

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: P554578

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-85-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: P554578
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

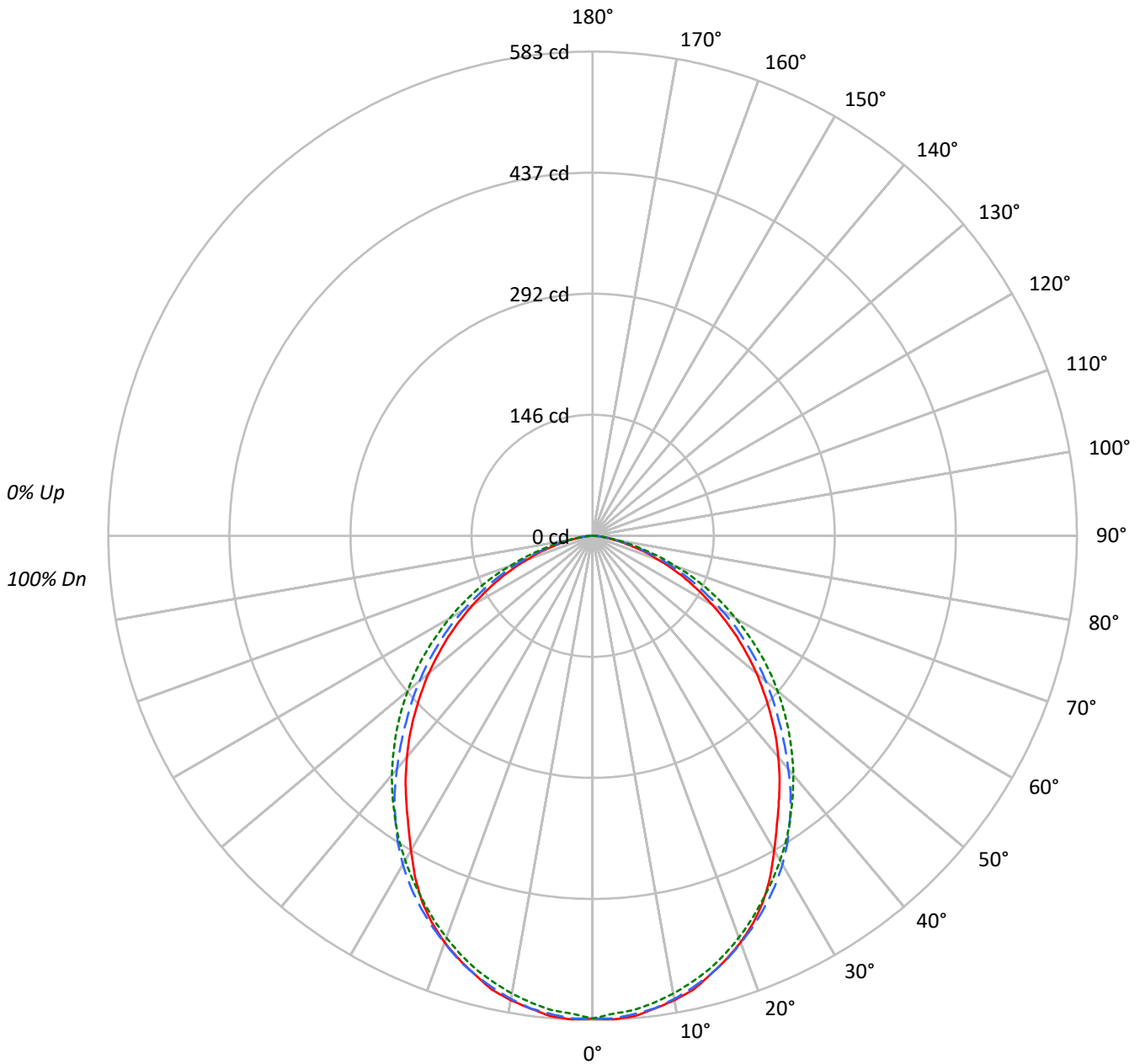
Lumens per Lamp: N/A
Luminaire Lumens: 1344.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3128	3128	3128
5°	3137	3123	3097
10°	3103	3095	3059
15°	3048	3048	3013
20°	2984	2987	2949
25°	2885	2921	2875
30°	2717	2839	2805
35°	2568	2721	2726
40°	2443	2574	2642
45°	2303	2419	2543
50°	2156	2279	2434
55°	1988	2121	2303
60°	1791	1935	2142
65°	1582	1720	1948
70°	1317	1465	1655
75°	1036	1171	1295
80°	741	824	914
85°	482	482	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	4.1
10°-20°	153.7	11.4
20°-30°	224.7	16.7
30°-40°	255.0	19.0
40°-50°	246.2	18.3
50°-60°	203.1	15.1
60°-70°	135.3	10.1
70°-80°	60.5	4.5
80°-90°	10.8	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°	433.1	32.2
0°-40°	688.2	51.2
0°-60°	1137.4	84.6
0°-90°	1344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	581	580	578	575	573	55
15°	547	548	547	545	541	154
25°	486	490	492	488	484	223
35°	391	396	414	416	415	245
45°	303	308	318	332	334	233
55°	212	216	226	238	245	189
65°	124	128	135	145	153	123
75°	50	52	56	59	62	54
85°	8	8	8	7	7	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.2	581.2	581.2	581.2	581.2
2.5°	582.8	583.0	581.7	578.1	575.9
5°	580.6	580.4	578.1	575.0	573.2
7.5°	574.1	574.5	573.9	569.4	567.0
10°	567.8	568.1	566.3	562.7	559.8
12.5°	559.8	559.6	557.1	555.3	550.7
15°	547.1	548.4	547.1	544.6	540.8
17.5°	534.8	534.8	535.7	531.4	528.5
20°	521.0	521.6	521.6	518.3	514.9
22.5°	504.9	506.9	507.6	504.0	500.0
25°	485.9	489.7	491.9	488.4	484.1
27.5°	462.9	468.7	475.4	472.7	468.0
30°	437.2	445.7	456.9	454.6	451.3
32.5°	412.9	421.4	436.8	435.9	434.1
35°	390.8	396.1	414.2	416.5	414.9
37.5°	369.8	374.7	391.7	396.8	395.5
40°	347.7	353.0	366.4	375.6	376.0
42.5°	325.8	330.9	341.9	355.0	355.0
45°	302.6	307.7	317.8	332.3	334.1
47.5°	279.8	285.2	295.0	309.5	312.4
50°	257.5	262.4	272.2	286.3	290.7
52.5°	234.2	239.6	249.2	262.2	268.6
55°	211.9	215.5	226.0	238.5	245.4
57.5°	188.7	192.0	203.9	214.6	221.7
60°	166.4	170.6	179.8	190.7	199.0
62.5°	144.9	149.4	157.2	166.8	176.2
65°	124.2	127.5	135.1	144.7	153.0
67.5°	104.1	107.0	114.6	121.3	130.0
70°	83.7	87.5	93.1	99.6	105.2
72.5°	67.4	69.0	73.7	78.4	84.2
75°	49.8	52.5	56.3	59.0	62.3
77.5°	35.7	37.3	39.5	41.8	44.9
80°	23.9	24.6	26.6	27.0	29.5
82.5°	14.5	15.0	15.4	15.6	16.5
85°	7.8	7.8	7.8	7.4	7.4
87.5°	4.5	4.5	3.8	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)