

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: P555519

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-97-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: P555519
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

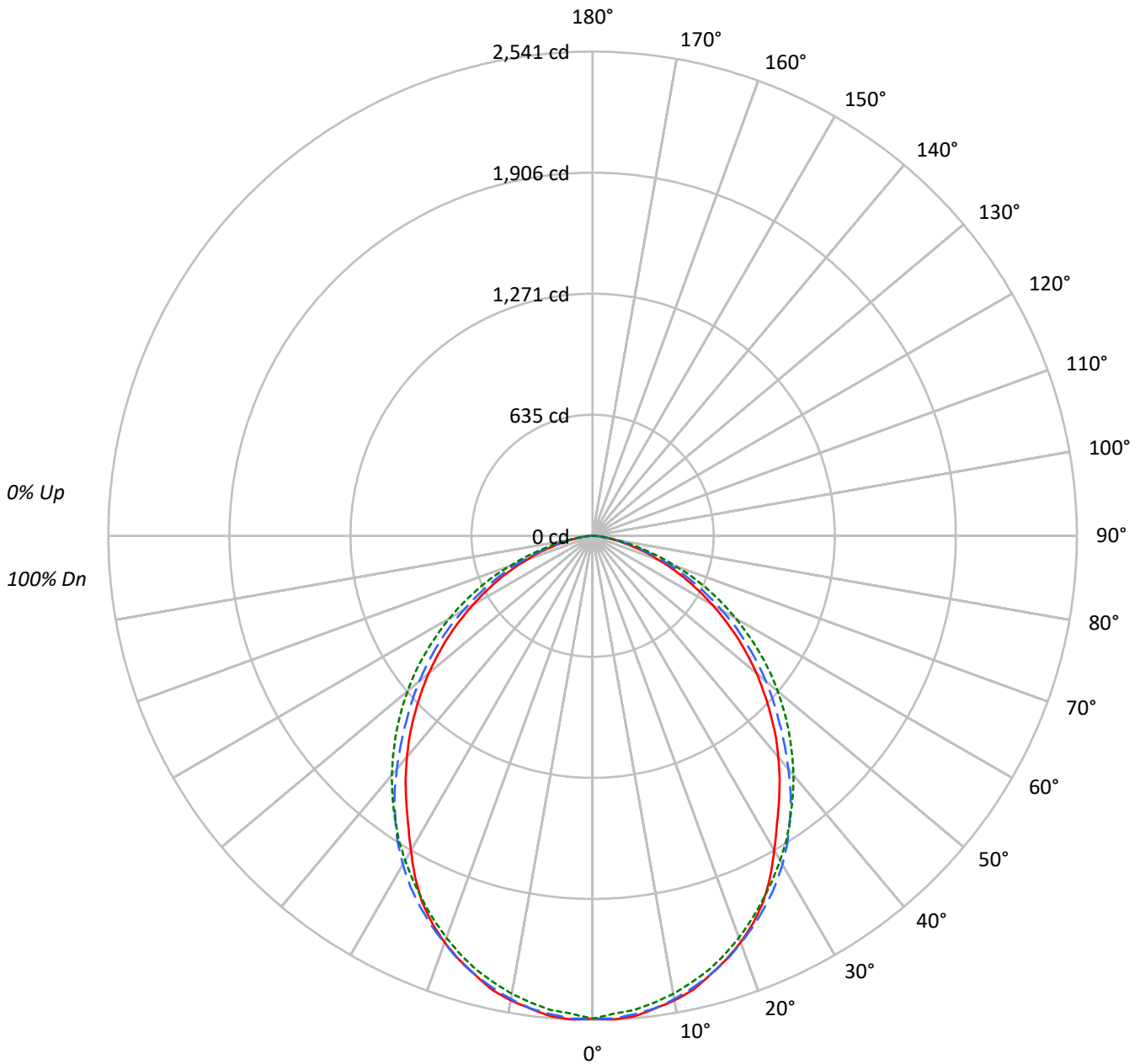
Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13637	13637	13637
5°	13673	13615	13500
10°	13529	13491	13337
15°	13288	13288	13137
20°	13007	13024	12857
25°	12579	12735	12532
30°	11845	12378	12226
35°	11192	11864	11883
40°	10648	11223	11517
45°	10039	10543	11084
50°	9398	9935	10612
55°	8668	9243	10038
60°	7806	8435	9336
65°	6892	7500	8492
70°	5744	6387	7215
75°	4514	5101	5648
80°	3230	3589	3983
85°	2106	2106	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	4.1
10°-20°	670.2	11.4
20°-30°	979.4	16.7
30°-40°	1111.7	19.0
40°-50°	1073.2	18.3
50°-60°	885.3	15.1
60°-70°	589.5	10.1
70°-80°	263.8	4.5
80°-90°	47.2	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°	1888.2	32.2
0°-40°	2999.9	51.2
0°-60°	4958.4	84.6
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2531	2530	2520	2507	2499	240
15°	2385	2391	2385	2374	2358	672
25°	2118	2135	2144	2129	2110	970
35°	1704	1727	1806	1816	1809	1067
45°	1319	1341	1385	1448	1456	1018
55°	924	939	985	1040	1070	825
65°	541	556	589	631	667	537
75°	217	229	245	257	272	237
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.9	2533.9	2533.9	2533.9	2533.9
2.5°	2540.7	2541.7	2535.8	2520.2	2510.5
5°	2530.9	2530.0	2520.2	2506.6	2498.8
7.5°	2502.7	2504.7	2501.7	2482.3	2471.6
10°	2475.5	2476.4	2468.6	2453.1	2440.4
12.5°	2440.4	2439.4	2428.7	2420.9	2400.5
15°	2384.9	2390.8	2384.9	2374.2	2357.7
17.5°	2331.4	2331.4	2335.3	2316.8	2304.1
20°	2271.0	2274.0	2274.0	2259.4	2244.8
22.5°	2200.9	2209.7	2212.6	2197.1	2179.5
25°	2118.2	2134.8	2144.5	2128.9	2110.4
27.5°	2017.9	2043.3	2072.5	2060.8	2040.3
30°	1906.0	1943.0	1991.7	1981.9	1967.3
32.5°	1799.9	1836.9	1904.1	1900.2	1892.4
35°	1703.5	1726.9	1805.7	1815.5	1808.7
37.5°	1612.0	1633.4	1707.4	1729.8	1724.0
40°	1515.6	1539.0	1597.4	1637.3	1639.3
42.5°	1420.3	1442.6	1490.3	1547.8	1547.8
45°	1319.0	1341.4	1385.2	1448.5	1456.3
47.5°	1219.7	1243.1	1285.9	1349.2	1361.8
50°	1122.4	1143.8	1186.6	1248.0	1267.4
52.5°	1021.1	1044.5	1086.4	1142.8	1171.0
55°	923.8	939.4	985.1	1039.6	1069.8
57.5°	822.6	837.2	888.8	935.5	966.6
60°	725.2	743.7	783.6	831.3	867.3
62.5°	631.8	651.2	685.3	727.2	768.0
65°	541.2	555.8	588.9	630.8	666.8
67.5°	453.6	466.3	499.4	528.6	566.5
70°	365.0	381.6	405.9	434.2	458.5
72.5°	294.0	300.8	321.2	341.7	367.0
75°	217.1	228.8	245.3	257.0	271.6
77.5°	155.8	162.6	172.3	182.0	195.7
80°	104.2	107.1	115.8	117.8	128.5
82.5°	63.3	65.2	67.2	68.1	72.0
85°	34.1	34.1	34.1	32.1	32.1
87.5°	19.5	19.5	16.5	13.6	9.7
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)