

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: P553947

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-94-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: P553947
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

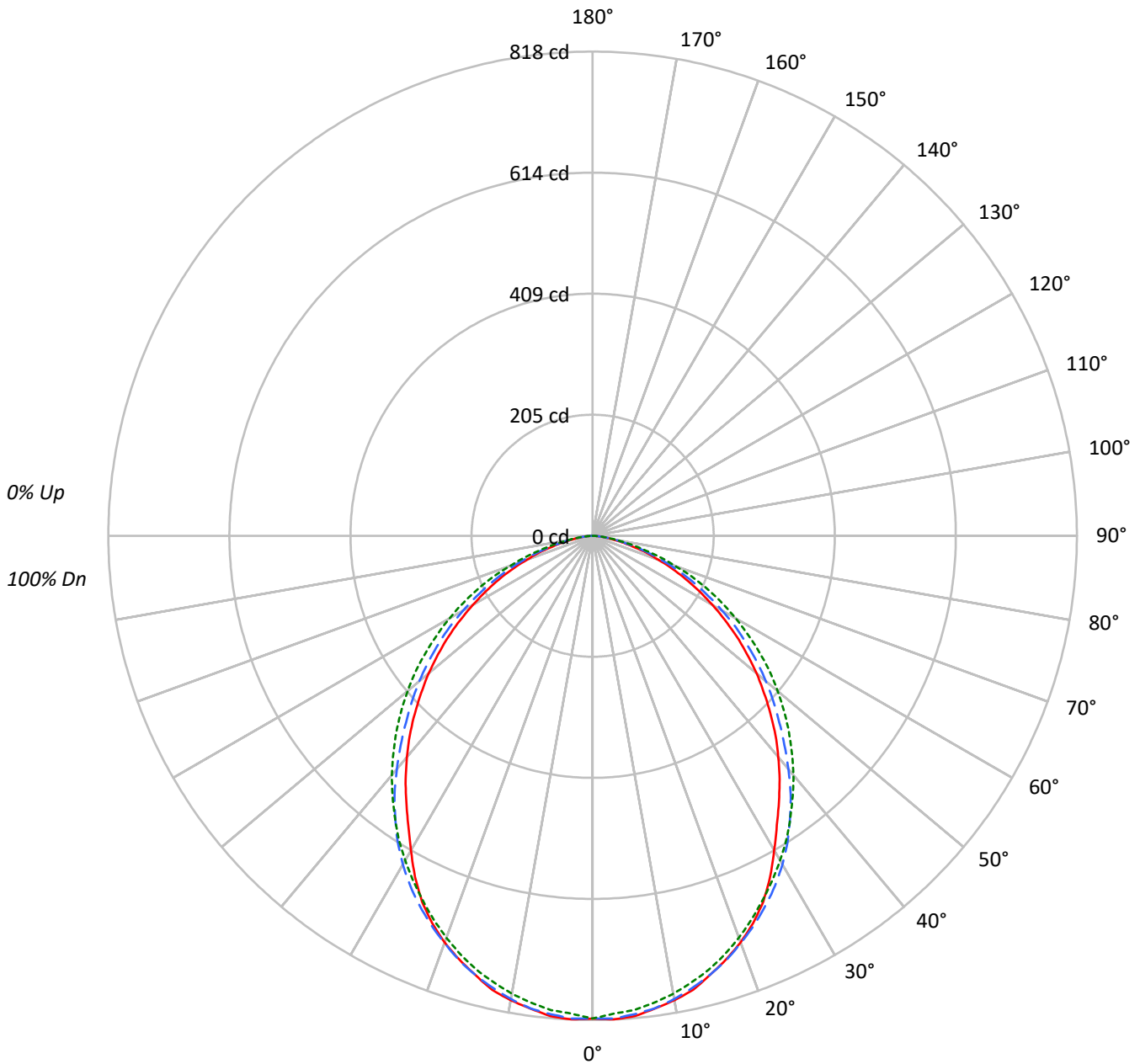
Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P553947

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-82-94-EDD

Luminous Intensity Polar Plot





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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°	4390	4390	4390
5°	4401	4383	4346
10°	4354	4343	4293
15°	4277	4277	4228
20°	4187	4192	4139
25°	4049	4099	4034
30°	3813	3984	3936
35°	3603	3819	3825
40°	3428	3613	3707
45°	3232	3394	3568
50°	3025	3198	3416
55°	2791	2975	3232
60°	2512	2715	3005
65°	2218	2415	2733
70°	1849	2057	2323
75°	1454	1643	1817
80°	1038	1156	1283
85°	679	679	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	4.1
10°-20°	215.7	11.4
20°-30°	315.3	16.7
30°-40°	357.9	19.0
40°-50°	345.5	18.3
50°-60°	285.0	15.1
60°-70°	189.8	10.1
70°-80°	84.9	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°	607.8	32.2
0°-40°	965.7	51.2
0°-60°	1596.1	84.6
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	815	814	811	807	804	77
15°	768	770	768	764	759	216
25°	682	687	690	685	679	312
35°	548	556	581	584	582	344
45°	425	432	446	466	469	328
55°	297	302	317	335	344	265
65°	174	179	190	203	215	173
75°	70	74	79	83	87	76
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.6	815.6	815.6	815.6	815.6
2.5°	817.8	818.2	816.3	811.3	808.1
5°	814.7	814.4	811.3	806.9	804.4
7.5°	805.6	806.2	805.3	799.0	795.6
10°	796.8	797.2	794.7	789.6	785.6
12.5°	785.6	785.3	781.8	779.3	772.7
15°	767.7	769.6	767.7	764.3	758.9
17.5°	750.5	750.5	751.7	745.8	741.7
20°	731.0	732.0	732.0	727.3	722.6
22.5°	708.5	711.3	712.2	707.2	701.6
25°	681.8	687.2	690.3	685.3	679.3
27.5°	649.6	657.7	667.1	663.4	656.8
30°	613.5	625.4	641.1	638.0	633.3
32.5°	579.4	591.3	612.9	611.7	609.1
35°	548.4	555.9	581.3	584.4	582.2
37.5°	518.9	525.8	549.6	556.8	554.9
40°	487.9	495.4	514.2	527.1	527.7
42.5°	457.2	464.4	479.7	498.2	498.2
45°	424.6	431.8	445.9	466.3	468.8
47.5°	392.6	400.1	413.9	434.3	438.4
50°	361.3	368.2	382.0	401.7	408.0
52.5°	328.7	336.2	349.7	367.9	377.0
55°	297.4	302.4	317.1	334.7	344.4
57.5°	264.8	269.5	286.1	301.1	311.2
60°	233.4	239.4	252.2	267.6	279.2
62.5°	203.4	209.6	220.6	234.1	247.2
65°	174.2	178.9	189.6	203.0	214.6
67.5°	146.0	150.1	160.7	170.1	182.4
70°	117.5	122.8	130.7	139.8	147.6
72.5°	94.6	96.8	103.4	110.0	118.1
75°	69.9	73.6	79.0	82.7	87.4
77.5°	50.1	52.3	55.5	58.6	63.0
80°	33.5	34.5	37.3	37.9	41.4
82.5°	20.4	21.0	21.6	21.9	23.2
85°	11.0	11.0	11.0	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)