

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: P554307

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-85-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: P554307
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-50-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

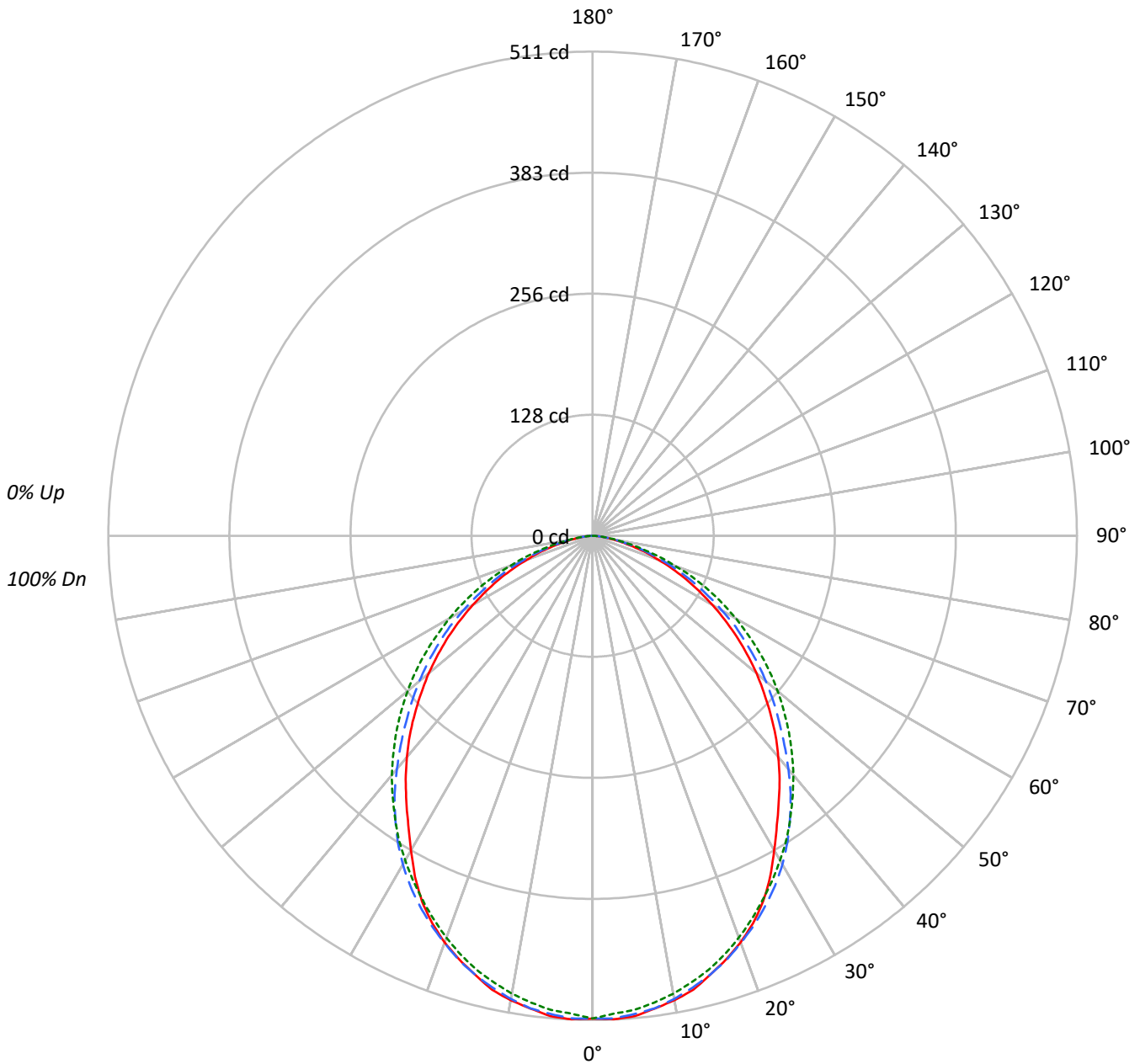
Lumens per Lamp: N/A
Luminaire Lumens: 1178.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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

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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°	2742	2742	2742
5°	2749	2737	2714
10°	2720	2712	2682
15°	2672	2672	2641
20°	2615	2619	2585
25°	2529	2561	2520
30°	2381	2488	2458
35°	2250	2386	2389
40°	2141	2257	2316
45°	2019	2120	2229
50°	1890	1998	2133
55°	1742	1859	2018
60°	1569	1696	1877
65°	1386	1508	1708
70°	1155	1284	1451
75°	907	1025	1135
80°	648	722	800
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	4.1
10°-20°	134.8	11.4
20°-30°	196.9	16.7
30°-40°	223.5	19.0
40°-50°	215.8	18.3
50°-60°	178.0	15.1
60°-70°	118.5	10.1
70°-80°	53.0	4.5
80°-90°	9.5	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°	379.6	32.2
0°-40°	603.2	51.2
0°-60°	996.9	84.6
0°-90°	1178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	509	509	507	504	502	48
15°	480	481	480	477	474	135
25°	426	429	431	428	424	195
35°	342	347	363	365	364	215
45°	265	270	278	291	293	205
55°	186	189	198	209	215	166
65°	109	112	118	127	134	108
75°	44	46	49	52	55	48
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.5	509.5	509.5	509.5	509.5
2.5°	510.8	511.0	509.8	506.7	504.8
5°	508.9	508.7	506.7	504.0	502.4
7.5°	503.2	503.6	503.0	499.1	496.9
10°	497.7	497.9	496.3	493.2	490.7
12.5°	490.7	490.5	488.3	486.8	482.6
15°	479.5	480.7	479.5	477.4	474.0
17.5°	468.7	468.7	469.5	465.8	463.3
20°	456.6	457.2	457.2	454.3	451.3
22.5°	442.5	444.3	444.9	441.7	438.2
25°	425.9	429.2	431.2	428.0	424.3
27.5°	405.7	410.8	416.7	414.3	410.2
30°	383.2	390.7	400.4	398.5	395.5
32.5°	361.9	369.3	382.8	382.0	380.5
35°	342.5	347.2	363.1	365.0	363.6
37.5°	324.1	328.4	343.3	347.8	346.6
40°	304.7	309.4	321.2	329.2	329.6
42.5°	285.6	290.1	299.6	311.2	311.2
45°	265.2	269.7	278.5	291.2	292.8
47.5°	245.2	249.9	258.5	271.3	273.8
50°	225.7	230.0	238.6	250.9	254.8
52.5°	205.3	210.0	218.4	229.8	235.4
55°	185.7	188.9	198.1	209.0	215.1
57.5°	165.4	168.3	178.7	188.1	194.3
60°	145.8	149.5	157.6	167.1	174.4
62.5°	127.0	130.9	137.8	146.2	154.4
65°	108.8	111.8	118.4	126.8	134.1
67.5°	91.2	93.7	100.4	106.3	113.9
70°	73.4	76.7	81.6	87.3	92.2
72.5°	59.1	60.5	64.6	68.7	73.8
75°	43.6	46.0	49.3	51.7	54.6
77.5°	31.3	32.7	34.6	36.6	39.3
80°	20.9	21.5	23.3	23.7	25.8
82.5°	12.7	13.1	13.5	13.7	14.5
85°	6.9	6.9	6.9	6.5	6.5
87.5°	3.9	3.9	3.3	2.7	2.0
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)