

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: P554247

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-87-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: P554247
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-40-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

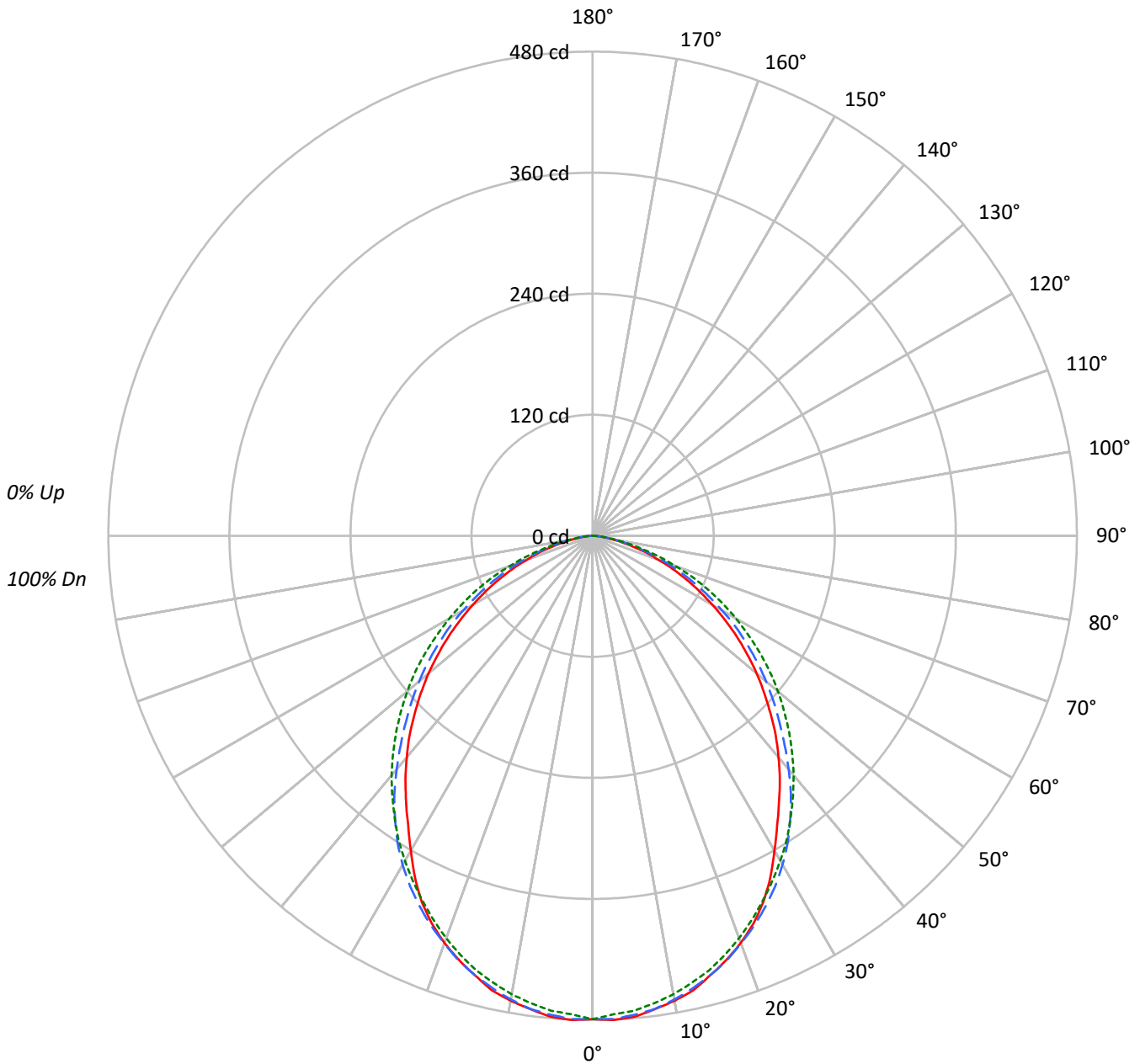
Lumens per Lamp: N/A
Luminaire Lumens: 1108.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2579	2579	2579
5°	2586	2575	2553
10°	2558	2551	2522
15°	2513	2513	2484
20°	2460	2463	2431
25°	2379	2408	2370
30°	2240	2340	2312
35°	2117	2244	2247
40°	2014	2122	2178
45°	1898	1994	2096
50°	1778	1879	2007
55°	1639	1748	1898
60°	1476	1595	1765
65°	1304	1419	1606
70°	1086	1209	1364
75°	855	965	1069
80°	611	679	753
85°	395	395	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	4.1
10°-20°	126.7	11.4
20°-30°	185.2	16.7
30°-40°	210.2	19.0
40°-50°	203.0	18.3
50°-60°	167.4	15.1
60°-70°	111.5	10.1
70°-80°	49.9	4.5
80°-90°	8.9	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°	357.1	32.2
0°-40°	567.3	51.2
0°-60°	937.7	84.6
0°-90°	1108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	479	478	477	474	473	45
15°	451	452	451	449	446	127
25°	401	404	406	403	399	183
35°	322	327	342	343	342	202
45°	249	254	262	274	275	192
55°	175	178	186	197	202	156
65°	102	105	111	119	126	102
75°	41	43	46	49	51	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°	479.2	479.2	479.2	479.2	479.2
2.5°	480.5	480.7	479.5	476.6	474.8
5°	478.6	478.4	476.6	474.0	472.6
7.5°	473.3	473.7	473.1	469.4	467.4
10°	468.1	468.3	466.8	463.9	461.5
12.5°	461.5	461.3	459.3	457.8	454.0
15°	451.0	452.1	451.0	449.0	445.9
17.5°	440.9	440.9	441.6	438.1	435.7
20°	429.5	430.0	430.0	427.3	424.5
22.5°	416.2	417.9	418.4	415.5	412.2
25°	400.6	403.7	405.5	402.6	399.1
27.5°	381.6	386.4	391.9	389.7	385.8
30°	360.4	367.4	376.6	374.8	372.0
32.5°	340.4	347.4	360.1	359.3	357.9
35°	322.2	326.6	341.5	343.3	342.0
37.5°	304.8	308.9	322.9	327.1	326.0
40°	286.6	291.0	302.1	309.6	310.0
42.5°	268.6	272.8	281.8	292.7	292.7
45°	249.4	253.7	262.0	273.9	275.4
47.5°	230.7	235.1	243.2	255.1	257.5
50°	212.3	216.3	224.4	236.0	239.7
52.5°	193.1	197.5	205.4	216.1	221.5
55°	174.7	177.6	186.3	196.6	202.3
57.5°	155.6	158.3	168.1	176.9	182.8
60°	137.1	140.6	148.2	157.2	164.0
62.5°	119.5	123.2	129.6	137.5	145.2
65°	102.4	105.1	111.4	119.3	126.1
67.5°	85.8	88.2	94.4	100.0	107.1
70°	69.0	72.2	76.8	82.1	86.7
72.5°	55.6	56.9	60.7	64.6	69.4
75°	41.1	43.3	46.4	48.6	51.4
77.5°	29.5	30.7	32.6	34.4	37.0
80°	19.7	20.2	21.9	22.3	24.3
82.5°	12.0	12.3	12.7	12.9	13.6
85°	6.4	6.4	6.4	6.1	6.1
87.5°	3.7	3.7	3.1	2.6	1.8
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)