

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: P555453

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-96-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: P555453
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-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

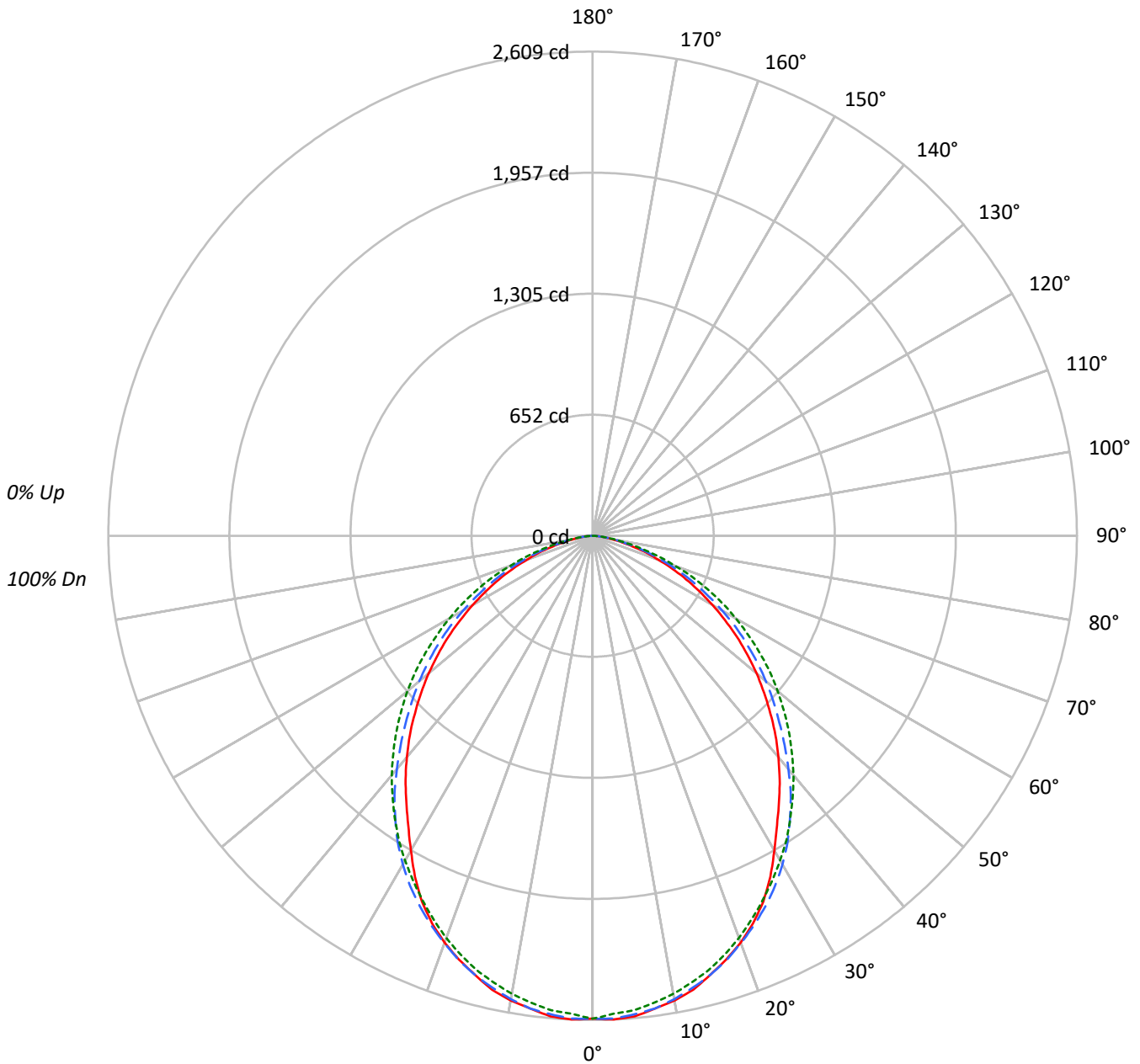
Lumens per Lamp: N/A
Luminaire Lumens: 6017.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555453

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-80-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555453

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-80-96-EDD

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°	14005	14005	14005
5°	14042	13983	13864
10°	13893	13855	13696
15°	13646	13646	13491
20°	13358	13375	13203
25°	12918	13078	12870
30°	12164	12711	12556
35°	11494	12184	12203
40°	10935	11526	11828
45°	10310	10828	11383
50°	9651	10203	10898
55°	8902	9493	10309
60°	8017	8663	9587
65°	7078	7702	8721
70°	5899	6560	7410
75°	4635	5238	5800
80°	3316	3688	4091
85°	2161	2161	2038



TEST NUMBER: P555453

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-80-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.0	4.1
10°-20°	688.3	11.4
20°-30°	1005.8	16.7
30°-40°	1141.7	19.0
40°-50°	1102.1	18.3
50°-60°	909.2	15.1
60°-70°	605.5	10.1
70°-80°	270.9	4.5
80°-90°	48.5	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°	1939.1	32.2
0°-40°	3080.8	51.2
0°-60°	5092.2	84.6
0°-90°	6017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2602	2602	2602	2602	2602	
5°	2599	2598	2588	2574	2566	246
15°	2449	2455	2449	2438	2421	690
25°	2175	2192	2202	2186	2167	996
35°	1750	1774	1854	1864	1857	1096
45°	1355	1378	1423	1488	1496	1045
55°	949	965	1012	1068	1099	847
65°	556	571	605	648	685	551
75°	223	235	252	264	279	244
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



TEST NUMBER: P555453

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-80-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2602.2	2602.2	2602.2	2602.2	2602.2
2.5°	2609.2	2610.2	2604.2	2588.2	2578.2
5°	2599.2	2598.2	2588.2	2574.2	2566.2
7.5°	2570.2	2572.2	2569.2	2549.2	2538.2
10°	2542.2	2543.2	2535.2	2519.2	2506.2
12.5°	2506.2	2505.2	2494.2	2486.2	2465.2
15°	2449.2	2455.2	2449.2	2438.2	2421.3
17.5°	2394.3	2394.3	2398.3	2379.3	2366.3
20°	2332.3	2335.3	2335.3	2320.3	2305.3
22.5°	2260.3	2269.3	2272.3	2256.3	2238.3
25°	2175.3	2192.3	2202.3	2186.3	2167.3
27.5°	2072.4	2098.4	2128.3	2116.3	2095.4
30°	1957.4	1995.4	2045.4	2035.4	2020.4
32.5°	1848.4	1886.4	1955.4	1951.4	1943.4
35°	1749.5	1773.5	1854.4	1864.4	1857.4
37.5°	1655.5	1677.5	1753.5	1776.5	1770.5
40°	1556.5	1580.5	1640.5	1681.5	1683.5
42.5°	1458.5	1481.5	1530.5	1589.5	1589.5
45°	1354.6	1377.6	1422.6	1487.5	1495.5
47.5°	1252.6	1276.6	1320.6	1385.6	1398.6
50°	1152.6	1174.6	1218.6	1281.6	1301.6
52.5°	1048.7	1072.7	1115.7	1173.6	1202.6
55°	948.7	964.7	1011.7	1067.7	1098.7
57.5°	844.7	859.7	912.7	960.7	992.7
60°	744.8	763.8	804.8	853.7	890.7
62.5°	648.8	668.8	703.8	746.8	788.8
65°	555.8	570.8	604.8	647.8	684.8
67.5°	465.9	478.9	512.8	542.8	581.8
70°	374.9	391.9	416.9	445.9	470.9
72.5°	301.9	308.9	329.9	350.9	376.9
75°	222.9	234.9	251.9	263.9	278.9
77.5°	160.0	166.9	176.9	186.9	200.9
80°	107.0	110.0	119.0	121.0	132.0
82.5°	65.0	67.0	69.0	70.0	74.0
85°	35.0	35.0	35.0	33.0	33.0
87.5°	20.0	20.0	17.0	14.0	10.0
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)