

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: P554179

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554179
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

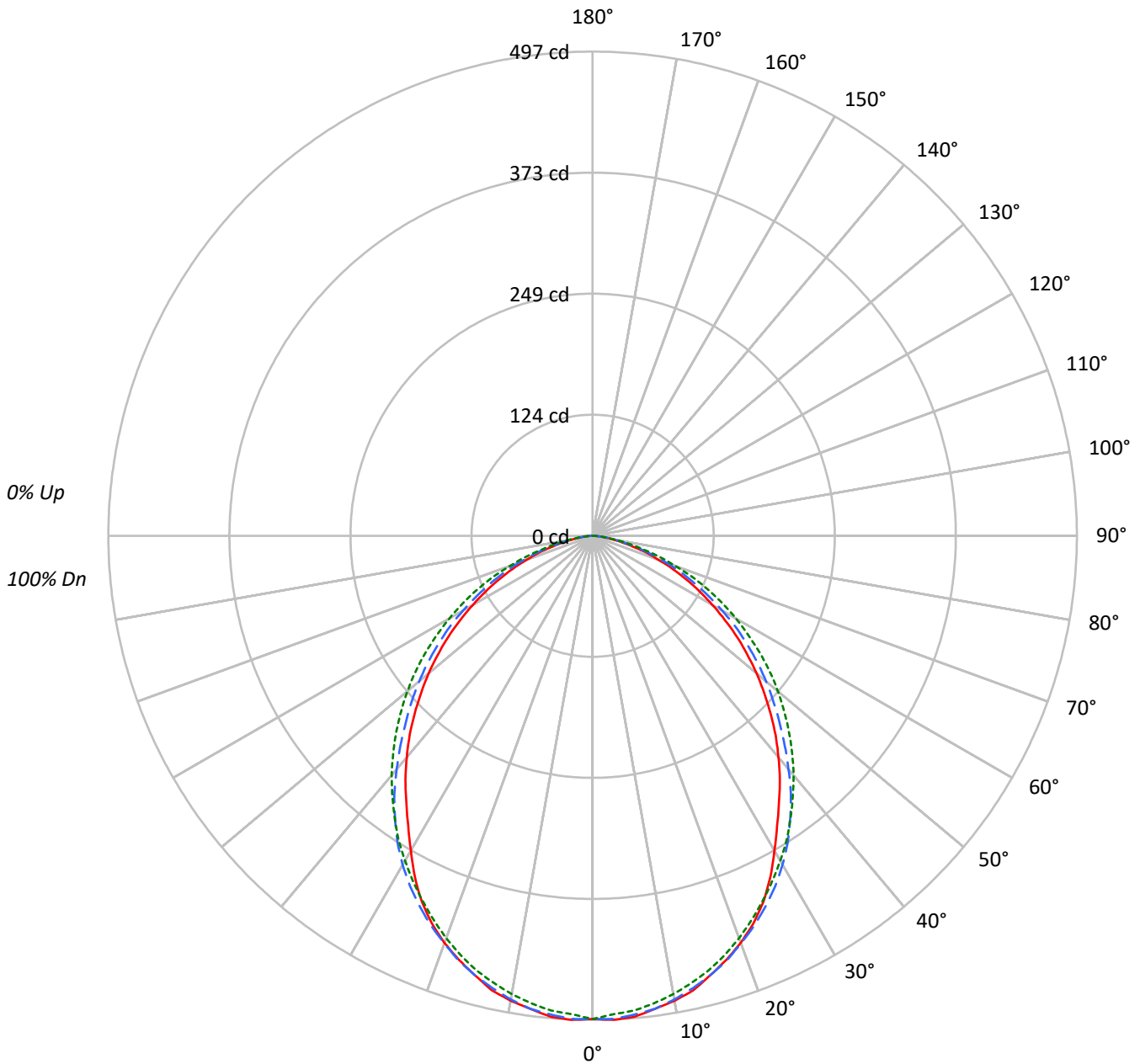
Lumens per Lamp: N/A
Luminaire Lumens: 1147.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2669	2669	2669
5°	2677	2666	2643
10°	2648	2641	2611
15°	2601	2601	2572
20°	2546	2550	2517
25°	2463	2493	2454
30°	2319	2423	2393
35°	2191	2323	2326
40°	2085	2197	2255
45°	1965	2064	2170
50°	1840	1945	2077
55°	1696	1810	1965
60°	1528	1651	1828
65°	1350	1468	1662
70°	1125	1251	1413
75°	884	998	1106
80°	632	704	781
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	4.1
10°-20°	131.2	11.4
20°-30°	191.7	16.7
30°-40°	217.6	19.0
40°-50°	210.1	18.3
50°-60°	173.3	15.1
60°-70°	115.4	10.1
70°-80°	51.7	4.5
80°-90°	9.2	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°	369.6	32.2
0°-40°	587.3	51.2
0°-60°	970.7	84.6
0°-90°	1147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	496	495	493	491	489	47
15°	467	468	467	465	462	132
25°	415	418	420	417	413	190
35°	334	338	354	355	354	209
45°	258	263	271	284	285	199
55°	181	184	193	204	209	161
65°	106	109	115	124	130	105
75°	42	45	48	50	53	46
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°	496.0	496.0	496.0	496.0	496.0
2.5°	497.4	497.6	496.4	493.4	491.5
5°	495.5	495.3	493.4	490.7	489.2
7.5°	489.9	490.3	489.8	485.9	483.9
10°	484.6	484.8	483.3	480.2	477.8
12.5°	477.8	477.6	475.5	473.9	469.9
15°	466.9	468.0	466.9	464.8	461.6
17.5°	456.4	456.4	457.2	453.6	451.1
20°	444.6	445.2	445.2	442.3	439.4
22.5°	430.9	432.6	433.2	430.1	426.7
25°	414.7	417.9	419.8	416.8	413.2
27.5°	395.0	400.0	405.7	403.4	399.4
30°	373.1	380.4	389.9	388.0	385.1
32.5°	352.4	359.6	372.8	372.0	370.5
35°	333.5	338.1	353.5	355.4	354.1
37.5°	315.6	319.8	334.3	338.6	337.5
40°	296.7	301.3	312.7	320.5	320.9
42.5°	278.0	282.4	291.8	303.0	303.0
45°	258.2	262.6	271.2	283.6	285.1
47.5°	238.8	243.4	251.7	264.1	266.6
50°	219.7	223.9	232.3	244.3	248.1
52.5°	199.9	204.5	212.7	223.7	229.3
55°	180.8	183.9	192.9	203.5	209.4
57.5°	161.0	163.9	174.0	183.1	189.2
60°	142.0	145.6	153.4	162.7	169.8
62.5°	123.7	127.5	134.2	142.4	150.4
65°	106.0	108.8	115.3	123.5	130.5
67.5°	88.8	91.3	97.8	103.5	110.9
70°	71.5	74.7	79.5	85.0	89.8
72.5°	57.6	58.9	62.9	66.9	71.8
75°	42.5	44.8	48.0	50.3	53.2
77.5°	30.5	31.8	33.7	35.6	38.3
80°	20.4	21.0	22.7	23.1	25.2
82.5°	12.4	12.8	13.1	13.3	14.1
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.2	2.7	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)