

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: P554813

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-96-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: P554813
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-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

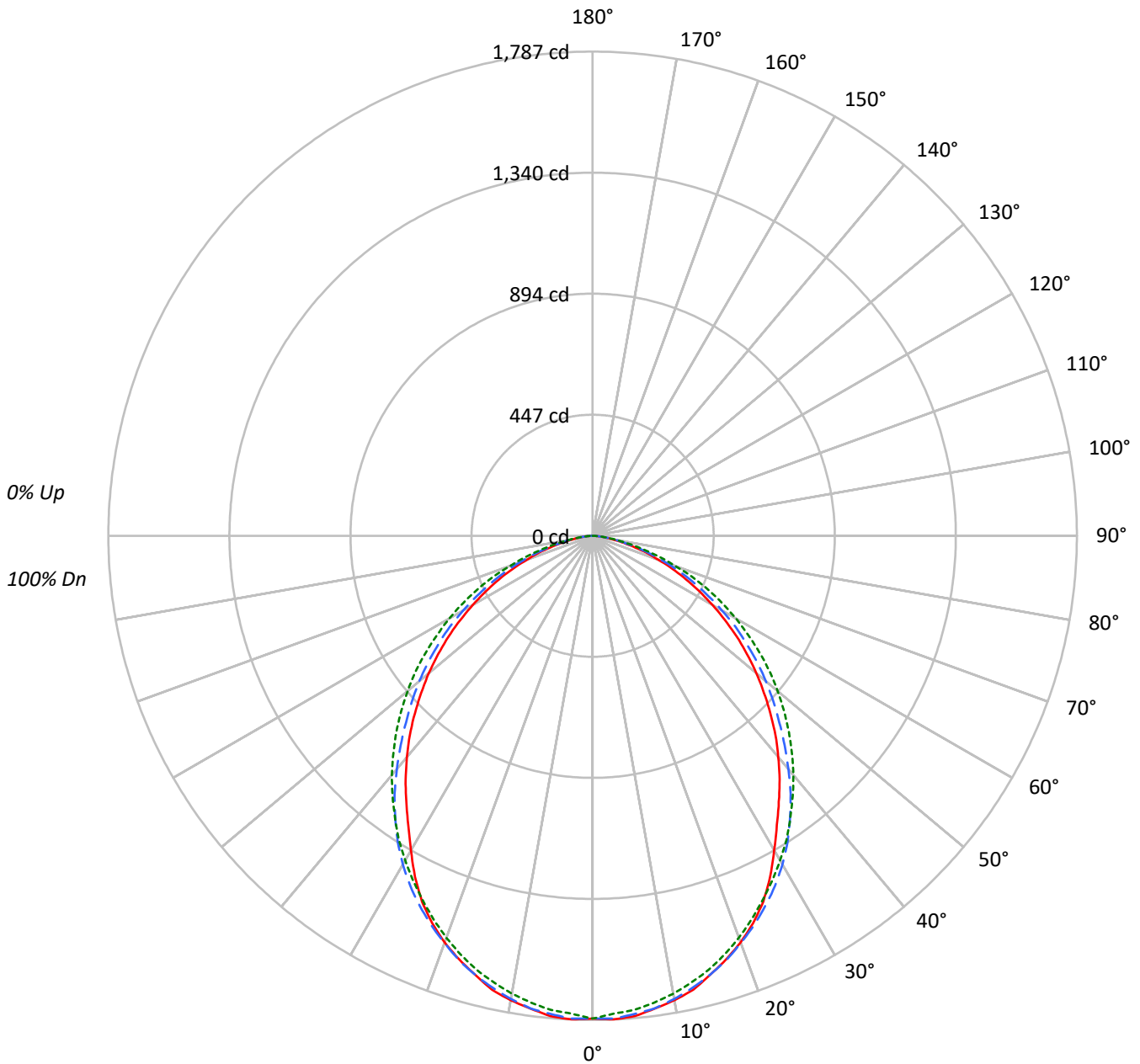
Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	9590	9590	9590
5°	9615	9574	9493
10°	9513	9487	9378
15°	9344	9344	9238
20°	9147	9158	9041
25°	8845	8955	8812
30°	8329	8703	8597
35°	7870	8343	8356
40°	7488	7892	8098
45°	7059	7414	7794
50°	6608	6986	7462
55°	6095	6500	7059
60°	5490	5931	6565
65°	4847	5273	5971
70°	4039	4491	5073
75°	3173	3587	3972
80°	2269	2526	2802
85°	1482	1482	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	4.1
10°-20°	471.3	11.4
20°-30°	688.7	16.7
30°-40°	781.8	19.0
40°-50°	754.7	18.3
50°-60°	622.6	15.1
60°-70°	414.6	10.1
70°-80°	185.5	4.5
80°-90°	33.2	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°	1327.8	32.2
0°-40°	2109.5	51.2
0°-60°	3486.7	84.6
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1780	1779	1772	1763	1757	168
15°	1677	1681	1677	1670	1658	473
25°	1490	1501	1508	1497	1484	682
35°	1198	1214	1270	1277	1272	751
45°	928	943	974	1019	1024	716
55°	650	661	693	731	752	580
65°	381	391	414	444	469	377
75°	153	161	172	181	191	167
85°	24	24	24	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	1786.6	1787.3	1783.2	1772.2	1765.4
5°	1779.7	1779.1	1772.2	1762.6	1757.2
7.5°	1759.9	1761.3	1759.2	1745.5	1738.0
10°	1740.7	1741.4	1735.9	1725.0	1716.1
12.5°	1716.1	1715.4	1707.9	1702.4	1688.0
15°	1677.1	1681.2	1677.1	1669.5	1657.9
17.5°	1639.4	1639.4	1642.2	1629.1	1620.2
20°	1597.0	1599.0	1599.0	1588.8	1578.5
22.5°	1547.7	1553.8	1555.9	1545.0	1532.6
25°	1489.5	1501.1	1508.0	1497.0	1484.0
27.5°	1419.0	1436.8	1457.3	1449.1	1434.7
30°	1340.3	1366.3	1400.5	1393.7	1383.4
32.5°	1265.7	1291.7	1338.9	1336.2	1330.7
35°	1197.9	1214.3	1269.8	1276.6	1271.8
37.5°	1133.6	1148.6	1200.6	1216.4	1212.3
40°	1065.8	1082.2	1123.3	1151.4	1152.7
42.5°	998.7	1014.5	1048.0	1088.4	1088.4
45°	927.5	943.3	974.1	1018.6	1024.0
47.5°	857.7	874.1	904.2	948.7	957.6
50°	789.2	804.3	834.4	877.5	891.2
52.5°	718.1	734.5	763.9	803.6	823.5
55°	649.6	660.6	692.7	731.1	752.3
57.5°	578.4	588.7	625.0	657.8	679.7
60°	510.0	523.0	551.0	584.6	609.9
62.5°	444.3	457.9	481.9	511.3	540.1
65°	380.6	390.9	414.1	443.6	468.9
67.5°	319.0	327.9	351.2	371.7	398.4
70°	256.7	268.3	285.4	305.3	322.4
72.5°	206.7	211.5	225.9	240.3	258.1
75°	152.6	160.9	172.5	180.7	191.0
77.5°	109.5	114.3	121.2	128.0	137.6
80°	73.2	75.3	81.5	82.8	90.4
82.5°	44.5	45.9	47.2	47.9	50.7
85°	24.0	24.0	24.0	22.6	22.6
87.5°	13.7	13.7	11.6	9.6	6.8
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)