

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: P554566

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-81-87-EDD-90**

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: P554566
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-LD4-1STD-50-UNV-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

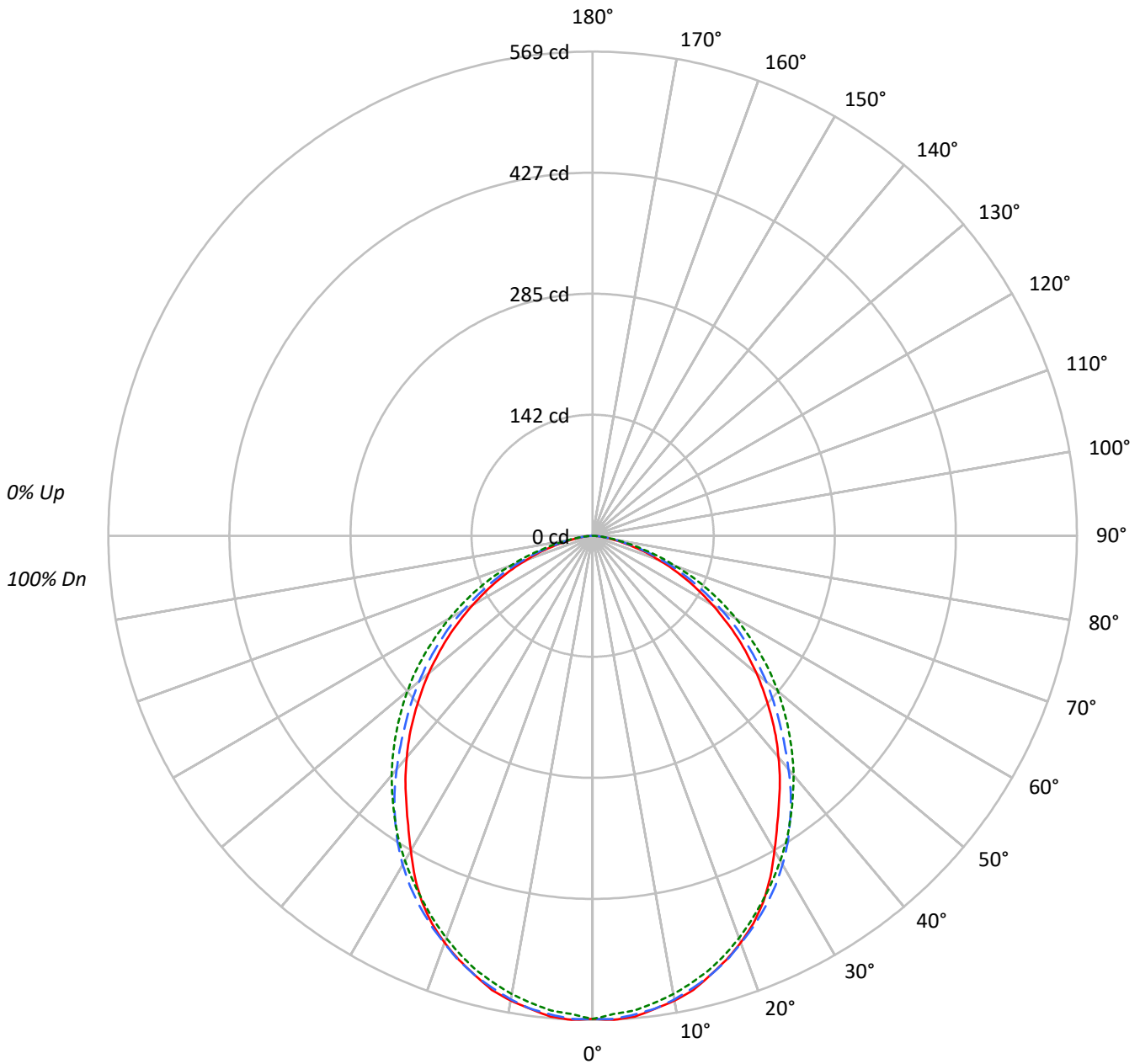
Lumens per Lamp: N/A
Luminaire Lumens: 1313.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3056	3056	3056
5°	3064	3051	3025
10°	3031	3023	2989
15°	2978	2978	2944
20°	2915	2919	2881
25°	2819	2854	2808
30°	2654	2774	2740
35°	2508	2659	2663
40°	2387	2515	2581
45°	2250	2363	2484
50°	2106	2226	2378
55°	1942	2072	2249
60°	1749	1890	2093
65°	1545	1681	1903
70°	1287	1432	1616
75°	1011	1144	1266
80°	722	806	893
85°	469	469	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	4.1
10°-20°	150.2	11.4
20°-30°	219.5	16.7
30°-40°	249.1	19.0
40°-50°	240.5	18.3
50°-60°	198.4	15.1
60°-70°	132.1	10.1
70°-80°	59.1	4.5
80°-90°	10.6	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°	423.1	32.2
0°-40°	672.3	51.2
0°-60°	1111.2	84.6
0°-90°	1313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	567	567	565	562	560	54
15°	534	536	534	532	528	151
25°	475	478	481	477	473	217
35°	382	387	405	407	405	239
45°	296	301	310	325	326	228
55°	207	210	221	233	240	185
65°	121	125	132	141	149	120
75°	49	51	55	58	61	53
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.8	567.8	567.8	567.8	567.8
2.5°	569.4	569.6	568.3	564.8	562.6
5°	567.2	567.0	564.8	561.7	560.0
7.5°	560.9	561.3	560.6	556.3	553.9
10°	554.7	555.0	553.2	549.7	546.9
12.5°	546.9	546.7	544.3	542.5	538.0
15°	534.5	535.8	534.5	532.1	528.4
17.5°	522.5	522.5	523.3	519.2	516.4
20°	508.9	509.6	509.6	506.3	503.0
22.5°	493.2	495.2	495.8	492.4	488.4
25°	474.7	478.4	480.6	477.1	472.9
27.5°	452.2	457.9	464.4	461.8	457.2
30°	427.1	435.4	446.3	444.1	440.9
32.5°	403.4	411.6	426.7	425.8	424.1
35°	381.8	387.0	404.7	406.8	405.3
37.5°	361.3	366.1	382.6	387.6	386.3
40°	339.7	344.9	358.0	366.9	367.4
42.5°	318.3	323.3	334.0	346.9	346.9
45°	295.6	300.6	310.4	324.6	326.3
47.5°	273.3	278.6	288.2	302.4	305.2
50°	251.5	256.3	265.9	279.7	284.0
52.5°	228.8	234.1	243.5	256.1	262.4
55°	207.0	210.5	220.8	233.0	239.7
57.5°	184.3	187.6	199.2	209.6	216.6
60°	162.5	166.7	175.6	186.3	194.4
62.5°	141.6	145.9	153.6	163.0	172.1
65°	121.3	124.6	132.0	141.4	149.4
67.5°	101.7	104.5	111.9	118.5	127.0
70°	81.8	85.5	91.0	97.3	102.7
72.5°	65.9	67.4	72.0	76.6	82.2
75°	48.6	51.3	55.0	57.6	60.9
77.5°	34.9	36.4	38.6	40.8	43.8
80°	23.3	24.0	26.0	26.4	28.8
82.5°	14.2	14.6	15.1	15.3	16.1
85°	7.6	7.6	7.6	7.2	7.2
87.5°	4.4	4.4	3.7	3.1	2.2
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)