

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: P555545

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-88-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: P555545
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

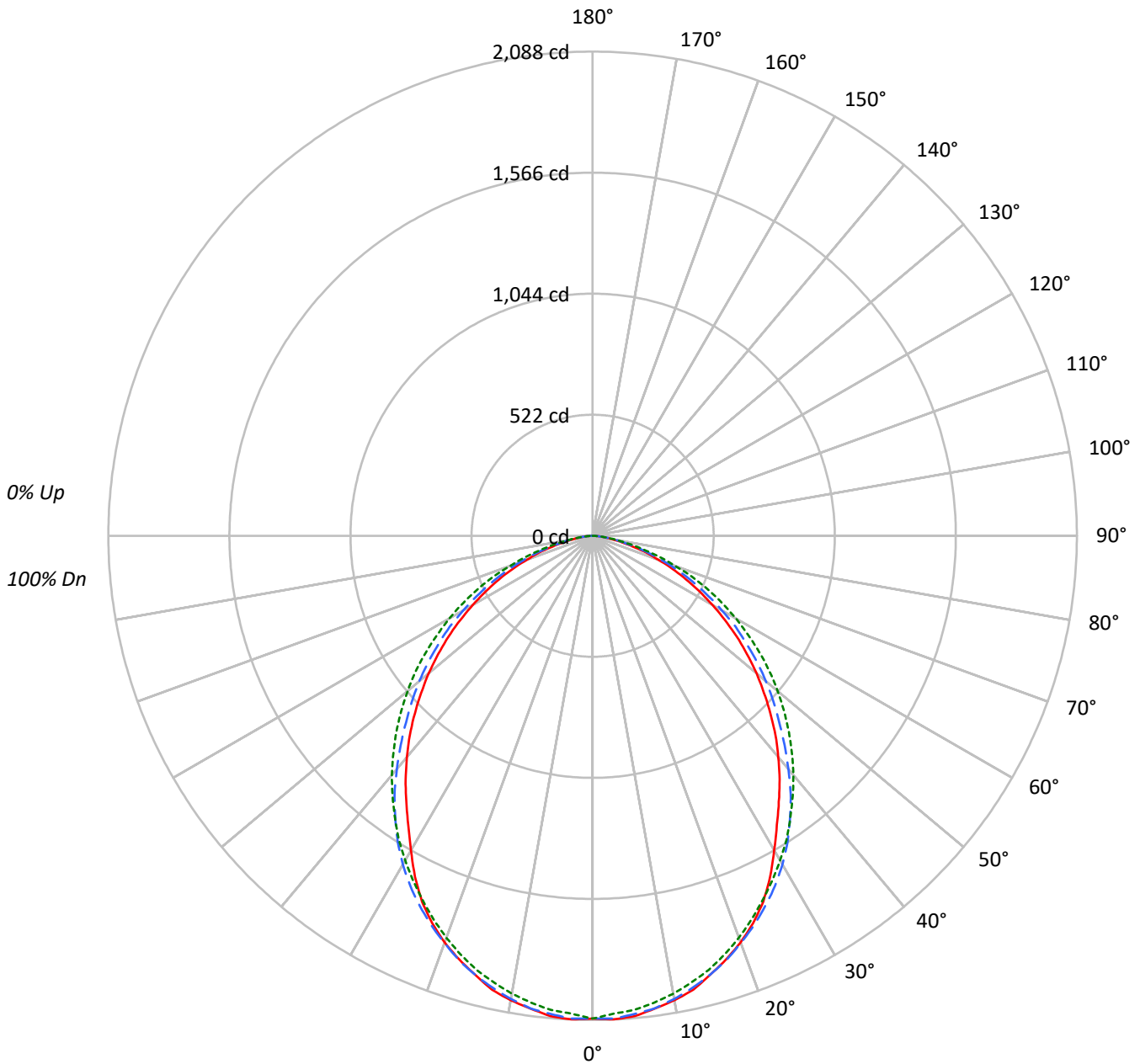
Lumens per Lamp: N/A
Luminaire Lumens: 4814.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	11205	11205	11205
5°	11235	11187	11092
10°	11115	11085	10958
15°	10919	10919	10794
20°	10687	10701	10564
25°	10335	10463	10297
30°	9732	10169	10045
35°	9196	9748	9764
40°	8749	9221	9463
45°	8249	8662	9107
50°	7721	8164	8719
55°	7122	7595	8248
60°	6414	6931	7670
65°	5663	6162	6977
70°	4719	5248	5928
75°	3710	4192	4639
80°	2653	2951	3273
85°	1729	1729	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	4.1
10°-20°	550.7	11.4
20°-30°	804.7	16.7
30°-40°	913.4	19.0
40°-50°	881.8	18.3
50°-60°	727.4	15.1
60°-70°	484.4	10.1
70°-80°	216.8	4.5
80°-90°	38.8	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°	1551.4	32.2
0°-40°	2464.9	51.2
0°-60°	4074.1	84.6
0°-90°	4814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2080	2079	2071	2060	2053	197
15°	1960	1964	1960	1951	1937	552
25°	1740	1754	1762	1749	1734	797
35°	1400	1419	1484	1492	1486	877
45°	1084	1102	1138	1190	1196	836
55°	759	772	809	854	879	677
65°	445	457	484	518	548	441
75°	178	188	202	211	223	195
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2087.5	2088.3	2083.5	2070.7	2062.7
5°	2079.5	2078.7	2070.7	2059.5	2053.1
7.5°	2056.3	2057.9	2055.5	2039.5	2030.7
10°	2033.9	2034.7	2028.3	2015.5	2005.1
12.5°	2005.1	2004.3	1995.6	1989.2	1972.4
15°	1959.6	1964.4	1959.6	1950.8	1937.2
17.5°	1915.6	1915.6	1918.8	1903.6	1893.2
20°	1866.0	1868.4	1868.4	1856.4	1844.4
22.5°	1808.4	1815.6	1818.0	1805.2	1790.8
25°	1740.4	1754.0	1762.0	1749.2	1734.0
27.5°	1658.0	1678.8	1702.8	1693.2	1676.4
30°	1566.0	1596.4	1636.4	1628.4	1616.4
32.5°	1478.9	1509.3	1564.4	1561.2	1554.8
35°	1399.7	1418.9	1483.7	1491.7	1486.1
37.5°	1324.5	1342.1	1402.9	1421.3	1416.5
40°	1245.3	1264.5	1312.5	1345.3	1346.9
42.5°	1166.9	1185.3	1224.5	1271.7	1271.7
45°	1083.8	1102.2	1138.1	1190.1	1196.5
47.5°	1002.2	1021.4	1056.6	1108.6	1118.9
50°	922.2	939.8	975.0	1025.4	1041.4
52.5°	839.0	858.2	892.6	939.0	962.2
55°	759.0	771.8	809.4	854.2	879.0
57.5°	675.8	687.8	730.2	768.6	794.2
60°	595.9	611.1	643.9	683.0	712.6
62.5°	519.1	535.1	563.1	597.5	631.1
65°	444.7	456.7	483.9	518.3	547.9
67.5°	372.7	383.1	410.3	434.3	465.5
70°	299.9	313.5	333.5	356.7	376.7
72.5°	241.5	247.1	263.9	280.7	301.5
75°	178.4	188.0	201.6	211.2	223.1
77.5°	128.0	133.6	141.6	149.6	160.8
80°	85.6	88.0	95.2	96.8	105.6
82.5°	52.0	53.6	55.2	56.0	59.2
85°	28.0	28.0	28.0	26.4	26.4
87.5°	16.0	16.0	13.6	11.2	8.0
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)