

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: P555604

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-86-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: P555604
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-LD4-3HI-50-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

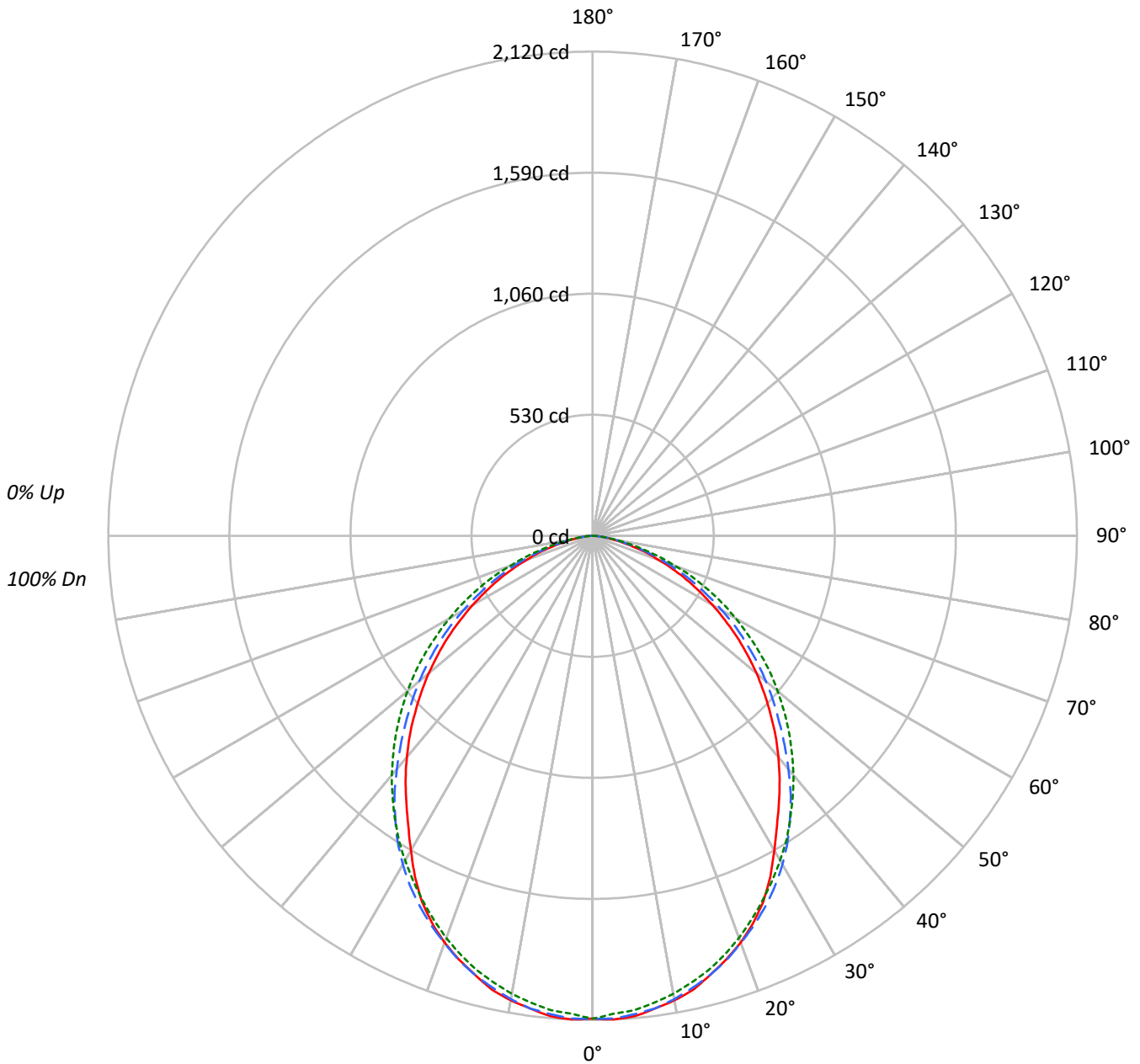
Lumens per Lamp: N/A
Luminaire Lumens: 4889.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P555604

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555604

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-86-EDD-90

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°	11380	11380	11380
5°	11410	11361	11265
10°	11288	11257	11129
15°	11088	11088	10961
20°	10854	10868	10728
25°	10496	10627	10457
30°	9884	10328	10202
35°	9339	9900	9916
40°	8885	9365	9610
45°	8377	8798	9249
50°	7842	8291	8855
55°	7233	7713	8376
60°	6513	7039	7790
65°	5751	6258	7086
70°	4793	5330	6021
75°	3766	4257	4712
80°	2693	2997	3322
85°	1754	1754	1655



TEST NUMBER: P555604

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	4.1
10°-20°	559.3	11.4
20°-30°	817.3	16.7
30°-40°	927.7	19.0
40°-50°	895.5	18.3
50°-60°	738.8	15.1
60°-70°	491.9	10.1
70°-80°	220.1	4.5
80°-90°	39.4	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°	1575.6	32.2
0°-40°	2503.3	51.2
0°-60°	4137.5	84.6
0°-90°	4889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2112	2111	2103	2092	2085	200
15°	1990	1995	1990	1981	1967	561
25°	1768	1781	1790	1776	1761	809
35°	1422	1441	1507	1515	1509	891
45°	1101	1119	1156	1209	1215	849
55°	771	784	822	868	893	688
65°	452	464	491	526	556	448
75°	181	191	205	214	227	198
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



TEST NUMBER: P555604

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-82-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2114.4	2114.4	2114.4	2114.4	2114.4
2.5°	2120.1	2120.9	2116.0	2103.0	2094.9
5°	2111.9	2111.1	2103.0	2091.6	2085.1
7.5°	2088.4	2090.0	2087.6	2071.3	2062.4
10°	2065.6	2066.4	2059.9	2046.9	2036.4
12.5°	2036.4	2035.6	2026.6	2020.1	2003.1
15°	1990.1	1995.0	1990.1	1981.2	1967.3
17.5°	1945.4	1945.4	1948.7	1933.2	1922.7
20°	1895.1	1897.5	1897.5	1885.3	1873.1
22.5°	1836.6	1843.9	1846.3	1833.3	1818.7
25°	1767.5	1781.3	1789.5	1776.5	1761.0
27.5°	1683.9	1705.0	1729.3	1719.6	1702.5
30°	1590.4	1621.3	1661.9	1653.8	1641.6
32.5°	1501.9	1532.8	1588.8	1585.6	1579.1
35°	1421.5	1441.0	1506.8	1514.9	1509.2
37.5°	1345.1	1363.0	1424.7	1443.4	1438.5
40°	1264.7	1284.2	1333.0	1366.3	1367.9
42.5°	1185.1	1203.8	1243.6	1291.5	1291.5
45°	1100.6	1119.3	1155.9	1208.7	1215.2
47.5°	1017.8	1037.3	1073.0	1125.8	1136.4
50°	936.6	954.4	990.2	1041.3	1057.6
52.5°	852.1	871.6	906.5	953.6	977.2
55°	770.9	783.9	822.0	867.5	892.7
57.5°	686.4	698.6	741.6	780.6	806.6
60°	605.1	620.6	653.9	693.7	723.7
62.5°	527.2	543.4	571.8	606.8	640.9
65°	451.6	463.8	491.4	526.4	556.4
67.5°	378.5	389.1	416.7	441.1	472.7
70°	304.6	318.4	338.7	362.3	382.6
72.5°	245.3	251.0	268.1	285.1	306.2
75°	181.1	190.9	204.7	214.4	226.6
77.5°	130.0	135.7	143.8	151.9	163.3
80°	86.9	89.4	96.7	98.3	107.2
82.5°	52.8	54.4	56.0	56.9	60.1
85°	28.4	28.4	28.4	26.8	26.8
87.5°	16.2	16.2	13.8	11.4	8.1
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)