

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: P554955

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-81-94-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: P554955
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-LD4-2LO-35-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

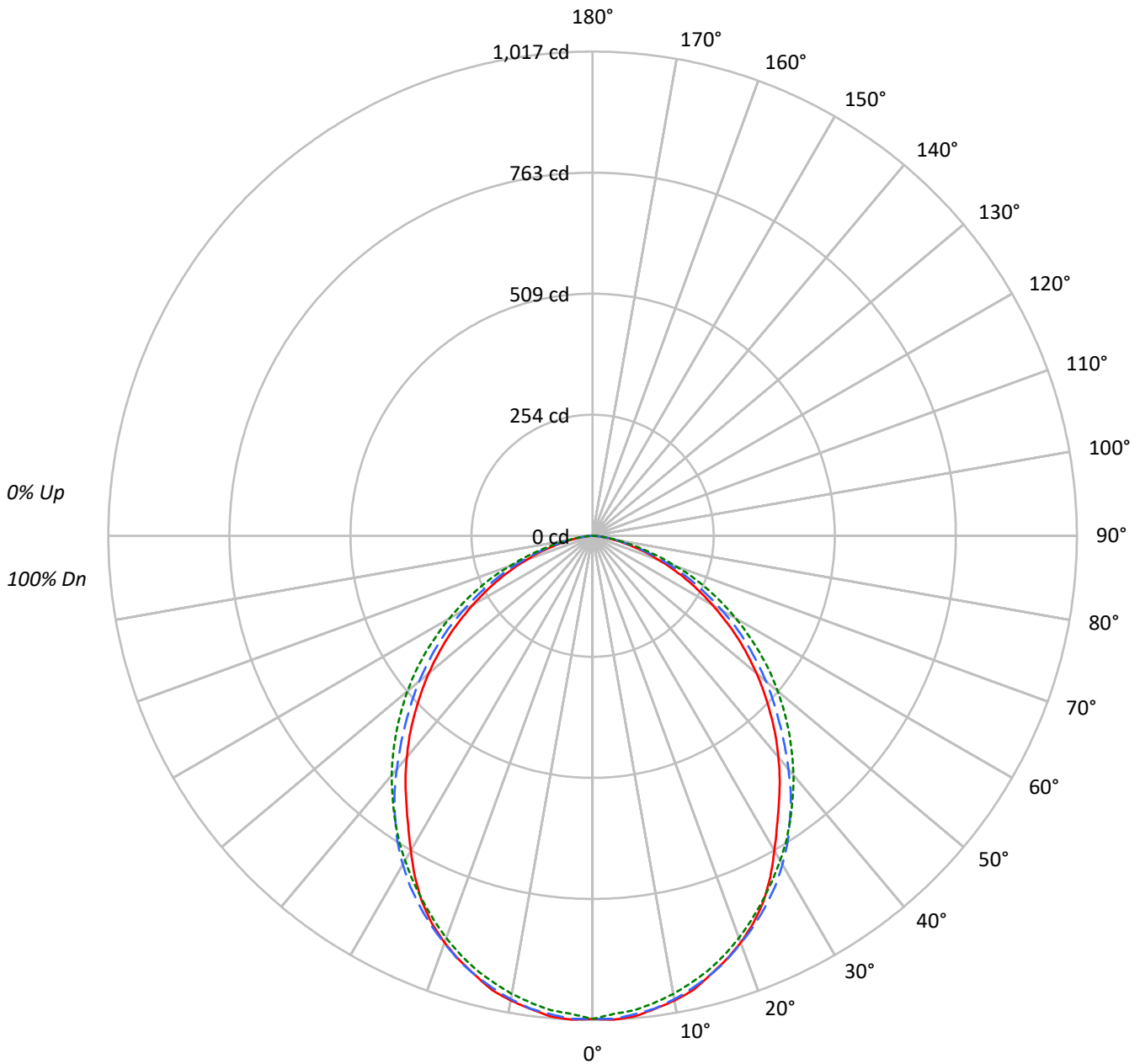
Lumens per Lamp: N/A
Luminaire Lumens: 2346.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P554955

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554955

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-94-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°	5461	5461	5461
5°	5475	5452	5406
10°	5417	5402	5340
15°	5321	5321	5260
20°	5208	5215	5148
25°	5037	5099	5018
30°	4743	4956	4895
35°	4482	4750	4758
40°	4264	4494	4612
45°	4019	4221	4438
50°	3763	3978	4249
55°	3471	3702	4020
60°	3126	3378	3738
65°	2760	3003	3400
70°	2301	2557	2889
75°	1807	2042	2260
80°	1292	1438	1596
85°	840	840	797



TEST NUMBER: P554955

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	4.1
10°-20°	268.4	11.4
20°-30°	392.2	16.7
30°-40°	445.1	19.0
40°-50°	429.7	18.3
50°-60°	354.5	15.1
60°-70°	236.1	10.1
70°-80°	105.6	4.5
80°-90°	18.9	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°	756.1	32.2
0°-40°	1201.2	51.2
0°-60°	1985.4	84.6
0°-90°	2346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1013	1013	1009	1004	1001	96
15°	955	957	955	951	944	269
25°	848	855	859	852	845	388
35°	682	692	723	727	724	427
45°	528	537	555	580	583	407
55°	370	376	394	416	428	330
65°	217	223	236	253	267	215
75°	87	92	98	103	109	95
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



TEST NUMBER: P554955

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.6	1014.6	1014.6	1014.6	1014.6
2.5°	1017.3	1017.7	1015.4	1009.1	1005.2
5°	1013.4	1013.0	1009.1	1003.7	1000.6
7.5°	1002.1	1002.9	1001.7	993.9	989.6
10°	991.2	991.6	988.5	982.2	977.2
12.5°	977.2	976.8	972.5	969.4	961.2
15°	954.9	957.3	954.9	950.7	944.0
17.5°	933.5	933.5	935.1	927.7	922.6
20°	909.3	910.5	910.5	904.7	898.8
22.5°	881.3	884.8	886.0	879.7	872.7
25°	848.2	854.8	858.7	852.4	845.0
27.5°	808.0	818.1	829.8	825.2	817.0
30°	763.2	778.0	797.5	793.6	787.7
32.5°	720.7	735.5	762.4	760.8	757.7
35°	682.1	691.5	723.0	726.9	724.2
37.5°	645.5	654.0	683.7	692.6	690.3
40°	606.9	616.2	639.6	655.6	656.4
42.5°	568.7	577.6	596.7	619.7	619.7
45°	528.1	537.1	554.6	580.0	583.1
47.5°	488.4	497.7	514.9	540.2	545.3
50°	449.4	458.0	475.1	499.7	507.5
52.5°	408.9	418.2	435.0	457.6	468.9
55°	369.9	376.1	394.5	416.3	428.4
57.5°	329.4	335.2	355.9	374.6	387.0
60°	290.4	297.8	313.8	332.9	347.3
62.5°	253.0	260.8	274.4	291.2	307.5
65°	216.7	222.6	235.8	252.6	267.0
67.5°	181.6	186.7	200.0	211.6	226.8
70°	146.2	152.8	162.5	173.8	183.6
72.5°	117.7	120.4	128.6	136.8	146.9
75°	86.9	91.6	98.2	102.9	108.7
77.5°	62.4	65.1	69.0	72.9	78.3
80°	41.7	42.9	46.4	47.2	51.5
82.5°	25.3	26.1	26.9	27.3	28.8
85°	13.6	13.6	13.6	12.9	12.9
87.5°	7.8	7.8	6.6	5.5	3.9
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)