

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: P555541

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-86-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: P555541
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

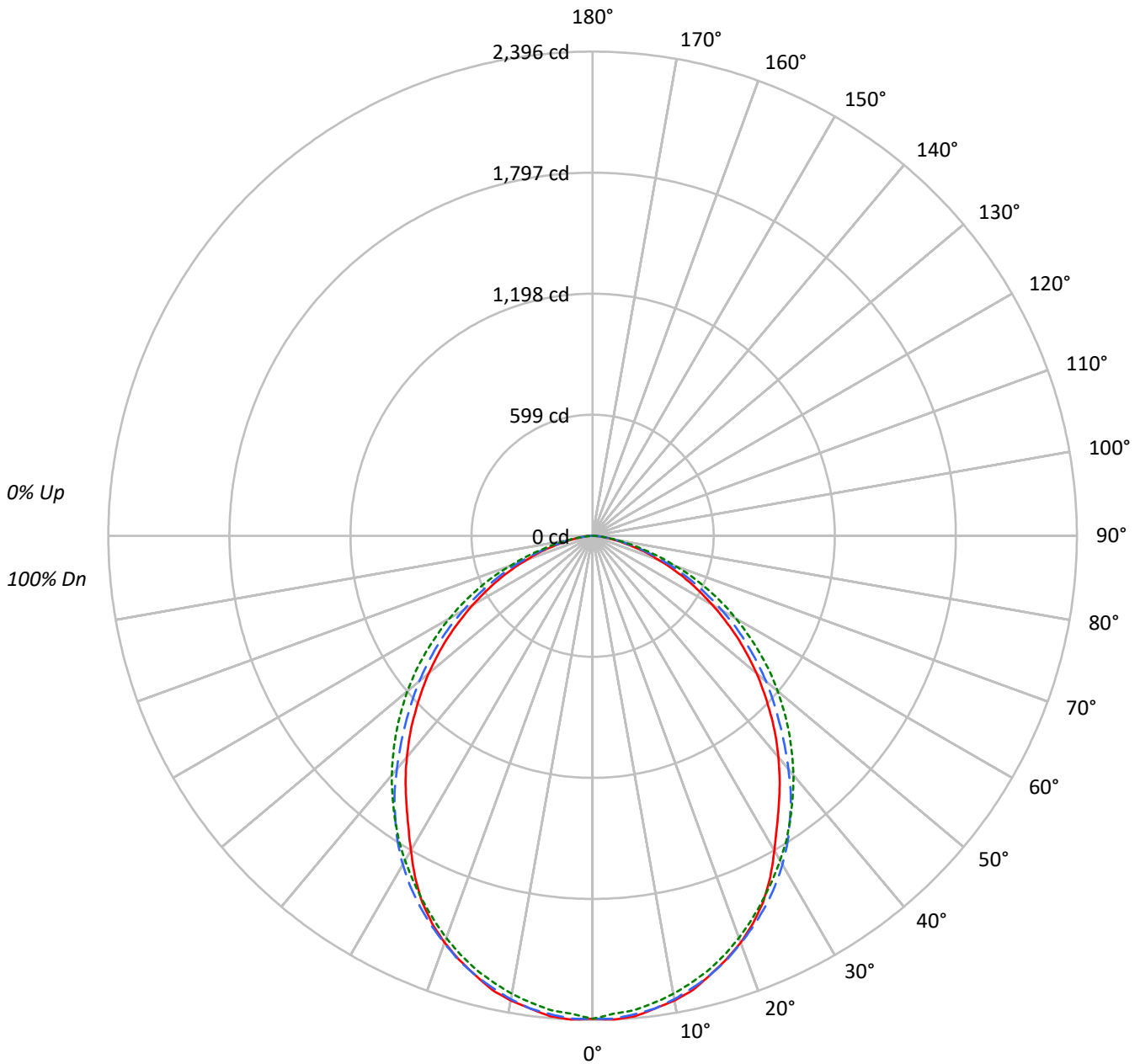
Lumens per Lamp: N/A
Luminaire Lumens: 5526.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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°	12862	12862	12862
5°	12896	12842	12733
10°	12760	12724	12579
15°	12533	12533	12390
20°	12268	12283	12126
25°	11864	12011	11820
30°	11172	11674	11531
35°	10556	11190	11208
40°	10043	10585	10862
45°	9468	9944	10454
50°	8863	9371	10009
55°	8176	8718	9468
60°	7363	7956	8805
65°	6501	7074	8009
70°	5418	6025	6804
75°	4257	4812	5327
80°	3044	3388	3756
85°	1982	1982	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	4.1
10°-20°	632.1	11.4
20°-30°	923.7	16.7
30°-40°	1048.5	19.0
40°-50°	1012.2	18.3
50°-60°	835.0	15.1
60°-70°	556.0	10.1
70°-80°	248.8	4.5
80°-90°	44.5	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°	1780.9	32.2
0°-40°	2829.4	51.2
0°-60°	4676.6	84.6
0°-90°	5526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2387	2386	2377	2364	2357	226
15°	2249	2255	2249	2239	2224	634
25°	1998	2013	2023	2008	1990	915
35°	1607	1629	1703	1712	1706	1007
45°	1244	1265	1306	1366	1374	960
55°	871	886	929	980	1009	778
65°	510	524	556	595	629	506
75°	205	216	231	242	256	224
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.9	2389.9	2389.9	2389.9	2389.9
2.5°	2396.3	2397.2	2391.7	2377.0	2367.8
5°	2387.1	2386.2	2377.0	2364.1	2356.8
7.5°	2360.5	2362.3	2359.6	2341.2	2331.1
10°	2334.8	2335.7	2328.3	2313.6	2301.7
12.5°	2301.7	2300.8	2290.7	2283.4	2264.1
15°	2249.4	2254.9	2249.4	2239.3	2223.7
17.5°	2198.9	2198.9	2202.6	2185.1	2173.2
20°	2142.0	2144.7	2144.7	2130.9	2117.2
22.5°	2075.9	2084.1	2086.9	2072.2	2055.7
25°	1997.8	2013.4	2022.6	2007.9	1990.5
27.5°	1903.3	1927.1	1954.7	1943.6	1924.4
30°	1797.7	1832.6	1878.5	1869.3	1855.5
32.5°	1697.6	1732.5	1795.8	1792.2	1784.8
35°	1606.7	1628.7	1703.1	1712.3	1705.9
37.5°	1520.4	1540.6	1610.4	1631.5	1626.0
40°	1429.5	1451.5	1506.6	1544.3	1546.1
42.5°	1339.5	1360.6	1405.6	1459.8	1459.8
45°	1244.0	1265.2	1306.5	1366.2	1373.5
47.5°	1150.4	1172.4	1212.8	1272.5	1284.4
50°	1058.6	1078.8	1119.2	1177.0	1195.4
52.5°	963.1	985.1	1024.6	1077.9	1104.5
55°	871.3	886.0	929.1	980.5	1009.0
57.5°	775.8	789.6	838.2	882.3	911.7
60°	684.0	701.4	739.1	784.1	818.0
62.5°	595.9	614.2	646.4	685.8	724.4
65°	510.5	524.2	555.5	594.9	628.9
67.5°	427.8	439.8	471.0	498.5	534.3
70°	344.3	359.9	382.9	409.5	432.4
72.5°	277.3	283.7	303.0	322.3	346.1
75°	204.7	215.8	231.4	242.4	256.2
77.5°	146.9	153.3	162.5	171.7	184.5
80°	98.2	101.0	109.3	111.1	121.2
82.5°	59.7	61.5	63.3	64.3	67.9
85°	32.1	32.1	32.1	30.3	30.3
87.5°	18.4	18.4	15.6	12.9	9.2
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)