

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: P553937

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-84-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: P553937
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

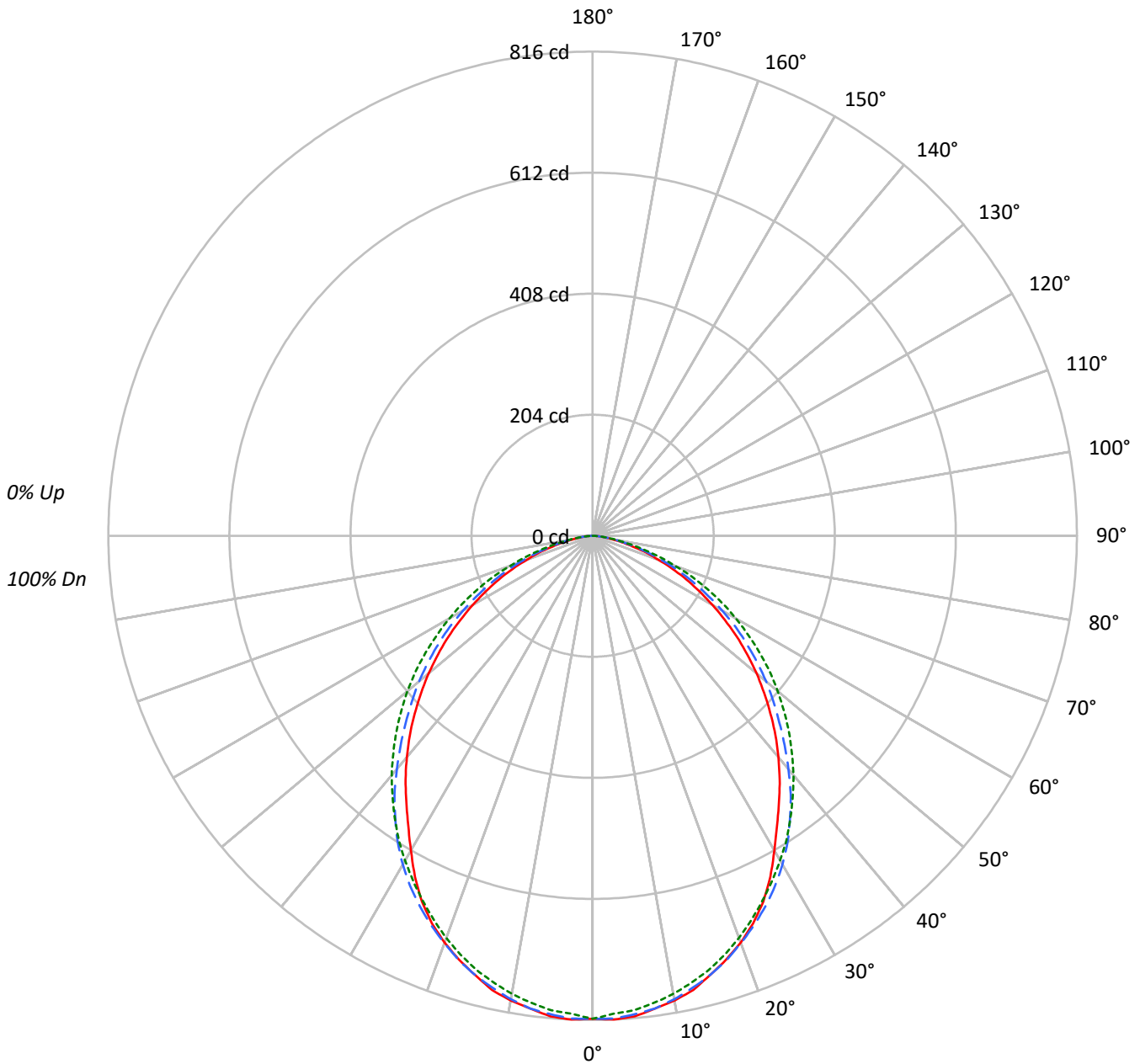
Lumens per Lamp: N/A
Luminaire Lumens: 1882.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553937

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P553937

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-84-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°	4380	4380	4380
5°	4392	4373	4337
10°	4346	4334	4284
15°	4269	4269	4220
20°	4178	4183	4129
25°	4040	4090	4026
30°	3805	3976	3927
35°	3595	3811	3817
40°	3420	3605	3700
45°	3225	3386	3561
50°	3018	3192	3409
55°	2784	2969	3224
60°	2507	2709	2999
65°	2215	2409	2728
70°	1846	2052	2318
75°	1449	1639	1813
80°	1038	1153	1280
85°	673	673	636



TEST NUMBER: P553937

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	4.1
10°-20°	215.3	11.4
20°-30°	314.6	16.7
30°-40°	357.1	19.0
40°-50°	344.7	18.3
50°-60°	284.4	15.1
60°-70°	189.4	10.1
70°-80°	84.7	4.5
80°-90°	15.2	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°	606.5	32.2
0°-40°	963.6	51.2
0°-60°	1592.7	84.6
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	813	813	810	805	803	77
15°	766	768	766	763	757	216
25°	680	686	689	684	678	312
35°	547	555	580	583	581	343
45°	424	431	445	465	468	327
55°	297	302	316	334	344	265
65°	174	178	189	203	214	172
75°	70	74	79	82	87	76
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



TEST NUMBER: P553937

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.9	813.9	813.9	813.9	813.9
2.5°	816.1	816.4	814.5	809.5	806.4
5°	813.0	812.7	809.5	805.2	802.7
7.5°	803.9	804.5	803.6	797.3	793.9
10°	795.2	795.5	793.0	788.0	783.9
12.5°	783.9	783.6	780.1	777.6	771.1
15°	766.1	768.0	766.1	762.6	757.3
17.5°	748.9	748.9	750.1	744.2	740.1
20°	729.5	730.4	730.4	725.7	721.0
22.5°	707.0	709.8	710.7	705.7	700.1
25°	680.4	685.7	688.8	683.8	677.9
27.5°	648.2	656.3	665.7	662.0	655.4
30°	612.2	624.1	639.8	636.6	631.9
32.5°	578.2	590.0	611.6	610.4	607.9
35°	547.2	554.7	580.0	583.2	581.0
37.5°	517.8	524.7	548.4	555.6	553.8
40°	486.8	494.4	513.1	525.9	526.6
42.5°	456.2	463.4	478.7	497.2	497.2
45°	423.7	430.9	444.9	465.3	467.8
47.5°	391.8	399.3	413.1	433.4	437.4
50°	360.5	367.4	381.2	400.9	407.1
52.5°	328.0	335.5	349.0	367.1	376.2
55°	296.7	301.7	316.4	333.9	343.6
57.5°	264.2	268.9	285.5	300.5	310.5
60°	232.9	238.9	251.7	267.0	278.6
62.5°	202.9	209.2	220.1	233.6	246.7
65°	173.9	178.5	189.2	202.6	214.2
67.5°	145.7	149.8	160.4	169.8	182.0
70°	117.3	122.6	130.4	139.5	147.3
72.5°	94.4	96.6	103.2	109.8	117.9
75°	69.7	73.5	78.8	82.5	87.2
77.5°	50.0	52.2	55.3	58.5	62.8
80°	33.5	34.4	37.2	37.8	41.3
82.5°	20.3	20.9	21.6	21.9	23.1
85°	10.9	10.9	10.9	10.3	10.3
87.5°	6.3	6.3	5.3	4.4	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)