

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: P555465

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-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: P555465
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

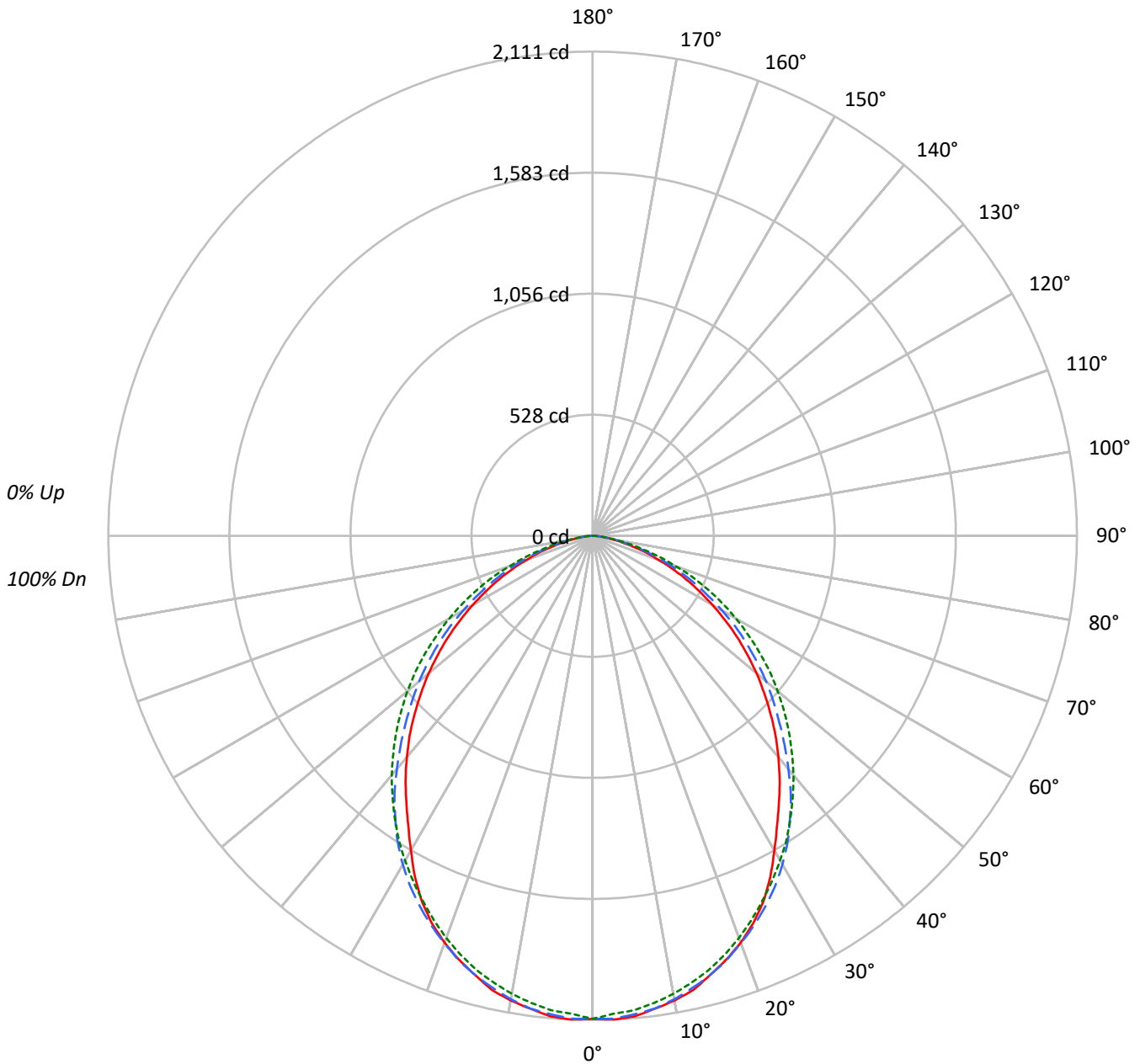
Lumens per Lamp: N/A
Luminaire Lumens: 4869.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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								
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°	11333	11333	11333
5°	11363	11315	11219
10°	11243	11211	11084
15°	11043	11043	10917
20°	10809	10823	10684
25°	10453	10583	10415
30°	9843	10286	10160
35°	9301	9859	9875
40°	8849	9327	9571
45°	8343	8761	9211
50°	7809	8256	8819
55°	7203	7682	8342
60°	6487	7009	7759
65°	5728	6232	7056
70°	4774	5308	5995
75°	3751	4240	4693
80°	2684	2985	3310
85°	1748	1748	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	4.1
10°-20°	557.0	11.4
20°-30°	813.9	16.7
30°-40°	923.9	19.0
40°-50°	891.8	18.3
50°-60°	735.7	15.1
60°-70°	489.9	10.1
70°-80°	219.3	4.5
80°-90°	39.2	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°	1569.1	32.2
0°-40°	2493.0	51.2
0°-60°	4120.6	84.6
0°-90°	4869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2103	2102	2094	2083	2077	199
15°	1982	1987	1982	1973	1959	559
25°	1760	1774	1782	1769	1754	806
35°	1416	1435	1501	1509	1503	887
45°	1096	1115	1151	1204	1210	846
55°	768	781	819	864	889	685
65°	450	462	489	524	554	446
75°	180	190	204	214	226	197
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°	2105.7	2105.7	2105.7	2105.7	2105.7
2.5°	2111.4	2112.2	2107.3	2094.4	2086.3
5°	2103.3	2102.5	2094.4	2083.1	2076.6
7.5°	2079.8	2081.4	2079.0	2062.8	2053.9
10°	2057.2	2058.0	2051.5	2038.6	2028.1
12.5°	2028.1	2027.2	2018.3	2011.9	1994.9
15°	1981.9	1986.8	1981.9	1973.0	1959.3
17.5°	1937.5	1937.5	1940.7	1925.3	1914.8
20°	1887.3	1889.7	1889.7	1877.6	1865.5
22.5°	1829.1	1836.3	1838.8	1825.8	1811.3
25°	1760.3	1774.0	1782.1	1769.2	1753.8
27.5°	1677.0	1698.0	1722.3	1712.6	1695.6
30°	1583.9	1614.7	1655.1	1647.0	1634.9
32.5°	1495.8	1526.5	1582.3	1579.1	1572.6
35°	1415.7	1435.1	1500.6	1508.7	1503.0
37.5°	1339.6	1357.4	1418.9	1437.5	1432.7
40°	1259.5	1279.0	1327.5	1360.7	1362.3
42.5°	1180.3	1198.9	1238.5	1286.2	1286.2
45°	1096.1	1114.7	1151.1	1203.7	1210.2
47.5°	1013.6	1033.0	1068.6	1121.2	1131.7
50°	932.7	950.5	986.1	1037.1	1053.3
52.5°	848.6	868.0	902.8	949.7	973.2
55°	767.7	780.6	818.7	864.0	889.0
57.5°	683.6	695.7	738.6	777.4	803.3
60°	602.7	618.0	651.2	690.8	720.8
62.5°	525.0	541.2	569.5	604.3	638.3
65°	449.8	461.9	489.4	524.2	554.1
67.5°	377.0	387.5	415.0	439.3	470.8
70°	303.4	317.1	337.3	360.8	381.0
72.5°	244.3	250.0	267.0	283.9	305.0
75°	180.4	190.1	203.9	213.6	225.7
77.5°	129.4	135.1	143.2	151.3	162.6
80°	86.6	89.0	96.3	97.9	106.8
82.5°	52.6	54.2	55.8	56.6	59.9
85°	28.3	28.3	28.3	26.7	26.7
87.5°	16.2	16.2	13.8	11.3	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)