

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: P554859

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-93-94-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: P554859
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

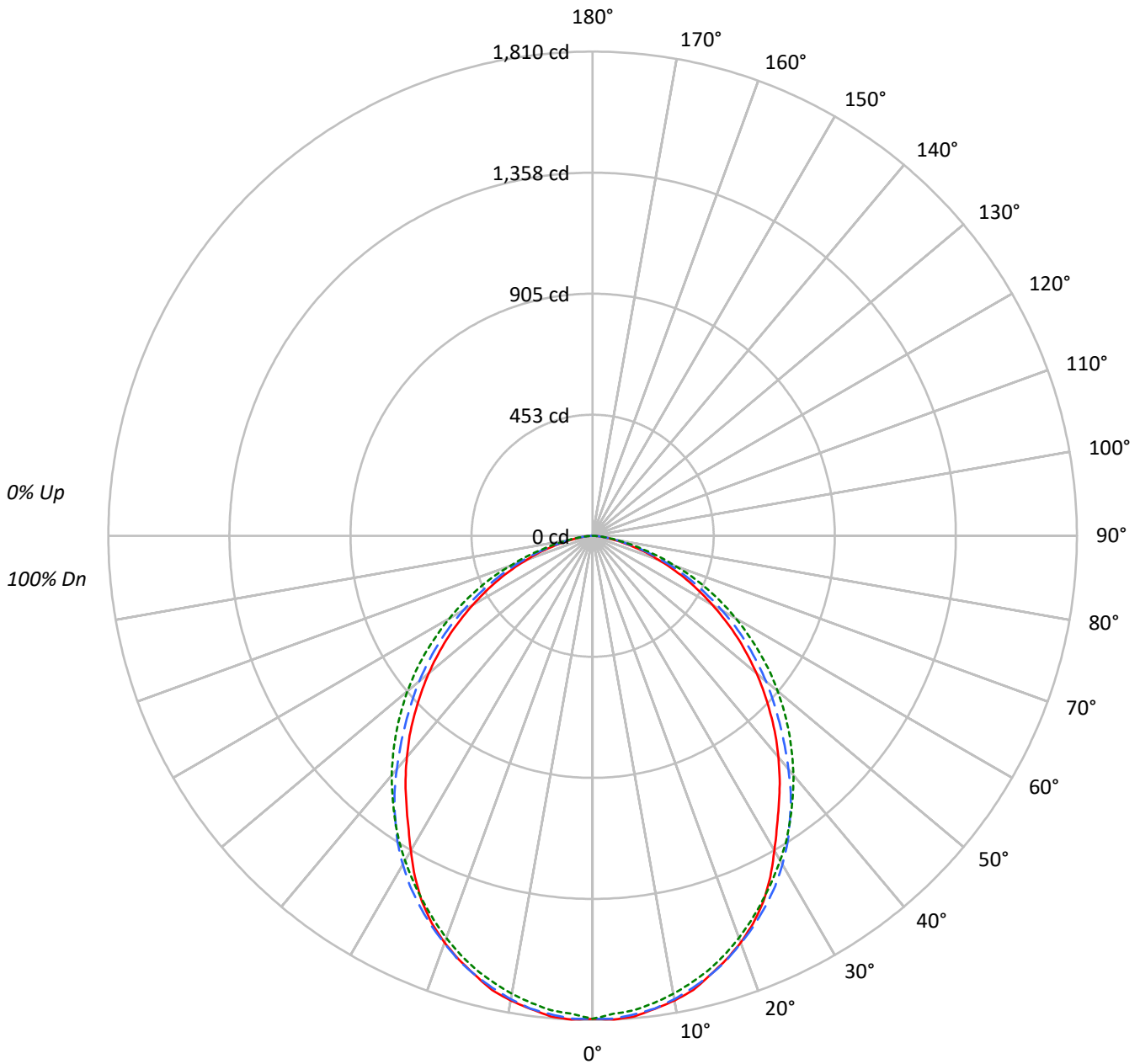
Lumens per Lamp: N/A
Luminaire Lumens: 4175.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9718	9718	9718
5°	9743	9702	9620
10°	9640	9613	9504
15°	9469	9469	9361
20°	9269	9281	9161
25°	8963	9074	8930
30°	8441	8820	8712
35°	7976	8454	8468
40°	7588	7997	8207
45°	7154	7513	7898
50°	6697	7080	7562
55°	6177	6587	7153
60°	5563	6011	6652
65°	4912	5345	6052
70°	4093	4552	5141
75°	3217	3635	4024
80°	2300	2557	2839
85°	1501	1501	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	4.1
10°-20°	477.6	11.4
20°-30°	697.9	16.7
30°-40°	792.2	19.0
40°-50°	764.7	18.3
50°-60°	630.9	15.1
60°-70°	420.1	10.1
70°-80°	188.0	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°	1345.5	32.2
0°-40°	2137.7	51.2
0°-60°	3533.3	84.6
0°-90°	4175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1804	1803	1796	1786	1781	171
15°	1700	1704	1700	1692	1680	479
25°	1509	1521	1528	1517	1504	691
35°	1214	1230	1287	1294	1289	761
45°	940	956	987	1032	1038	725
55°	658	669	702	741	762	588
65°	386	396	420	450	475	382
75°	155	163	175	183	194	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°	1805.6	1805.6	1805.6	1805.6	1805.6
2.5°	1810.4	1811.1	1807.0	1795.9	1788.9
5°	1803.5	1802.8	1795.9	1786.2	1780.6
7.5°	1783.4	1784.8	1782.7	1768.8	1761.2
10°	1764.0	1764.7	1759.1	1748.0	1739.0
12.5°	1739.0	1738.3	1730.7	1725.1	1710.5
15°	1699.5	1703.6	1699.5	1691.8	1680.0
17.5°	1661.3	1661.3	1664.1	1650.9	1641.9
20°	1618.3	1620.4	1620.4	1610.0	1599.6
22.5°	1568.4	1574.6	1576.7	1565.6	1553.1
25°	1509.4	1521.2	1528.1	1517.0	1503.8
27.5°	1437.9	1456.0	1476.8	1468.5	1453.9
30°	1358.2	1384.5	1419.2	1412.3	1401.9
32.5°	1282.6	1308.9	1356.8	1354.0	1348.5
35°	1213.9	1230.5	1286.7	1293.7	1288.8
37.5°	1148.7	1164.0	1216.7	1232.6	1228.5
40°	1080.0	1096.7	1138.3	1166.7	1168.1
42.5°	1012.0	1028.0	1062.0	1102.9	1102.9
45°	939.9	955.9	987.1	1032.2	1037.7
47.5°	869.1	885.8	916.3	961.4	970.4
50°	799.8	815.0	845.6	889.3	903.1
52.5°	727.6	744.3	774.1	814.3	834.5
55°	658.3	669.4	702.0	740.8	762.3
57.5°	586.1	596.5	633.3	666.6	688.8
60°	516.8	530.0	558.4	592.4	618.0
62.5°	450.2	464.1	488.3	518.2	547.3
65°	385.7	396.1	419.7	449.5	475.2
67.5°	323.2	332.3	355.8	376.7	403.7
70°	260.1	271.9	289.3	309.4	326.7
72.5°	209.5	214.3	228.9	243.5	261.5
75°	154.7	163.0	174.8	183.1	193.5
77.5°	111.0	115.8	122.8	129.7	139.4
80°	74.2	76.3	82.5	83.9	91.6
82.5°	45.1	46.5	47.9	48.6	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)