

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: P555412

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555412
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-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

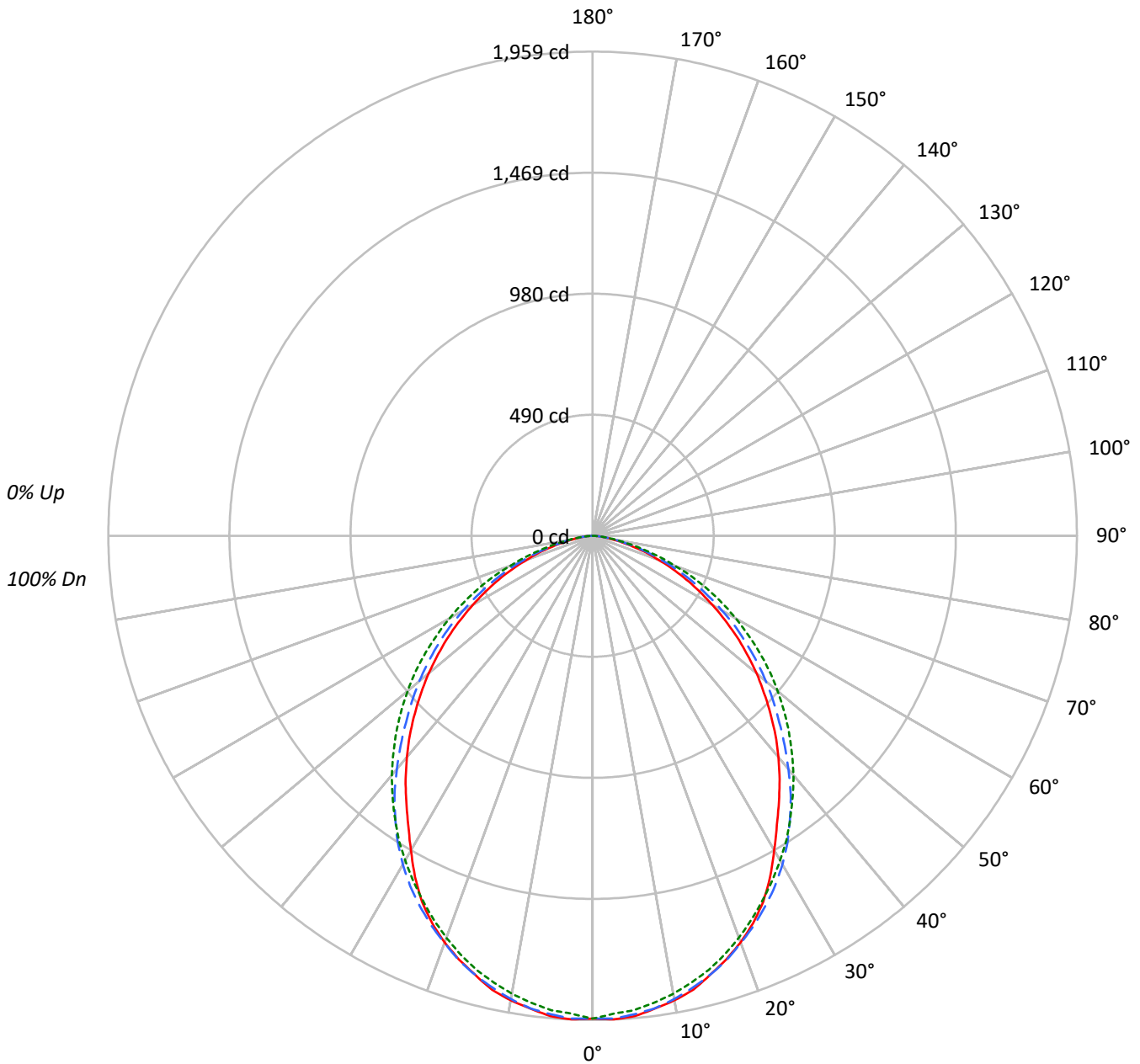
Lumens per Lamp: N/A
Luminaire Lumens: 4517.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555412

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





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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	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°	10514	10514	10514
5°	10541	10497	10408
10°	10430	10401	10282
15°	10245	10245	10127
20°	10028	10041	9912
25°	9697	9818	9662
30°	9132	9542	9426
35°	8629	9146	9161
40°	8209	8652	8879
45°	7740	8128	8545
50°	7245	7659	8181
55°	6683	7127	7739
60°	6018	6502	7198
65°	5314	5782	6547
70°	4428	4924	5563
75°	3481	3932	4354
80°	2489	2768	3071
85°	1624	1624	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	4.1
10°-20°	516.7	11.4
20°-30°	755.1	16.7
30°-40°	857.1	19.0
40°-50°	827.4	18.3
50°-60°	682.5	15.1
60°-70°	454.5	10.1
70°-80°	203.4	4.5
80°-90°	36.4	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°	1455.7	32.2
0°-40°	2312.8	51.2
0°-60°	3822.7	84.6
0°-90°	4517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1951	1950	1943	1932	1926	185
15°	1839	1843	1839	1830	1818	518
25°	1633	1646	1653	1641	1627	748
35°	1313	1331	1392	1400	1394	823
45°	1017	1034	1068	1117	1123	785
55°	712	724	760	802	825	636
65°	417	428	454	486	514	414
75°	167	176	189	198	209	183
85°	26	26	26	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1953.5	1953.5	1953.5	1953.5	1953.5
2.5°	1958.7	1959.5	1955.0	1943.0	1935.5
5°	1951.2	1950.5	1943.0	1932.5	1926.5
7.5°	1929.5	1931.0	1928.7	1913.7	1905.5
10°	1908.5	1909.2	1903.2	1891.2	1881.4
12.5°	1881.4	1880.7	1872.4	1866.4	1850.7
15°	1838.7	1843.2	1838.7	1830.4	1817.6
17.5°	1797.4	1797.4	1800.4	1786.1	1776.4
20°	1750.9	1753.1	1753.1	1741.9	1730.6
22.5°	1696.8	1703.6	1705.8	1693.8	1680.3
25°	1633.0	1645.8	1653.3	1641.3	1627.0
27.5°	1555.7	1575.2	1597.8	1588.8	1573.0
30°	1469.4	1497.9	1535.5	1528.0	1516.7
32.5°	1387.6	1416.1	1467.9	1464.9	1458.9
35°	1313.3	1331.3	1392.1	1399.6	1394.4
37.5°	1242.8	1259.3	1316.3	1333.6	1329.1
40°	1168.5	1186.5	1231.5	1262.3	1263.8
42.5°	1094.9	1112.2	1149.0	1193.3	1193.3
45°	1016.9	1034.2	1067.9	1116.7	1122.7
47.5°	940.3	958.4	991.4	1040.2	1049.9
50°	865.3	881.8	914.8	962.1	977.1
52.5°	787.2	805.3	837.5	881.1	902.8
55°	712.2	724.2	759.5	801.5	824.8
57.5°	634.2	645.4	685.2	721.2	745.2
60°	559.1	573.4	604.1	640.9	668.7
62.5°	487.1	502.1	528.3	560.6	592.1
65°	417.3	428.5	454.0	486.3	514.1
67.5°	349.7	359.5	385.0	407.5	436.8
70°	281.4	294.2	312.9	334.7	353.5
72.5°	226.6	231.9	247.7	263.4	282.9
75°	167.4	176.4	189.1	198.1	209.4
77.5°	120.1	125.3	132.8	140.3	150.8
80°	80.3	82.6	89.3	90.8	99.1
82.5°	48.8	50.3	51.8	52.5	55.5
85°	26.3	26.3	26.3	24.8	24.8
87.5°	15.0	15.0	12.8	10.5	7.5
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)