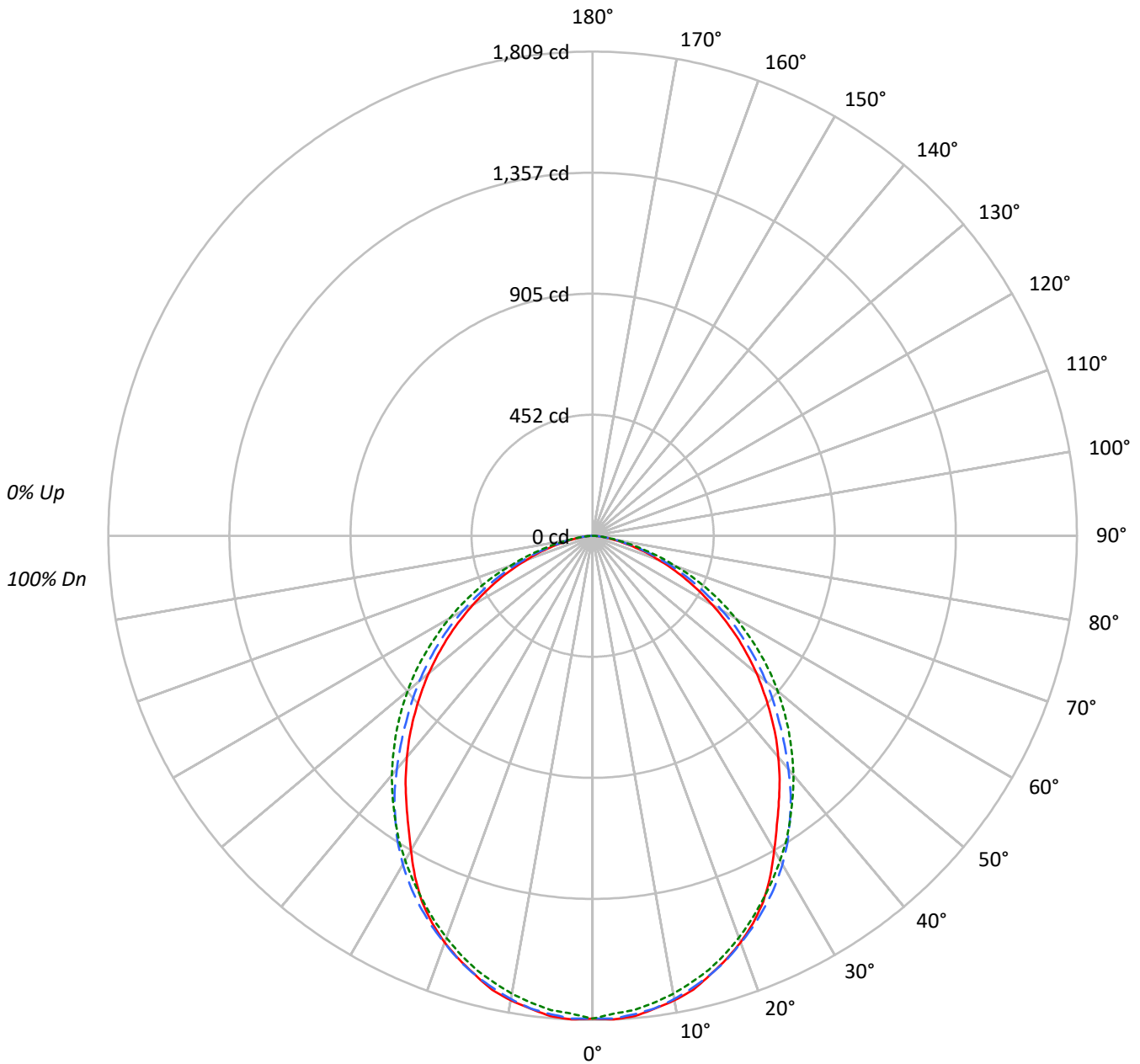
Lumens per Lamp: N/A
Luminaire Lumens: 4171.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

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Luminous Intensity Polar Plot





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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°	9708	9708	9708
5°	9734	9693	9611
10°	9631	9604	9494
15°	9460	9460	9352
20°	9259	9271	9152
25°	8954	9066	8922
30°	8433	8812	8703
35°	7968	8446	8460
40°	7581	7990	8199
45°	7147	7505	7891
50°	6690	7073	7555
55°	6170	6580	7146
60°	5557	6005	6647
65°	4907	5340	6045
70°	4090	4548	5136
75°	3213	3631	4020
80°	2297	2557	2836
85°	1501	1501	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	4.1
10°-20°	477.1	11.4
20°-30°	697.2	16.7
30°-40°	791.4	19.0
40°-50°	764.0	18.3
50°-60°	630.3	15.1
60°-70°	419.7	10.1
70°-80°	187.8	4.5
80°-90°	33.6	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°	1344.2	32.2
0°-40°	2135.6	51.2
0°-60°	3529.9	84.6
0°-90°	4171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1802	1801	1794	1784	1779	171
15°	1698	1702	1698	1690	1678	479
25°	1508	1520	1527	1516	1502	691
35°	1213	1229	1286	1292	1288	760
45°	939	955	986	1031	1037	724
55°	658	669	701	740	762	587
65°	385	396	419	449	475	382
75°	154	163	175	183	193	169
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1803.8	1803.8	1803.8	1803.8	1803.8
2.5°	1808.7	1809.4	1805.2	1794.1	1787.2
5°	1801.8	1801.1	1794.1	1784.4	1778.9
7.5°	1781.7	1783.1	1781.0	1767.1	1759.5
10°	1762.3	1763.0	1757.4	1746.3	1737.3
12.5°	1737.3	1736.6	1729.0	1723.5	1708.9
15°	1697.8	1702.0	1697.8	1690.2	1678.4
17.5°	1659.7	1659.7	1662.5	1649.3	1640.3
20°	1616.7	1618.8	1618.8	1608.4	1598.0
22.5°	1566.8	1573.1	1575.2	1564.1	1551.6
25°	1507.9	1519.7	1526.7	1515.6	1502.4
27.5°	1436.6	1454.6	1475.4	1467.1	1452.5
30°	1356.9	1383.2	1417.9	1410.9	1400.5
32.5°	1281.3	1307.7	1355.5	1352.7	1347.2
35°	1212.7	1229.4	1285.5	1292.4	1287.6
37.5°	1147.6	1162.8	1215.5	1231.4	1227.3
40°	1079.0	1095.6	1137.2	1165.6	1167.0
42.5°	1011.1	1027.0	1061.0	1101.9	1101.9
45°	939.0	954.9	986.1	1031.2	1036.7
47.5°	868.3	884.9	915.4	960.5	969.5
50°	799.0	814.3	844.8	888.4	902.3
52.5°	726.9	743.6	773.4	813.6	833.7
55°	657.6	668.7	701.3	740.1	761.6
57.5°	585.6	596.0	632.7	666.0	688.1
60°	516.3	529.4	557.9	591.8	617.5
62.5°	449.7	463.6	487.9	517.7	546.8
65°	385.3	395.7	419.3	449.1	474.7
67.5°	322.9	331.9	355.5	376.3	403.3
70°	259.9	271.7	289.0	309.1	326.4
72.5°	209.3	214.1	228.7	243.2	261.3
75°	154.5	162.9	174.6	182.9	193.3
77.5°	110.9	115.7	122.7	129.6	139.3
80°	74.1	76.2	82.5	83.9	91.5
82.5°	45.0	46.4	47.8	48.5	51.3
85°	24.3	24.3	24.3	22.9	22.9
87.5°	13.9	13.9	11.8	9.7	6.9
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)