

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: P554951

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-81-87-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: P554951
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

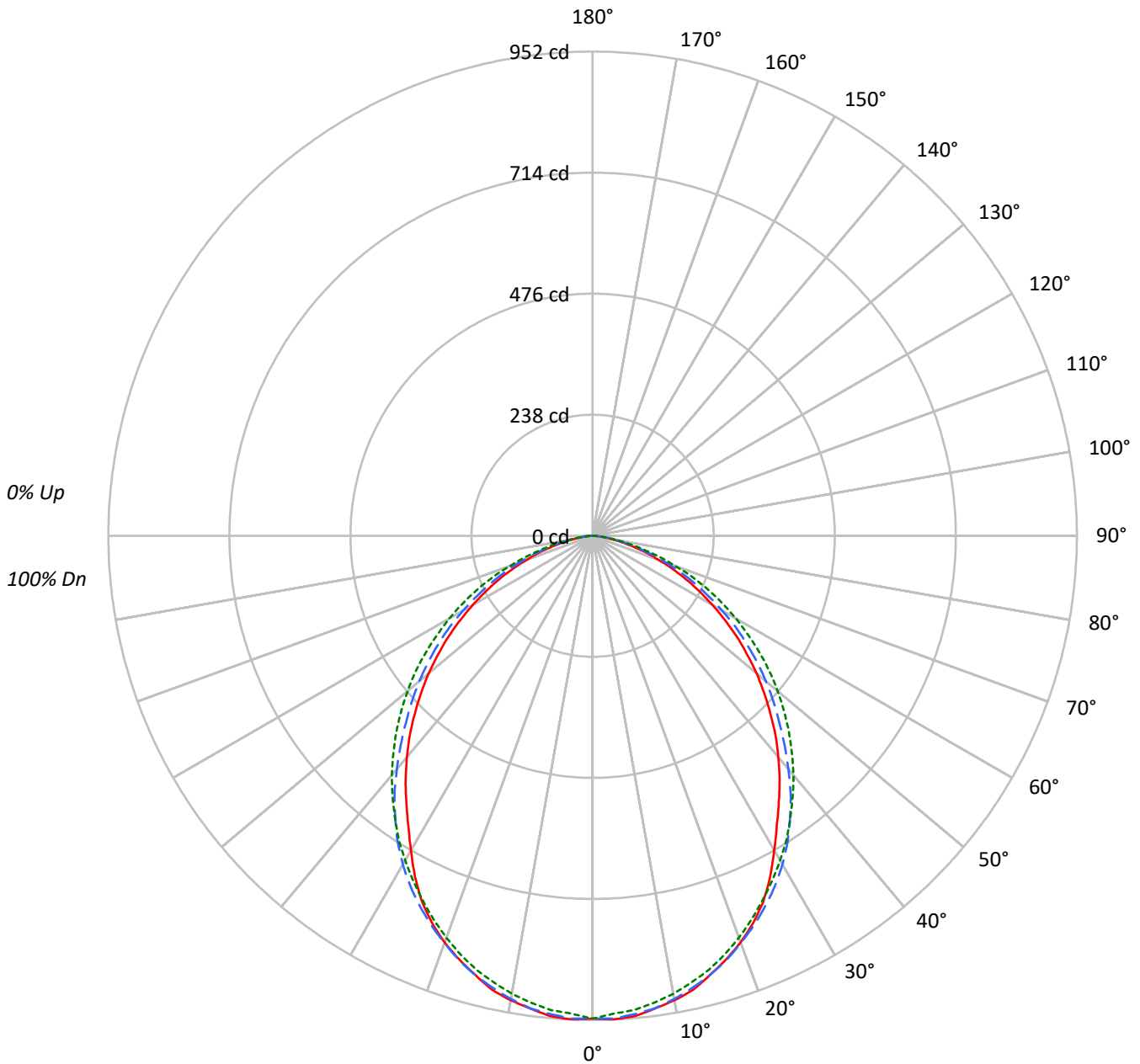
Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): 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: P554951

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554951

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-87-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°	5109	5109	5109
5°	5123	5101	5058
10°	5068	5054	4997
15°	4978	4978	4922
20°	4873	4879	4817
25°	4713	4771	4695
30°	4438	4637	4580
35°	4193	4445	4452
40°	3989	4205	4314
45°	3761	3949	4153
50°	3521	3723	3975
55°	3248	3463	3761
60°	2925	3160	3497
65°	2583	2809	3181
70°	2153	2393	2703
75°	1691	1911	2115
80°	1209	1345	1491
85°	790	790	741



TEST NUMBER: P554951

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.1
10°-20°	251.1	11.4
20°-30°	366.9	16.7
30°-40°	416.5	19.0
40°-50°	402.1	18.3
50°-60°	331.7	15.1
60°-70°	220.9	10.1
70°-80°	98.8	4.5
80°-90°	17.7	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°	707.4	32.2
0°-40°	1123.9	51.2
0°-60°	1857.6	84.6
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	948	948	944	939	936	90
15°	894	896	894	890	883	252
25°	794	800	803	798	791	363
35°	638	647	676	680	678	400
45°	494	502	519	543	546	381
55°	346	352	369	390	401	309
65°	203	208	221	236	250	201
75°	81	86	92	96	102	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



TEST NUMBER: P554951

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-81-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.3	949.3	949.3	949.3	949.3
2.5°	951.8	952.2	950.0	944.2	940.5
5°	948.2	947.8	944.2	939.1	936.2
7.5°	937.6	938.3	937.2	930.0	925.9
10°	927.4	927.8	924.8	919.0	914.3
12.5°	914.3	913.9	909.9	907.0	899.3
15°	893.5	895.7	893.5	889.5	883.3
17.5°	873.4	873.4	874.9	868.0	863.2
20°	850.8	851.9	851.9	846.4	841.0
22.5°	824.6	827.8	828.9	823.1	816.5
25°	793.6	799.8	803.4	797.6	790.6
27.5°	756.0	765.5	776.4	772.0	764.4
30°	714.1	727.9	746.2	742.5	737.0
32.5°	674.3	688.2	713.3	711.9	709.0
35°	638.2	647.0	676.5	680.1	677.6
37.5°	603.9	611.9	639.7	648.0	645.9
40°	567.8	576.6	598.5	613.4	614.1
42.5°	532.1	540.5	558.3	579.9	579.9
45°	494.2	502.5	518.9	542.7	545.6
47.5°	457.0	465.7	481.8	505.5	510.2
50°	420.5	428.5	444.6	467.5	474.8
52.5°	382.6	391.3	407.0	428.1	438.7
55°	346.1	351.9	369.1	389.5	400.8
57.5°	308.2	313.6	333.0	350.5	362.1
60°	271.7	278.6	293.6	311.4	324.9
62.5°	236.7	244.0	256.7	272.4	287.7
65°	202.8	208.2	220.6	236.3	249.8
67.5°	169.9	174.7	187.1	198.0	212.2
70°	136.8	143.0	152.1	162.7	171.8
72.5°	110.1	112.7	120.3	128.0	137.5
75°	81.3	85.7	91.9	96.3	101.7
77.5°	58.3	60.9	64.5	68.2	73.3
80°	39.0	40.1	43.4	44.1	48.1
82.5°	23.7	24.4	25.2	25.5	27.0
85°	12.8	12.8	12.8	12.0	12.0
87.5°	7.3	7.3	6.2	5.1	3.6
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)