

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: P554221

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-93-96-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: P554221
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-LD4-1LO-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

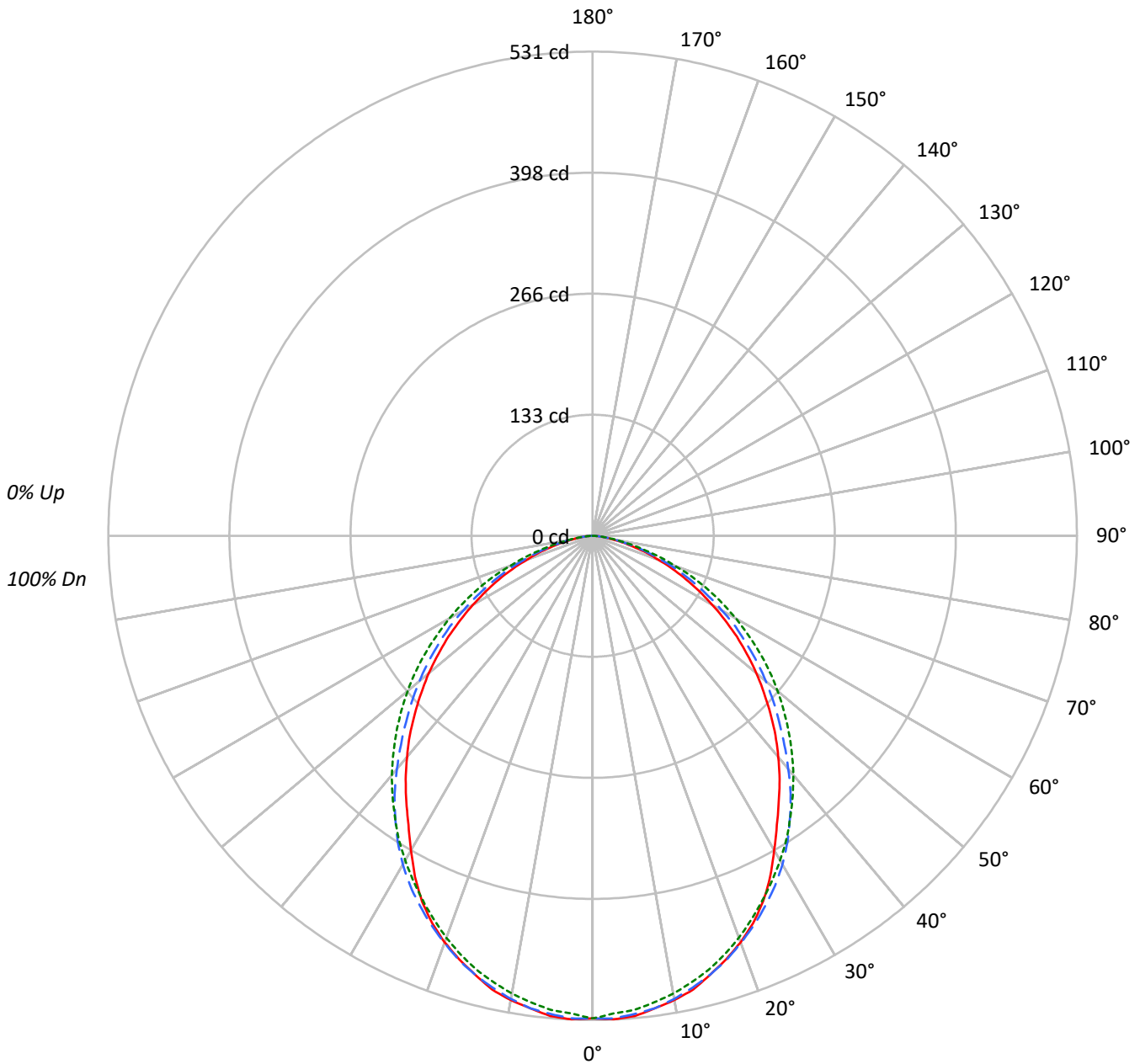
Lumens per Lamp: N/A
Luminaire Lumens: 1224.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554221

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-93-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554221

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-93-96-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°	2849	2849	2849
5°	2856	2844	2820
10°	2826	2818	2786
15°	2776	2776	2744
20°	2717	2721	2686
25°	2628	2660	2618
30°	2475	2586	2554
35°	2338	2478	2482
40°	2224	2344	2406
45°	2098	2203	2315
50°	1963	2076	2217
55°	1811	1931	2097
60°	1631	1762	1950
65°	1440	1566	1774
70°	1201	1334	1507
75°	942	1065	1179
80°	676	750	831
85°	438	438	414



TEST NUMBER: P554221

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-93-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	4.1
10°-20°	140.0	11.4
20°-30°	204.6	16.7
30°-40°	232.3	19.0
40°-50°	224.2	18.3
50°-60°	184.9	15.1
60°-70°	123.2	10.1
70°-80°	55.1	4.5
80°-90°	9.8	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°	394.5	32.2
0°-40°	626.7	51.2
0°-60°	1035.9	84.6
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	529	528	526	524	522	50
15°	498	500	498	496	492	140
25°	442	446	448	445	441	203
35°	356	361	377	379	378	223
45°	276	280	289	303	304	213
55°	193	196	206	217	224	172
65°	113	116	123	132	139	112
75°	45	48	51	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



TEST NUMBER: P554221

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-93-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.3	529.3	529.3	529.3	529.3
2.5°	530.8	531.0	529.8	526.5	524.5
5°	528.7	528.5	526.5	523.7	522.0
7.5°	522.8	523.2	522.6	518.6	516.3
10°	517.1	517.4	515.7	512.5	509.8
12.5°	509.8	509.6	507.4	505.8	501.5
15°	498.2	499.5	498.2	496.0	492.5
17.5°	487.0	487.0	487.9	484.0	481.4
20°	474.4	475.1	475.1	472.0	469.0
22.5°	459.8	461.6	462.2	459.0	455.3
25°	442.5	446.0	448.0	444.8	440.9
27.5°	421.6	426.9	433.0	430.5	426.2
30°	398.2	405.9	416.1	414.0	411.0
32.5°	376.0	383.7	397.8	397.0	395.3
35°	355.9	360.8	377.2	379.3	377.8
37.5°	336.8	341.2	356.7	361.4	360.2
40°	316.6	321.5	333.7	342.1	342.5
42.5°	296.7	301.4	311.3	323.3	323.3
45°	275.6	280.2	289.4	302.6	304.2
47.5°	254.8	259.7	268.6	281.9	284.5
50°	234.5	238.9	247.9	260.7	264.8
52.5°	213.3	218.2	227.0	238.7	244.6
55°	193.0	196.2	205.8	217.2	223.5
57.5°	171.8	174.9	185.7	195.4	201.9
60°	151.5	155.4	163.7	173.7	181.2
62.5°	132.0	136.0	143.2	151.9	160.5
65°	113.1	116.1	123.0	131.8	139.3
67.5°	94.8	97.4	104.3	110.4	118.4
70°	76.3	79.7	84.8	90.7	95.8
72.5°	61.4	62.8	67.1	71.4	76.7
75°	45.3	47.8	51.2	53.7	56.7
77.5°	32.5	34.0	36.0	38.0	40.9
80°	21.8	22.4	24.2	24.6	26.8
82.5°	13.2	13.6	14.0	14.2	15.0
85°	7.1	7.1	7.1	6.7	6.7
87.5°	4.1	4.1	3.5	2.8	2.0
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)