

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: P554921

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-88-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: P554921
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-30-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

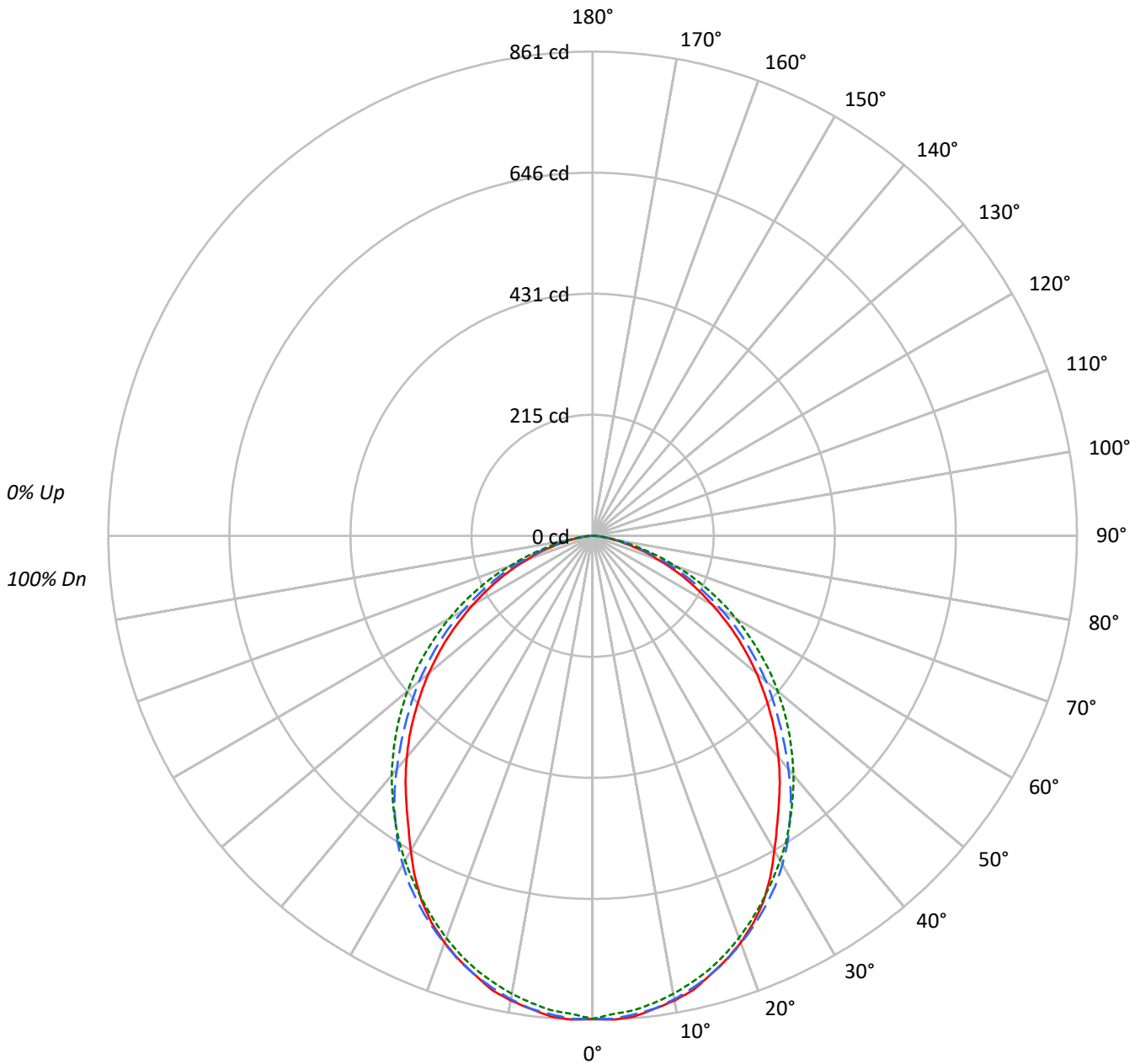
Lumens per Lamp: N/A
Luminaire Lumens: 1986.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554921

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-88-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°	4623	4623	4623
5°	4635	4615	4576
10°	4586	4573	4521
15°	4504	4504	4453
20°	4409	4415	4358
25°	4264	4317	4248
30°	4015	4195	4144
35°	3794	4022	4028
40°	3610	3804	3904
45°	3403	3573	3757
50°	3185	3368	3597
55°	2938	3133	3402
60°	2646	2859	3165
65°	2337	2542	2878
70°	1947	2165	2445
75°	1530	1730	1915
80°	1094	1218	1351
85°	710	710	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	4.1
10°-20°	227.2	11.4
20°-30°	332.0	16.7
30°-40°	376.8	19.0
40°-50°	363.8	18.3
50°-60°	300.1	15.1
60°-70°	199.8	10.1
70°-80°	89.4	4.5
80°-90°	16.0	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°	640.0	32.2
0°-40°	1016.9	51.2
0°-60°	1680.7	84.6
0°-90°	1986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	858	858	854	850	847	81
15°	808	810	808	805	799	228
25°	718	724	727	722	715	329
35°	577	585	612	615	613	362
45°	447	455	470	491	494	345
55°	313	318	334	352	363	279
65°	184	188	200	214	226	182
75°	74	78	83	87	92	80
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.9	858.9	858.9	858.9	858.9
2.5°	861.2	861.5	859.6	854.3	851.0
5°	857.9	857.6	854.3	849.7	847.0
7.5°	848.3	849.0	848.0	841.4	837.8
10°	839.1	839.4	836.8	831.5	827.2
12.5°	827.2	826.9	823.3	820.6	813.7
15°	808.4	810.4	808.4	804.8	799.2
17.5°	790.3	790.3	791.6	785.3	781.0
20°	769.8	770.8	770.8	765.8	760.9
22.5°	746.0	749.0	750.0	744.7	738.8
25°	718.0	723.6	726.9	721.6	715.4
27.5°	684.0	692.6	702.5	698.5	691.6
30°	646.1	658.6	675.1	671.8	666.9
32.5°	610.1	622.6	645.4	644.1	641.4
35°	577.4	585.4	612.1	615.4	613.1
37.5°	546.4	553.7	578.8	586.3	584.4
40°	513.8	521.7	541.5	555.0	555.7
42.5°	481.4	489.0	505.2	524.6	524.6
45°	447.1	454.7	469.5	491.0	493.6
47.5°	413.4	421.4	435.9	457.3	461.6
50°	380.4	387.7	402.2	423.0	429.6
52.5°	346.1	354.1	368.2	387.4	396.9
55°	313.1	318.4	333.9	352.4	362.6
57.5°	278.8	283.8	301.3	317.1	327.7
60°	245.8	252.1	265.6	281.8	294.0
62.5°	214.1	220.7	232.3	246.5	260.3
65°	183.5	188.4	199.6	213.8	226.0
67.5°	153.8	158.1	169.3	179.2	192.0
70°	123.7	129.3	137.6	147.2	155.4
72.5°	99.6	102.0	108.9	115.8	124.4
75°	73.6	77.5	83.2	87.1	92.1
77.5°	52.8	55.1	58.4	61.7	66.3
80°	35.3	36.3	39.3	39.9	43.6
82.5°	21.4	22.1	22.8	23.1	24.4
85°	11.5	11.5	11.5	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)