

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: P554811

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-94-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: P554811
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-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

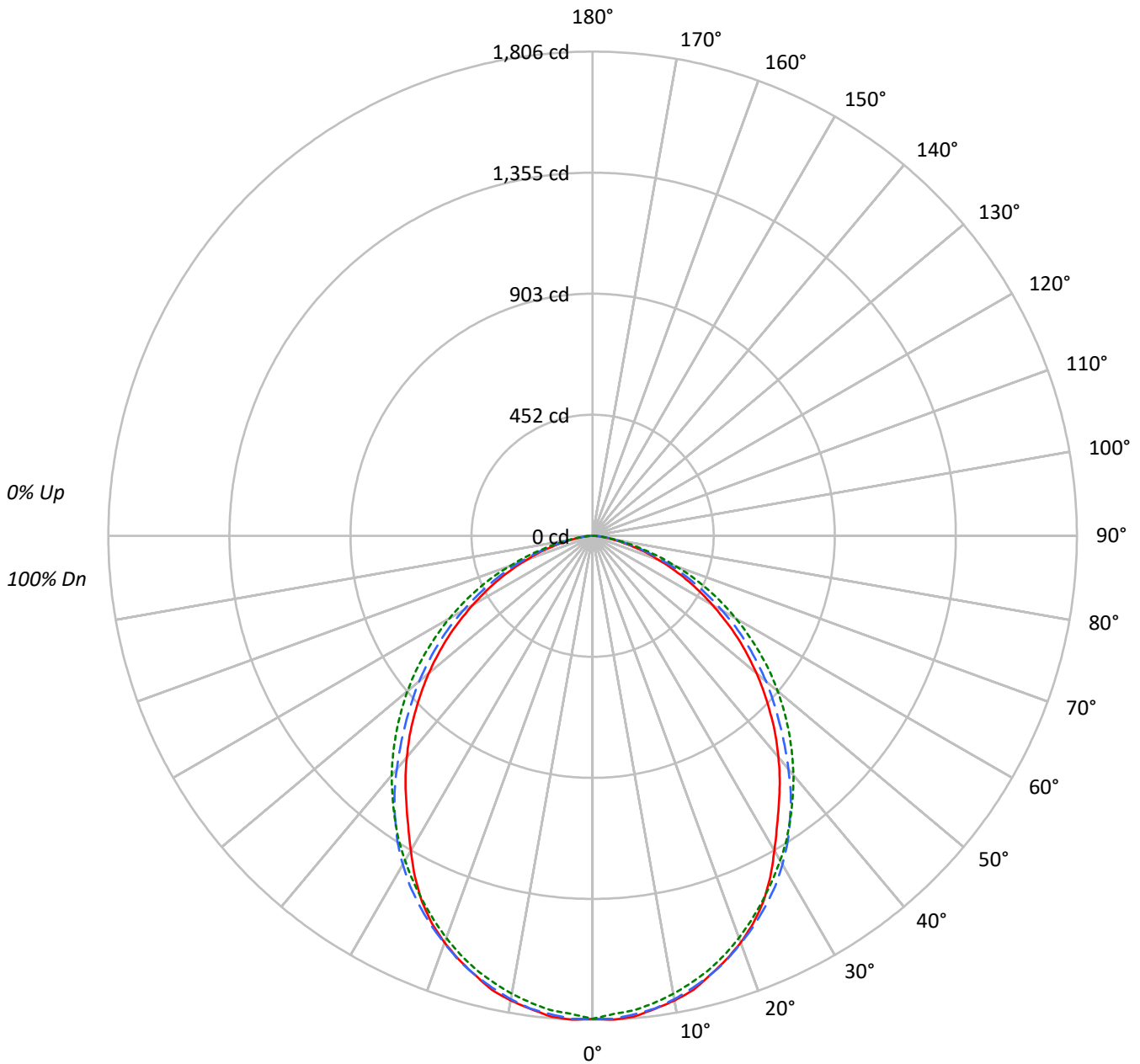
Lumens per Lamp: N/A
Luminaire Lumens: 4166.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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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°	9697	9697	9697
5°	9722	9681	9599
10°	9619	9593	9483
15°	9449	9449	9341
20°	9249	9261	9141
25°	8944	9055	8911
30°	8422	8801	8694
35°	7958	8436	8449
40°	7572	7980	8189
45°	7139	7496	7881
50°	6682	7064	7546
55°	6164	6573	7138
60°	5551	5998	6638
65°	4900	5333	6038
70°	4085	4541	5130
75°	3211	3627	4015
80°	2297	2554	2833
85°	1494	1494	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	4.1
10°-20°	476.5	11.4
20°-30°	696.4	16.7
30°-40°	790.5	19.0
40°-50°	763.1	18.3
50°-60°	629.5	15.1
60°-70°	419.2	10.1
70°-80°	187.6	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°	1342.6	32.2
0°-40°	2133.1	51.2
0°-60°	3525.7	84.6
0°-90°	4166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1800	1799	1792	1782	1777	170
15°	1696	1700	1696	1688	1676	478
25°	1506	1518	1525	1514	1501	690
35°	1211	1228	1284	1291	1286	759
45°	938	954	985	1030	1036	724
55°	657	668	700	739	761	586
65°	385	395	419	448	474	382
75°	154	163	174	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°	1801.7	1801.7	1801.7	1801.7	1801.7
2.5°	1806.5	1807.2	1803.1	1792.0	1785.1
5°	1799.6	1798.9	1792.0	1782.3	1776.8
7.5°	1779.5	1780.9	1778.8	1765.0	1757.4
10°	1760.2	1760.9	1755.3	1744.2	1735.2
12.5°	1735.2	1734.5	1726.9	1721.4	1706.9
15°	1695.8	1699.9	1695.8	1688.2	1676.4
17.5°	1657.7	1657.7	1660.5	1647.3	1638.3
20°	1614.8	1616.9	1616.9	1606.5	1596.1
22.5°	1565.0	1571.2	1573.3	1562.2	1549.7
25°	1506.1	1517.9	1524.8	1513.7	1500.6
27.5°	1434.8	1452.8	1473.6	1465.3	1450.8
30°	1355.2	1381.5	1416.2	1409.2	1398.9
32.5°	1279.8	1306.1	1353.9	1351.1	1345.6
35°	1211.3	1227.9	1284.0	1290.9	1286.0
37.5°	1146.2	1161.4	1214.0	1230.0	1225.8
40°	1077.7	1094.3	1135.8	1164.2	1165.6
42.5°	1009.9	1025.8	1059.7	1100.5	1100.5
45°	937.9	953.8	984.9	1029.9	1035.5
47.5°	867.3	883.9	914.3	959.3	968.3
50°	798.1	813.3	843.7	887.3	901.2
52.5°	726.1	742.7	772.4	812.6	832.7
55°	656.9	667.9	700.5	739.2	760.7
57.5°	584.9	595.3	631.9	665.2	687.3
60°	515.7	528.8	557.2	591.1	616.7
62.5°	449.2	463.1	487.3	517.0	546.1
65°	384.8	395.2	418.8	448.5	474.1
67.5°	322.5	331.5	355.1	375.8	402.8
70°	259.6	271.3	288.6	308.7	326.0
72.5°	209.0	213.9	228.4	242.9	260.9
75°	154.4	162.7	174.4	182.7	193.1
77.5°	110.7	115.6	122.5	129.4	139.1
80°	74.1	76.1	82.4	83.8	91.4
82.5°	45.0	46.4	47.8	48.5	51.2
85°	24.2	24.2	24.2	22.8	22.8
87.5°	13.8	13.8	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)