

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: P553935

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-97-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: P553935
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-LD4-1HI-35-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

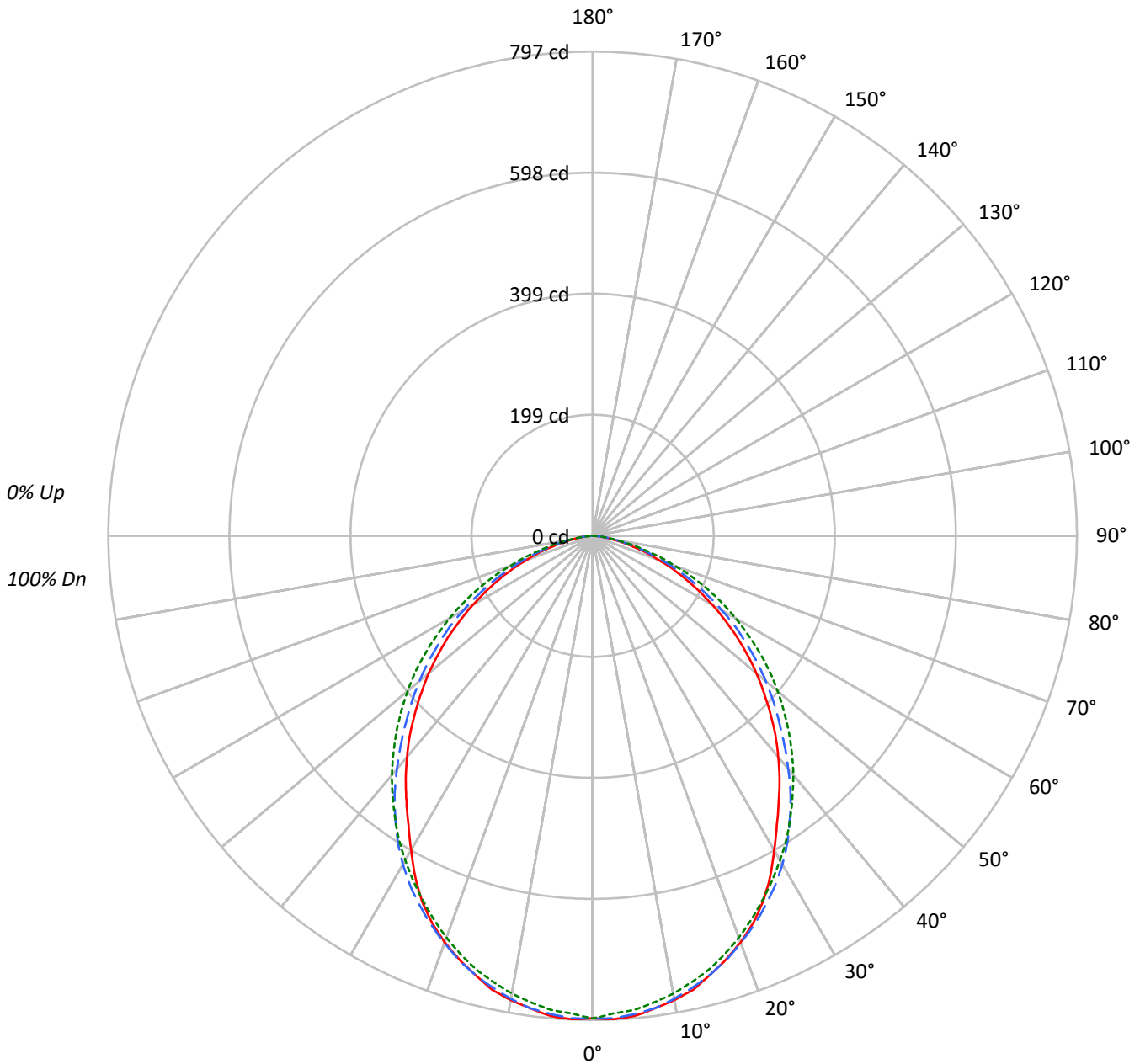
Lumens per Lamp: N/A
Luminaire Lumens: 1837.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553935

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-81-97-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P553935

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-81-97-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°	4276	4276	4276
5°	4287	4269	4233
10°	4241	4230	4182
15°	4167	4167	4119
20°	4078	4084	4031
25°	3944	3993	3929
30°	3714	3881	3833
35°	3509	3720	3726
40°	3339	3518	3611
45°	3148	3306	3475
50°	2946	3115	3327
55°	2717	2898	3147
60°	2448	2645	2927
65°	2161	2352	2663
70°	1802	2003	2263
75°	1416	1599	1772
80°	1013	1125	1249
85°	661	661	624



TEST NUMBER: P553935

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-81-97-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	4.1
10°-20°	210.1	11.4
20°-30°	307.1	16.7
30°-40°	348.6	19.0
40°-50°	336.5	18.3
50°-60°	277.6	15.1
60°-70°	184.9	10.1
70°-80°	82.7	4.5
80°-90°	14.8	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°	592.0	32.2
0°-40°	940.6	51.2
0°-60°	1554.6	84.6
0°-90°	1837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	794	793	790	786	784	75
15°	748	750	748	744	739	211
25°	664	669	672	668	662	304
35°	534	541	566	569	567	335
45°	414	421	434	454	457	319
55°	290	294	309	326	335	259
65°	170	174	185	198	209	168
75°	68	72	77	81	85	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



TEST NUMBER: P553935

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-81-97-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.5	794.5	794.5	794.5	794.5
2.5°	796.6	796.9	795.1	790.2	787.1
5°	793.5	793.2	790.2	785.9	783.5
7.5°	784.7	785.3	784.4	778.3	774.9
10°	776.1	776.4	774.0	769.1	765.2
12.5°	765.2	764.8	761.5	759.1	752.6
15°	747.8	749.6	747.8	744.4	739.2
17.5°	731.0	731.0	732.2	726.4	722.4
20°	712.0	713.0	713.0	708.4	703.8
22.5°	690.1	692.8	693.7	688.9	683.4
25°	664.1	669.3	672.4	667.5	661.7
27.5°	632.7	640.6	649.8	646.1	639.7
30°	597.6	609.2	624.5	621.4	616.8
32.5°	564.3	575.9	597.0	595.8	593.3
35°	534.1	541.4	566.2	569.2	567.1
37.5°	505.4	512.1	535.3	542.4	540.5
40°	475.2	482.5	500.8	513.4	514.0
42.5°	445.3	452.3	467.3	485.3	485.3
45°	413.6	420.6	434.3	454.1	456.6
47.5°	382.4	389.7	403.2	423.0	427.0
50°	351.9	358.6	372.0	391.3	397.4
52.5°	320.2	327.5	340.6	358.3	367.2
55°	289.6	294.5	308.9	326.0	335.4
57.5°	257.9	262.5	278.7	293.3	303.1
60°	227.4	233.2	245.7	260.6	271.9
62.5°	198.1	204.2	214.9	228.0	240.8
65°	169.7	174.3	184.7	197.8	209.1
67.5°	142.2	146.2	156.6	165.7	177.6
70°	114.5	119.6	127.3	136.1	143.8
72.5°	92.2	94.3	100.7	107.1	115.1
75°	68.1	71.7	76.9	80.6	85.2
77.5°	48.8	51.0	54.0	57.1	61.3
80°	32.7	33.6	36.3	36.9	40.3
82.5°	19.8	20.4	21.1	21.4	22.6
85°	10.7	10.7	10.7	10.1	10.1
87.5°	6.1	6.1	5.2	4.3	3.1
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)