

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: P555520

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-84-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: P555520
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-40-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

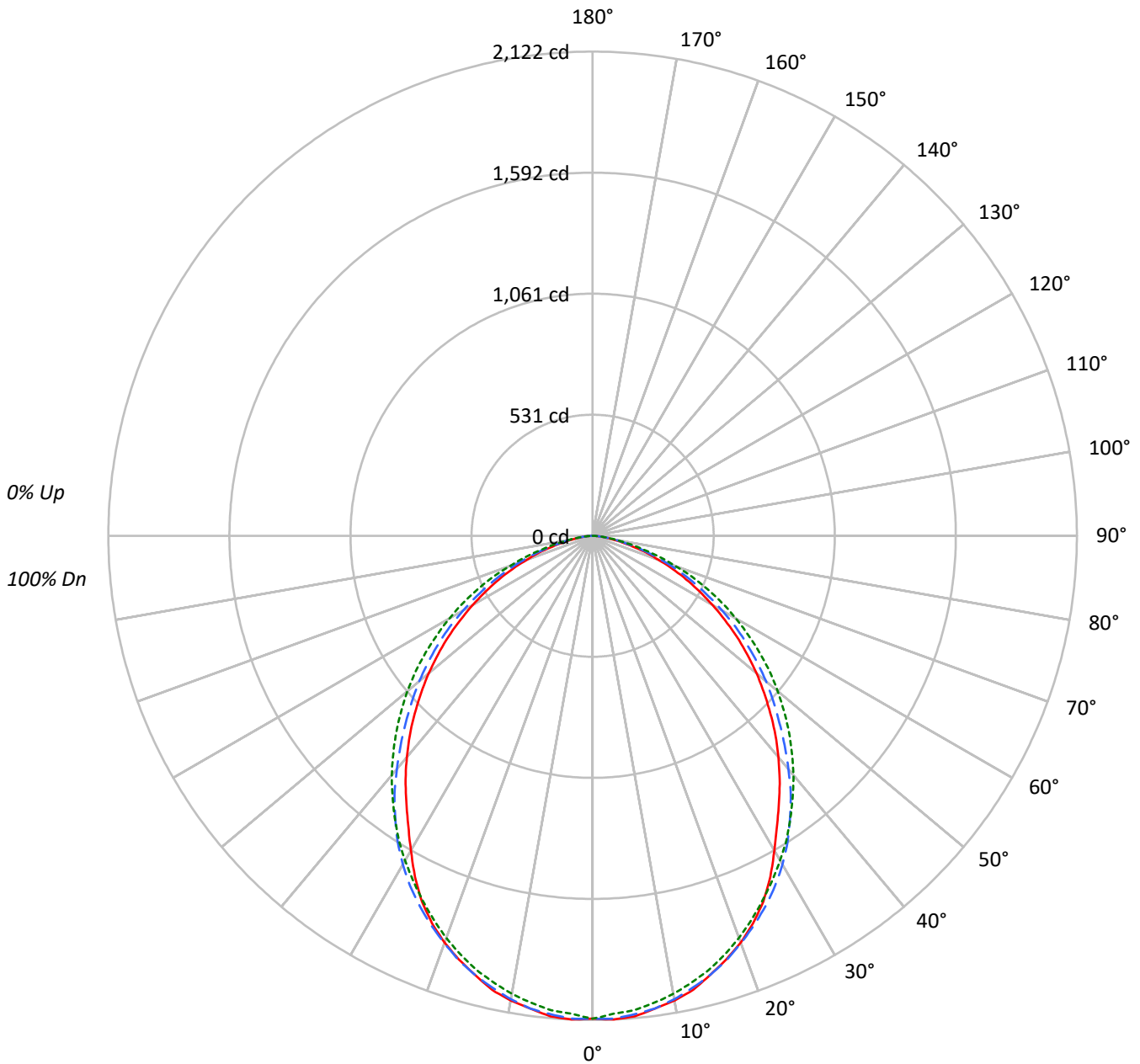
Lumens per Lamp: N/A
Luminaire Lumens: 4894.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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	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°	11391	11391	11391
5°	11421	11373	11277
10°	11300	11269	11140
15°	11100	11100	10973
20°	10865	10879	10739
25°	10507	10637	10468
30°	9894	10339	10212
35°	9349	9910	9926
40°	8894	9374	9620
45°	8386	8807	9258
50°	7850	8299	8864
55°	7240	7721	8385
60°	6521	7046	7798
65°	5757	6264	7093
70°	4798	5336	6027
75°	3770	4261	4718
80°	2696	3000	3326
85°	1760	1760	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	4.1
10°-20°	559.8	11.4
20°-30°	818.1	16.7
30°-40°	928.6	19.0
40°-50°	896.4	18.3
50°-60°	739.5	15.1
60°-70°	492.4	10.1
70°-80°	220.4	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°	1577.2	32.2
0°-40°	2505.8	51.2
0°-60°	4141.8	84.6
0°-90°	4894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2114	2113	2105	2094	2087	200
15°	1992	1997	1992	1983	1969	562
25°	1769	1783	1791	1778	1763	810
35°	1423	1442	1508	1516	1511	892
45°	1102	1120	1157	1210	1216	850
55°	772	785	823	868	894	689
65°	452	464	492	527	557	448
75°	181	191	205	215	227	198
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2116.5	2116.5	2116.5	2116.5	2116.5
2.5°	2122.2	2123.0	2118.2	2105.1	2097.0
5°	2114.1	2113.3	2105.1	2093.8	2087.3
7.5°	2090.5	2092.1	2089.7	2073.4	2064.5
10°	2067.7	2068.6	2062.1	2049.0	2038.5
12.5°	2038.5	2037.7	2028.7	2022.2	2005.1
15°	1992.1	1997.0	1992.1	1983.2	1969.4
17.5°	1947.4	1947.4	1950.7	1935.2	1924.6
20°	1897.0	1899.4	1899.4	1887.2	1875.0
22.5°	1838.4	1845.8	1848.2	1835.2	1820.6
25°	1769.3	1783.2	1791.3	1778.3	1762.8
27.5°	1685.6	1706.7	1731.1	1721.4	1704.3
30°	1592.1	1623.0	1663.6	1655.5	1643.3
32.5°	1503.4	1534.3	1590.4	1587.2	1580.7
35°	1422.9	1442.5	1508.3	1516.5	1510.8
37.5°	1346.5	1364.4	1426.2	1444.9	1440.0
40°	1266.0	1285.5	1334.3	1367.7	1369.3
42.5°	1186.3	1205.0	1244.9	1292.8	1292.8
45°	1101.8	1120.5	1157.1	1209.9	1216.4
47.5°	1018.8	1038.3	1074.1	1127.0	1137.5
50°	937.5	955.4	991.2	1042.4	1058.7
52.5°	853.0	872.5	907.4	954.6	978.2
55°	771.6	784.7	822.9	868.4	893.6
57.5°	687.1	699.3	742.4	781.4	807.4
60°	605.8	621.2	654.6	694.4	724.5
62.5°	527.7	544.0	572.4	607.4	641.5
65°	452.1	464.3	491.9	526.9	557.0
67.5°	378.9	389.5	417.1	441.5	473.2
70°	304.9	318.7	339.1	362.6	383.0
72.5°	245.6	251.3	268.3	285.4	306.5
75°	181.3	191.1	204.9	214.7	226.9
77.5°	130.1	135.8	143.9	152.1	163.4
80°	87.0	89.4	96.8	98.4	107.3
82.5°	52.9	54.5	56.1	56.9	60.2
85°	28.5	28.5	28.5	26.8	26.8
87.5°	16.3	16.3	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)