

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: P555499

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-94-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: P555499
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

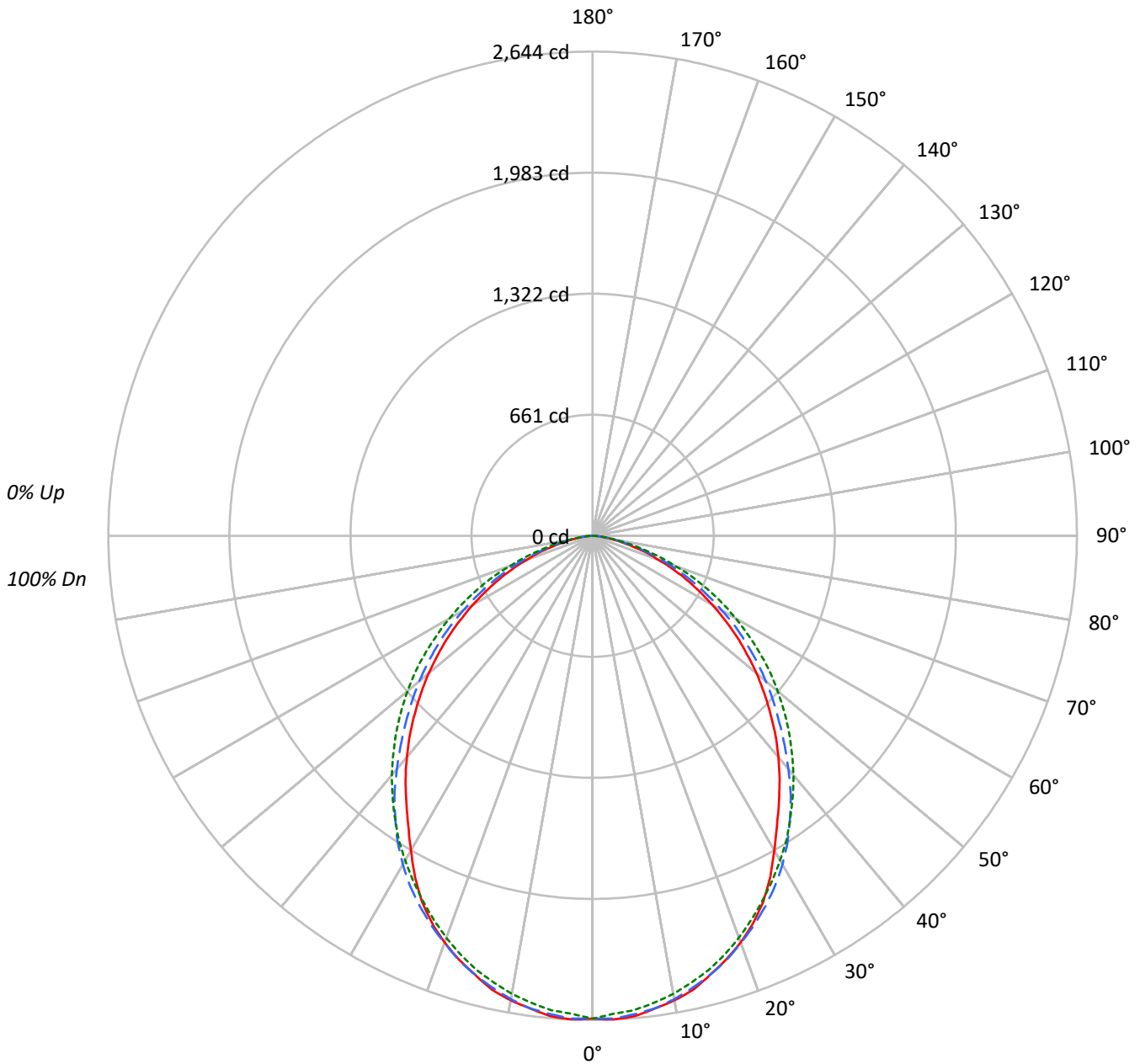
Lumens per Lamp: N/A
Luminaire Lumens: 6097.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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: P555499

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555499

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-94-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°	14191	14191	14191
5°	14229	14169	14048
10°	14078	14039	13878
15°	13828	13828	13670
20°	13535	13553	13379
25°	13090	13252	13041
30°	12326	12880	12722
35°	11647	12346	12366
40°	11081	11679	11985
45°	10447	10972	11534
50°	9779	10339	11043
55°	9020	9619	10446
60°	8124	8778	9716
65°	7172	7805	8837
70°	5978	6647	7508
75°	4697	5309	5876
80°	3360	3735	4144
85°	2192	2192	2062



TEST NUMBER: P555499

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	4.1
10°-20°	697.4	11.4
20°-30°	1019.2	16.7
30°-40°	1156.9	19.0
40°-50°	1116.8	18.3
50°-60°	921.3	15.1
60°-70°	613.5	10.1
70°-80°	274.5	4.5
80°-90°	49.1	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°	1964.9	32.2
0°-40°	3121.8	51.2
0°-60°	5159.9	84.6
0°-90°	6097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2634	2633	2623	2608	2600	249
15°	2482	2488	2482	2471	2453	700
25°	2204	2222	2232	2215	2196	1009
35°	1773	1797	1879	1889	1882	1111
45°	1373	1396	1442	1507	1515	1059
55°	961	978	1025	1082	1113	858
65°	563	578	613	656	694	558
75°	226	238	255	267	283	247
85°	36	36	36	33	33	48
90°	0	0	0	0	0	



TEST NUMBER: P555499

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2636.8	2636.8	2636.8	2636.8	2636.8
2.5°	2643.9	2644.9	2638.8	2622.6	2612.5
5°	2633.8	2632.7	2622.6	2608.4	2600.3
7.5°	2604.4	2606.4	2603.4	2583.1	2572.0
10°	2576.0	2577.0	2568.9	2552.7	2539.5
12.5°	2539.5	2538.5	2527.4	2519.3	2498.0
15°	2481.8	2487.9	2481.8	2470.7	2453.4
17.5°	2426.1	2426.1	2430.1	2410.9	2397.7
20°	2363.3	2366.3	2366.3	2351.1	2335.9
22.5°	2290.4	2299.5	2302.5	2286.3	2268.1
25°	2204.3	2221.5	2231.6	2215.4	2196.1
27.5°	2099.9	2126.3	2156.6	2144.5	2123.2
30°	1983.4	2021.9	2072.6	2062.4	2047.2
32.5°	1873.0	1911.5	1981.4	1977.3	1969.2
35°	1772.7	1797.0	1879.1	1889.2	1882.1
37.5°	1677.5	1699.8	1776.8	1800.1	1794.0
40°	1577.2	1601.5	1662.3	1703.8	1705.9
42.5°	1477.9	1501.2	1550.9	1610.6	1610.6
45°	1372.6	1395.9	1441.5	1507.3	1515.4
47.5°	1269.3	1293.6	1338.2	1404.0	1417.2
50°	1168.0	1190.3	1234.8	1298.6	1318.9
52.5°	1062.6	1086.9	1130.5	1189.2	1218.6
55°	961.3	977.5	1025.1	1081.9	1113.3
57.5°	856.0	871.2	924.9	973.5	1005.9
60°	754.7	773.9	815.5	865.1	902.6
62.5°	657.4	677.7	713.1	756.7	799.2
65°	563.2	578.4	612.9	656.4	693.9
67.5°	472.1	485.2	519.7	550.0	589.6
70°	379.9	397.1	422.4	451.8	477.1
72.5°	305.9	313.0	334.3	355.6	381.9
75°	225.9	238.1	255.3	267.4	282.6
77.5°	162.1	169.2	179.3	189.4	203.6
80°	108.4	111.4	120.5	122.6	133.7
82.5°	65.8	67.9	69.9	70.9	75.0
85°	35.5	35.5	35.5	33.4	33.4
87.5°	20.3	20.3	17.2	14.2	10.1
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)