

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: P556041

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-81-88-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: P556041
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-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

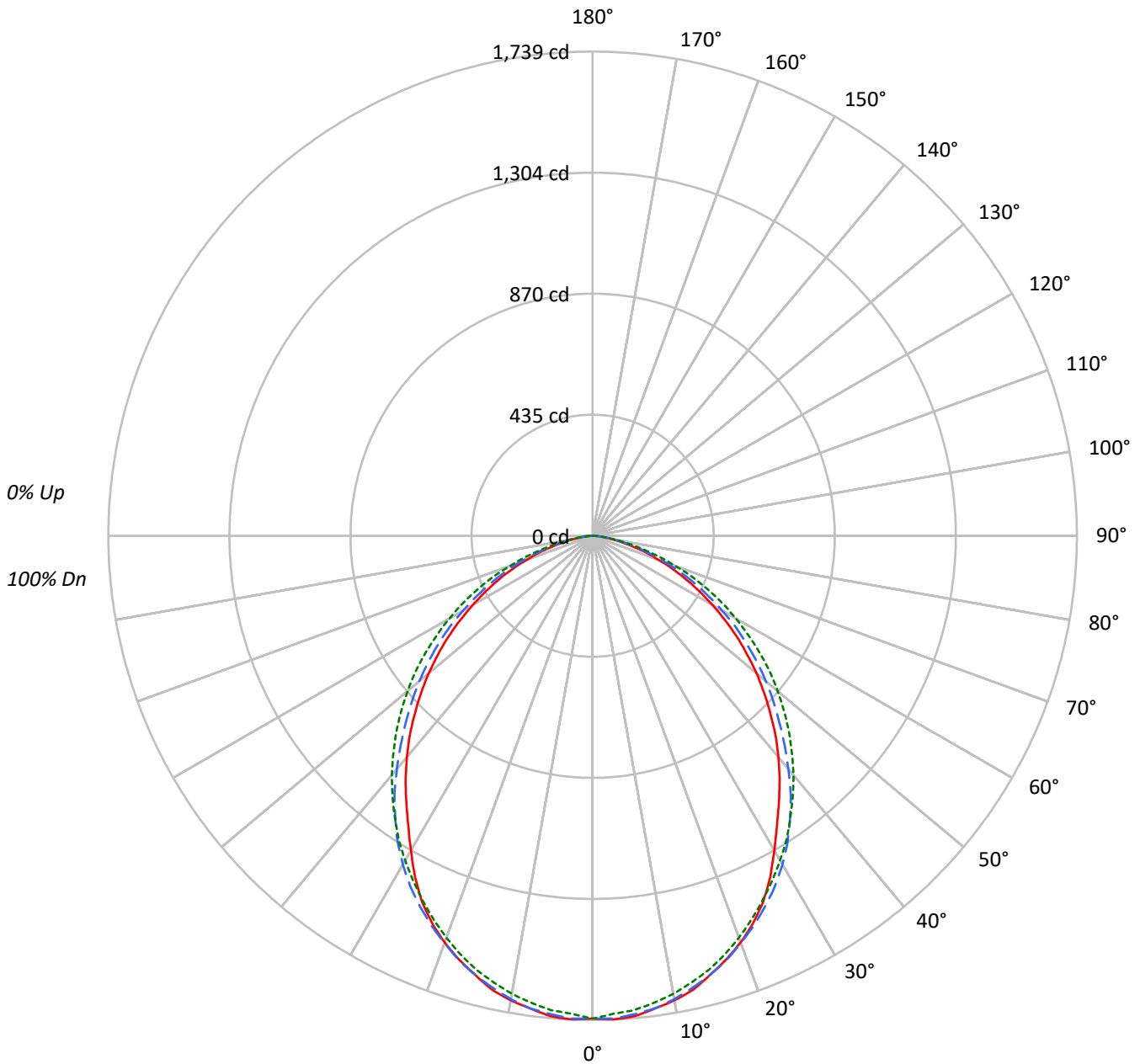
Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P556041

CATALOG NUMBER: FUSL-12-2-LD4-3STD-40-UNV-81-88-EDD

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°	9333	9333	9333
5°	9358	9319	9239
10°	9259	9234	9128
15°	9095	9095	8991
20°	8902	8913	8799
25°	8609	8716	8577
30°	8107	8471	8368
35°	7660	8120	8133
40°	7288	7681	7882
45°	6871	7216	7586
50°	6432	6800	7263
55°	5933	6326	6870
60°	5342	5773	6389
65°	4717	5133	5812
70°	3931	4371	4938
75°	3090	3491	3866
80°	2210	2458	2724
85°	1439	1439	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	4.1
10°-20°	458.7	11.4
20°-30°	670.3	16.7
30°-40°	760.9	19.0
40°-50°	734.5	18.3
50°-60°	605.9	15.1
60°-70°	403.5	10.1
70°-80°	180.6	4.5
80°-90°	32.3	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°	1292.3	32.2
0°-40°	2053.2	51.2
0°-60°	3393.6	84.6
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1732	1732	1725	1716	1710	164
15°	1632	1636	1632	1625	1614	460
25°	1450	1461	1468	1457	1444	664
35°	1166	1182	1236	1242	1238	731
45°	903	918	948	991	997	697
55°	632	643	674	712	732	564
65°	370	380	403	432	456	367
75°	149	157	168	176	186	162
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1738.9	1739.6	1735.6	1724.9	1718.2
5°	1732.2	1731.6	1724.9	1715.6	1710.2
7.5°	1712.9	1714.2	1712.2	1698.9	1691.6
10°	1694.2	1694.9	1689.6	1678.9	1670.3
12.5°	1670.3	1669.6	1662.3	1656.9	1642.9
15°	1632.3	1636.3	1632.3	1625.0	1613.6
17.5°	1595.6	1595.6	1598.3	1585.7	1577.0
20°	1554.3	1556.3	1556.3	1546.3	1536.3
22.5°	1506.4	1512.4	1514.4	1503.7	1491.7
25°	1449.7	1461.1	1467.7	1457.1	1444.4
27.5°	1381.1	1398.4	1418.4	1410.4	1396.4
30°	1304.5	1329.8	1363.1	1356.5	1346.5
32.5°	1231.9	1257.2	1303.2	1300.5	1295.2
35°	1165.9	1181.9	1235.9	1242.5	1237.9
37.5°	1103.3	1117.9	1168.6	1183.9	1179.9
40°	1037.3	1053.3	1093.3	1120.6	1121.9
42.5°	972.0	987.4	1020.0	1059.3	1059.3
45°	902.8	918.1	948.1	991.4	996.7
47.5°	834.8	850.8	880.1	923.4	932.1
50°	768.2	782.8	812.1	854.1	867.4
52.5°	698.9	714.9	743.5	782.2	801.5
55°	632.3	642.9	674.2	711.5	732.2
57.5°	563.0	573.0	608.3	640.3	661.6
60°	496.3	509.0	536.3	569.0	593.6
62.5°	432.4	445.7	469.0	497.7	525.7
65°	370.4	380.4	403.1	431.7	456.4
67.5°	310.5	319.1	341.8	361.8	387.8
70°	249.8	261.2	277.8	297.1	313.8
72.5°	201.2	205.9	219.9	233.9	251.2
75°	148.6	156.6	167.9	175.9	185.9
77.5°	106.6	111.3	117.9	124.6	133.9
80°	71.3	73.3	79.3	80.6	87.9
82.5°	43.3	44.6	46.0	46.6	49.3
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	6.7
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)