

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: P555539

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-85-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: P555539
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

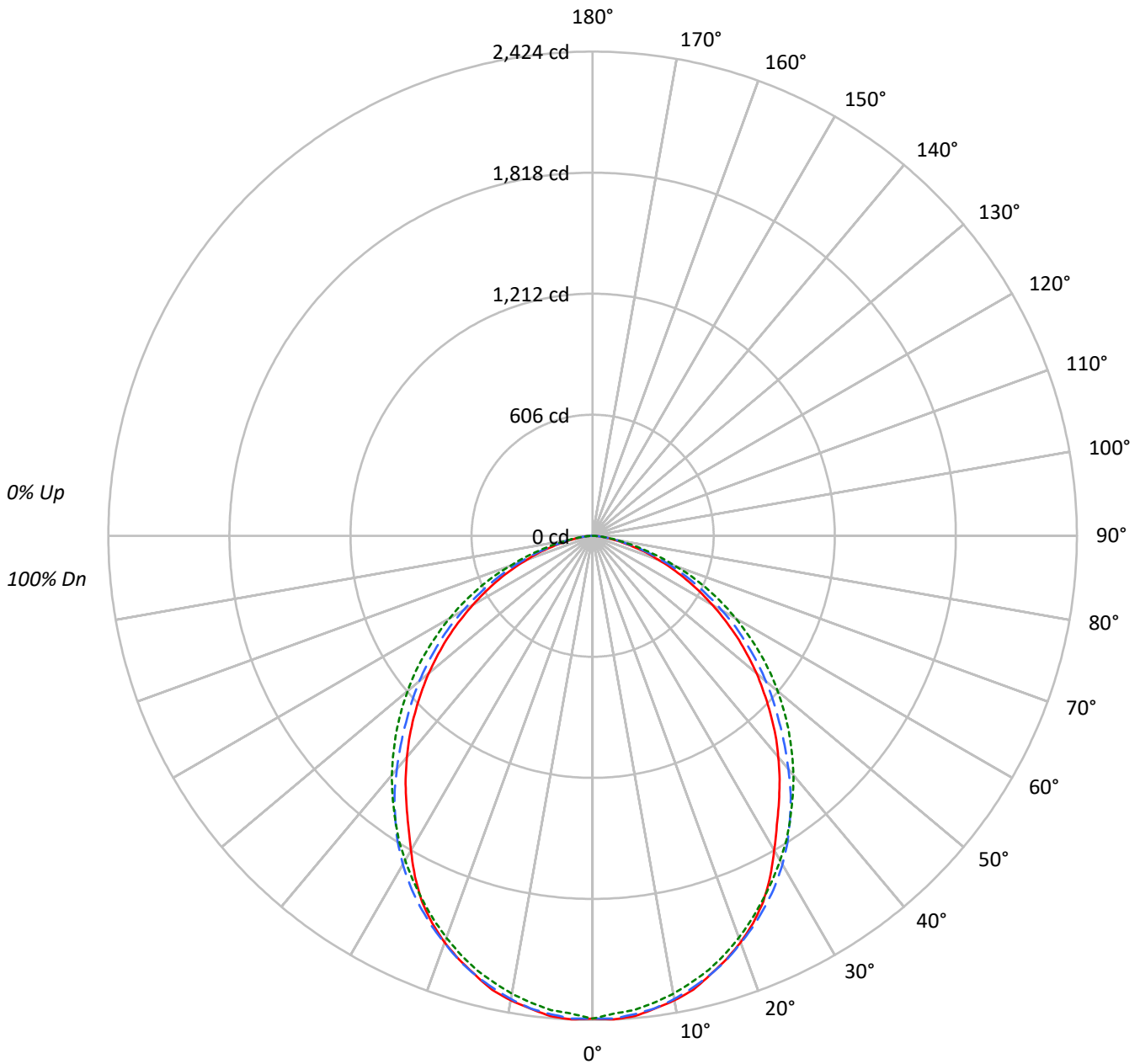
Lumens per Lamp: N/A
Luminaire Lumens: 5589.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555539

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-82-85-EDD

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°	13009	13009	13009
5°	13043	12988	12878
10°	12905	12869	12722
15°	12676	12676	12531
20°	12408	12424	12264
25°	11999	12148	11955
30°	11299	11807	11663
35°	10677	11317	11335
40°	10158	10706	10986
45°	9576	10057	10574
50°	8965	9477	10123
55°	8268	8817	9576
60°	7446	8046	8906
65°	6575	7154	8101
70°	5479	6093	6883
75°	4306	4866	5388
80°	3081	3425	3800
85°	2007	2007	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	4.1
10°-20°	639.3	11.4
20°-30°	934.3	16.7
30°-40°	1060.5	19.0
40°-50°	1023.7	18.3
50°-60°	844.5	15.1
60°-70°	562.4	10.1
70°-80°	251.6	4.5
80°-90°	45.0	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°	1801.2	32.2
0°-40°	2861.7	51.2
0°-60°	4729.9	84.6
0°-90°	5589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2414	2413	2404	2391	2384	229
15°	2275	2281	2275	2265	2249	641
25°	2021	2036	2046	2031	2013	925
35°	1625	1647	1722	1732	1725	1018
45°	1258	1280	1321	1382	1389	971
55°	881	896	940	992	1020	787
65°	516	530	562	602	636	512
75°	207	218	234	245	259	226
85°	32	32	32	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.1	2417.1	2417.1	2417.1	2417.1
2.5°	2423.6	2424.5	2419.0	2404.1	2394.8
5°	2414.3	2413.4	2404.1	2391.1	2383.7
7.5°	2387.4	2389.2	2386.5	2367.9	2357.7
10°	2361.4	2362.3	2354.9	2340.0	2328.0
12.5°	2328.0	2327.0	2316.8	2309.4	2289.9
15°	2275.0	2280.6	2275.0	2264.8	2249.0
17.5°	2224.0	2224.0	2227.7	2210.0	2198.0
20°	2166.4	2169.2	2169.2	2155.2	2141.3
22.5°	2099.5	2107.9	2110.7	2095.8	2079.1
25°	2020.6	2036.4	2045.7	2030.8	2013.2
27.5°	1924.9	1949.1	1977.0	1965.8	1946.3
30°	1818.2	1853.4	1899.9	1890.6	1876.7
32.5°	1716.9	1752.2	1816.3	1812.6	1805.2
35°	1625.0	1647.3	1722.5	1731.8	1725.3
37.5°	1537.7	1558.2	1628.7	1650.1	1644.5
40°	1445.8	1468.1	1523.8	1561.9	1563.7
42.5°	1354.8	1376.2	1421.7	1476.4	1476.4
45°	1258.2	1279.6	1321.4	1381.7	1389.2
47.5°	1163.5	1185.8	1226.7	1287.0	1299.1
50°	1070.7	1091.1	1131.9	1190.4	1209.0
52.5°	974.1	996.4	1036.3	1090.2	1117.1
55°	881.2	896.1	939.7	991.7	1020.5
57.5°	784.7	798.6	847.8	892.4	922.1
60°	691.8	709.4	747.5	793.0	827.4
62.5°	602.6	621.2	653.7	693.7	732.7
65°	516.3	530.2	561.8	601.7	636.1
67.5°	432.7	444.8	476.4	504.2	540.4
70°	348.2	364.0	387.2	414.1	437.4
72.5°	280.4	286.9	306.4	325.9	350.1
75°	207.1	218.2	234.0	245.1	259.1
77.5°	148.6	155.1	164.4	173.6	186.6
80°	99.4	102.1	110.5	112.4	122.6
82.5°	60.4	62.2	64.1	65.0	68.7
85°	32.5	32.5	32.5	30.6	30.6
87.5°	18.6	18.6	15.8	13.0	9.3
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)