

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: P554113

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-84-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: P554113
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-LD4-1LO-30-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

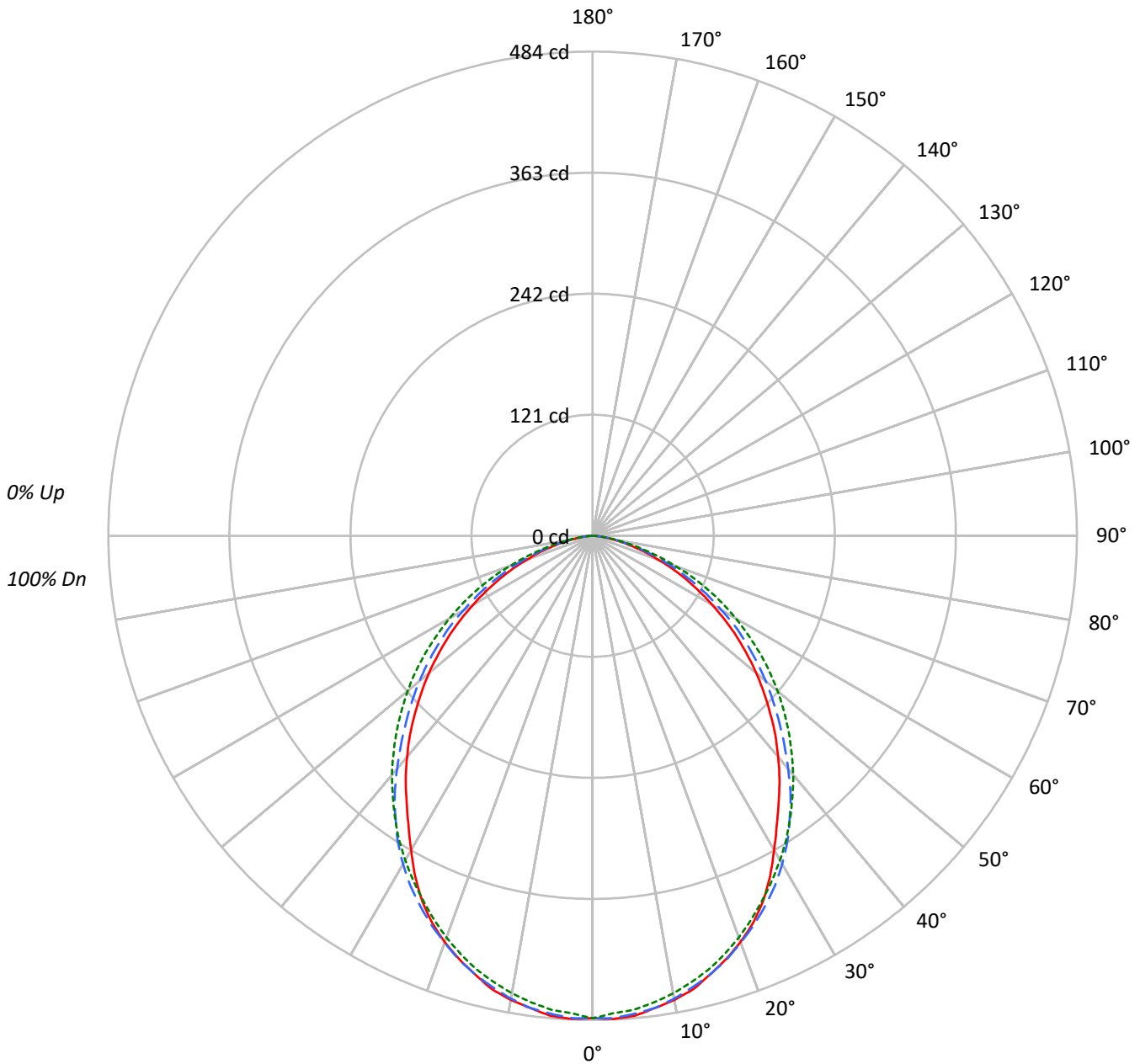
Lumens per Lamp: N/A
Luminaire Lumens: 1115.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

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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°	2595	2595	2595
5°	2602	2591	2569
10°	2575	2567	2538
15°	2529	2529	2500
20°	2475	2478	2447
25°	2394	2423	2385
30°	2254	2355	2327
35°	2130	2258	2261
40°	2026	2136	2192
45°	1910	2006	2109
50°	1788	1891	2020
55°	1650	1759	1910
60°	1485	1605	1777
65°	1312	1428	1616
70°	1094	1215	1374
75°	859	971	1075
80°	614	682	759
85°	401	401	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	4.1
10°-20°	127.5	11.4
20°-30°	186.4	16.7
30°-40°	211.6	19.0
40°-50°	204.2	18.3
50°-60°	168.5	15.1
60°-70°	112.2	10.1
70°-80°	50.2	4.5
80°-90°	9.0	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°	359.3	32.2
0°-40°	570.9	51.2
0°-60°	943.6	84.6
0°-90°	1115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	482	482	480	477	476	46
15°	454	455	454	452	449	128
25°	403	406	408	405	402	185
35°	324	329	344	346	344	203
45°	251	255	264	276	277	194
55°	176	179	188	198	204	157
65°	103	106	112	120	127	102
75°	41	44	47	49	52	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.2	482.2	482.2	482.2	482.2
2.5°	483.5	483.7	482.6	479.6	477.8
5°	481.7	481.5	479.6	477.0	475.5
7.5°	476.3	476.7	476.1	472.4	470.4
10°	471.1	471.3	469.8	466.8	464.4
12.5°	464.4	464.2	462.2	460.7	456.8
15°	453.9	455.0	453.9	451.8	448.7
17.5°	443.7	443.7	444.4	440.9	438.5
20°	432.2	432.7	432.7	430.0	427.2
22.5°	418.9	420.5	421.1	418.1	414.8
25°	403.1	406.3	408.1	405.1	401.6
27.5°	384.0	388.8	394.4	392.2	388.3
30°	362.7	369.8	379.0	377.2	374.4
32.5°	342.5	349.6	362.4	361.6	360.1
35°	324.2	328.6	343.6	345.5	344.2
37.5°	306.8	310.9	324.9	329.2	328.1
40°	288.4	292.9	304.0	311.6	312.0
42.5°	270.3	274.5	283.6	294.5	294.5
45°	251.0	255.3	263.6	275.7	277.1
47.5°	232.1	236.6	244.7	256.8	259.2
50°	213.6	217.7	225.8	237.5	241.2
52.5°	194.3	198.8	206.7	217.5	222.9
55°	175.8	178.8	187.5	197.8	203.6
57.5°	156.5	159.3	169.1	178.0	184.0
60°	138.0	141.5	149.1	158.2	165.1
62.5°	120.2	123.9	130.4	138.4	146.2
65°	103.0	105.8	112.1	120.0	126.9
67.5°	86.3	88.7	95.0	100.6	107.8
70°	69.5	72.6	77.2	82.6	87.3
72.5°	55.9	57.2	61.1	65.0	69.8
75°	41.3	43.5	46.7	48.9	51.7
77.5°	29.6	30.9	32.8	34.6	37.2
80°	19.8	20.4	22.0	22.4	24.5
82.5°	12.0	12.4	12.8	13.0	13.7
85°	6.5	6.5	6.5	6.1	6.1
87.5°	3.7	3.7	3.1	2.6	1.9
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)