

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: P555631

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-97-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: P555631
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-50-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

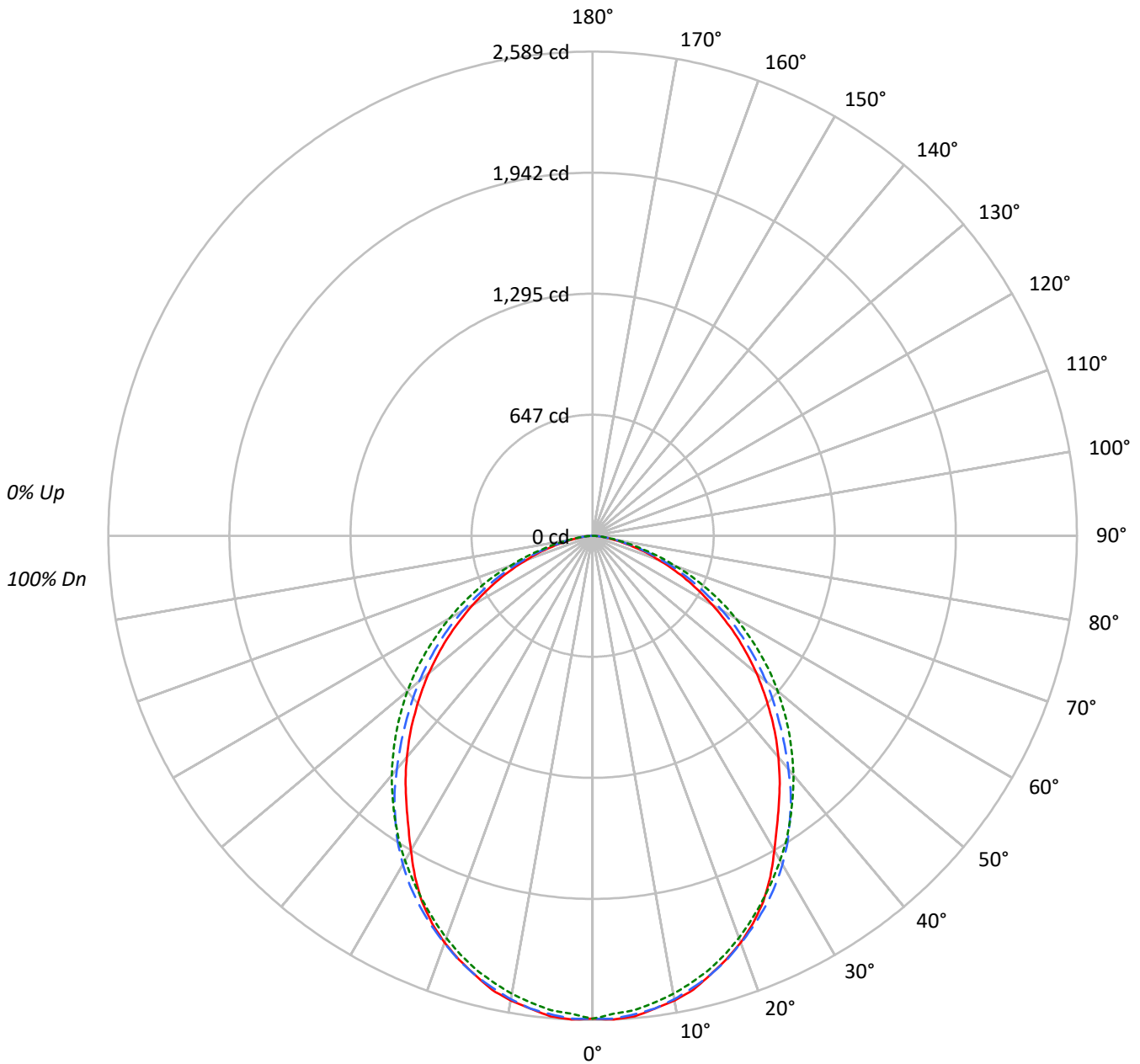
Lumens per Lamp: N/A
Luminaire Lumens: 5971.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555631

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-97-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555631

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-97-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°	13898	13898	13898
5°	13935	13876	13758
10°	13787	13749	13592
15°	13542	13542	13387
20°	13256	13273	13102
25°	12819	12978	12772
30°	12071	12614	12460
35°	11406	12091	12110
40°	10852	11438	11737
45°	10231	10745	11296
50°	9577	10125	10814
55°	8834	9421	10230
60°	7956	8596	9514
65°	7025	7643	8655
70°	5854	6510	7353
75°	4600	5199	5756
80°	3288	3660	4060
85°	2143	2143	2019



TEST NUMBER: P555631

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-97-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	4.1
10°-20°	683.0	11.4
20°-30°	998.1	16.7
30°-40°	1133.0	19.0
40°-50°	1093.7	18.3
50°-60°	902.2	15.1
60°-70°	600.8	10.1
70°-80°	268.9	4.5
80°-90°	48.1	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°	1924.3	32.2
0°-40°	3057.3	51.2
0°-60°	5053.2	84.6
0°-90°	5971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2582	2582	2582	2582	2582	
5°	2579	2578	2568	2554	2547	244
15°	2430	2436	2430	2420	2403	685
25°	2159	2176	2186	2170	2151	989
35°	1736	1760	1840	1850	1843	1088
45°	1344	1367	1412	1476	1484	1037
55°	942	957	1004	1060	1090	840
65°	552	566	600	643	680	547
75°	221	233	250	262	277	242
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



TEST NUMBER: P555631

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-97-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2582.3	2582.3	2582.3	2582.3	2582.3
2.5°	2589.2	2590.2	2584.3	2568.4	2558.5
5°	2579.3	2578.3	2568.4	2554.5	2546.6
7.5°	2550.6	2552.5	2549.6	2529.7	2518.8
10°	2522.8	2523.8	2515.8	2500.0	2487.1
12.5°	2487.1	2486.1	2475.2	2467.2	2446.4
15°	2430.5	2436.5	2430.5	2419.6	2402.7
17.5°	2376.0	2376.0	2379.9	2361.1	2348.2
20°	2314.5	2317.4	2317.4	2302.5	2287.7
22.5°	2243.0	2252.0	2254.9	2239.1	2221.2
25°	2158.7	2175.6	2185.5	2169.6	2150.8
27.5°	2056.5	2082.3	2112.1	2100.2	2079.3
30°	1942.4	1980.1	2029.7	2019.8	2004.9
32.5°	1834.3	1872.0	1940.4	1936.5	1928.5
35°	1736.1	1759.9	1840.3	1850.2	1843.2
37.5°	1642.8	1664.7	1740.1	1762.9	1756.9
40°	1544.6	1568.4	1628.0	1668.6	1670.6
42.5°	1447.4	1470.2	1518.8	1577.4	1577.4
45°	1344.2	1367.0	1411.7	1476.2	1484.1
47.5°	1243.0	1266.8	1310.5	1375.0	1387.9
50°	1143.8	1165.7	1209.3	1271.8	1291.6
52.5°	1040.7	1064.5	1107.1	1164.7	1193.4
55°	941.5	957.3	1004.0	1059.5	1090.3
57.5°	838.3	853.2	905.7	953.4	985.1
60°	739.1	757.9	798.6	847.2	883.9
62.5°	643.8	663.7	698.4	741.1	782.7
65°	551.6	566.5	600.2	642.8	679.6
67.5°	462.3	475.2	508.9	538.7	577.4
70°	372.0	388.9	413.7	442.5	467.3
72.5°	299.6	306.5	327.4	348.2	374.0
75°	221.2	233.1	250.0	261.9	276.8
77.5°	158.7	165.7	175.6	185.5	199.4
80°	106.1	109.1	118.1	120.0	131.0
82.5°	64.5	66.5	68.5	69.4	73.4
85°	34.7	34.7	34.7	32.7	32.7
87.5°	19.8	19.8	16.9	13.9	9.9
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)