

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: P555401

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555401
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

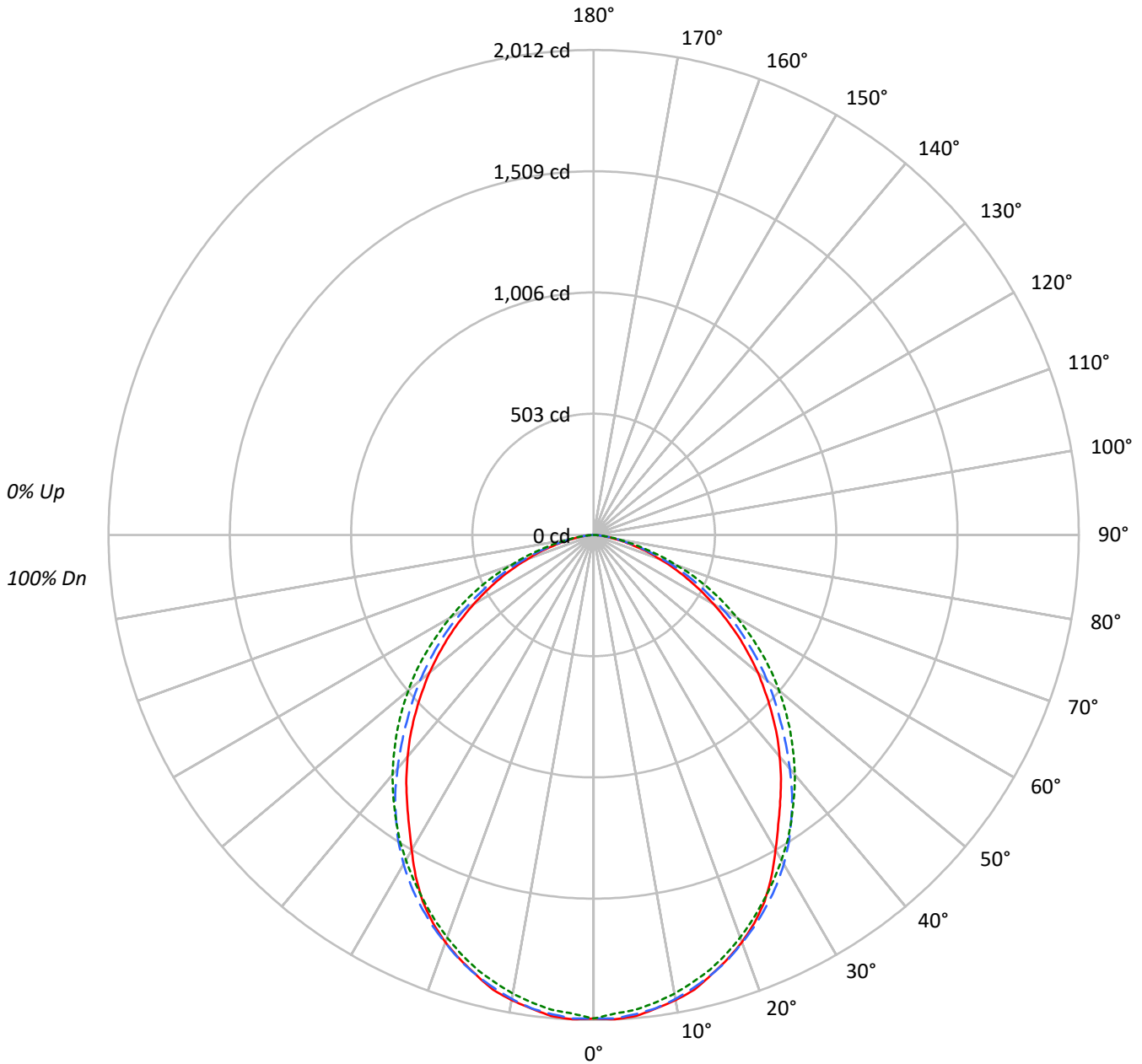
Lumens per Lamp: N/A
Luminaire Lumens: 4639.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P555401

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555401

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-88-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
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°	10797	10797	10797
5°	10826	10781	10689
10°	10711	10682	10560
15°	10521	10521	10401
20°	10298	10312	10179
25°	9959	10083	9923
30°	9378	9800	9680
35°	8862	9393	9408
40°	8431	8886	9119
45°	7949	8348	8776
50°	7441	7866	8402
55°	6863	7319	7948
60°	6181	6678	7392
65°	5457	5938	6724
70°	4548	5057	5712
75°	3575	4038	4471
80°	2557	2842	3152
85°	1667	1667	1568



TEST NUMBER: P555401

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	4.1
10°-20°	530.7	11.4
20°-30°	775.5	16.7
30°-40°	880.2	19.0
40°-50°	849.7	18.3
50°-60°	701.0	15.1
60°-70°	466.8	10.1
70°-80°	208.9	4.5
80°-90°	37.4	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°	1495.0	32.2
0°-40°	2375.2	51.2
0°-60°	3926.0	84.6
0°-90°	4639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2004	2003	1996	1985	1978	190
15°	1888	1893	1888	1880	1867	532
25°	1677	1690	1698	1686	1671	768
35°	1349	1367	1430	1437	1432	845
45°	1044	1062	1097	1147	1153	806
55°	731	744	780	823	847	653
65°	428	440	466	499	528	425
75°	172	181	194	204	215	188
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



TEST NUMBER: P555401

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-81-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2011.6	2012.4	2007.8	1995.5	1987.7
5°	2003.9	2003.2	1995.5	1984.7	1978.5
7.5°	1981.6	1983.1	1980.8	1965.4	1956.9
10°	1960.0	1960.8	1954.6	1942.3	1932.3
12.5°	1932.3	1931.5	1923.0	1916.8	1900.7
15°	1888.3	1892.9	1888.3	1879.8	1866.7
17.5°	1845.9	1845.9	1849.0	1834.4	1824.4
20°	1798.1	1800.5	1800.5	1788.9	1777.3
22.5°	1742.7	1749.6	1751.9	1739.6	1725.7
25°	1677.1	1690.2	1697.9	1685.6	1671.0
27.5°	1597.8	1617.8	1640.9	1631.7	1615.5
30°	1509.1	1538.4	1576.9	1569.2	1557.7
32.5°	1425.1	1454.4	1507.6	1504.5	1498.3
35°	1348.8	1367.3	1429.7	1437.4	1432.0
37.5°	1276.4	1293.3	1351.9	1369.6	1365.0
40°	1200.0	1218.5	1264.8	1296.4	1297.9
42.5°	1124.5	1142.2	1180.0	1225.5	1225.5
45°	1044.4	1062.1	1096.8	1146.9	1153.0
47.5°	965.7	984.2	1018.2	1068.3	1078.3
50°	888.7	905.6	939.5	988.1	1003.5
52.5°	808.5	827.0	860.2	904.9	927.2
55°	731.4	743.8	780.0	823.2	847.0
57.5°	651.3	662.8	703.7	740.7	765.3
60°	574.2	588.8	620.4	658.2	686.7
62.5°	500.2	515.6	542.6	575.7	608.1
65°	428.5	440.1	466.3	499.4	528.0
67.5°	359.2	369.2	395.4	418.5	448.6
70°	289.0	302.1	321.4	343.8	363.0
72.5°	232.8	238.2	254.3	270.5	290.6
75°	171.9	181.1	194.2	203.5	215.0
77.5°	123.3	128.7	136.4	144.1	154.9
80°	82.5	84.8	91.7	93.3	101.7
82.5°	50.1	51.6	53.2	54.0	57.0
85°	27.0	27.0	27.0	25.4	25.4
87.5°	15.4	15.4	13.1	10.8	7.7
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)