

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: P554022

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-93-87-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: P554022
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-LD4-1HI-40-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

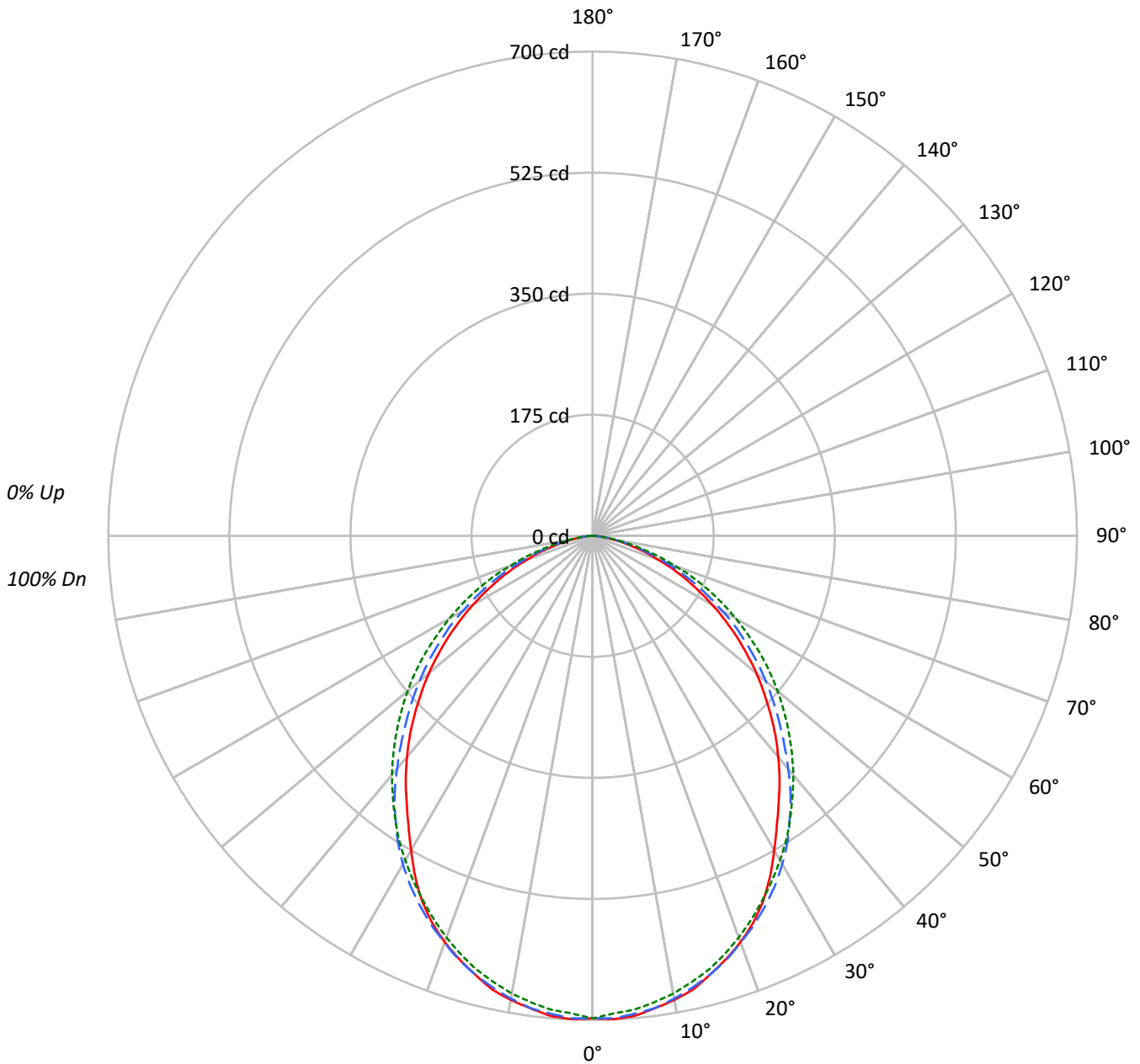
Lumens per Lamp: N/A
Luminaire Lumens: 1613.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3754	3754	3754
5°	3764	3748	3716
10°	3724	3714	3672
15°	3658	3658	3617
20°	3581	3585	3540
25°	3463	3506	3450
30°	3261	3407	3366
35°	3081	3266	3271
40°	2932	3090	3171
45°	2764	2903	3051
50°	2587	2735	2921
55°	2386	2545	2763
60°	2150	2322	2570
65°	1897	2064	2338
70°	1581	1759	1986
75°	1243	1404	1555
80°	890	989	1097
85°	580	580	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	4.1
10°-20°	184.5	11.4
20°-30°	269.6	16.7
30°-40°	306.1	19.0
40°-50°	295.5	18.3
50°-60°	243.7	15.1
60°-70°	162.3	10.1
70°-80°	72.6	4.5
80°-90°	13.0	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°	519.8	32.2
0°-40°	825.9	51.2
0°-60°	1365.1	84.6
0°-90°	1613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	697	696	694	690	688	66
15°	657	658	657	654	649	185
25°	583	588	590	586	581	267
35°	469	475	497	500	498	294
45°	363	369	381	399	401	280
55°	254	259	271	286	294	227
65°	149	153	162	174	184	148
75°	60	63	68	71	75	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.6	697.6	697.6	697.6	697.6
2.5°	699.5	699.7	698.1	693.8	691.1
5°	696.8	696.5	693.8	690.1	687.9
7.5°	689.0	689.5	688.7	683.4	680.4
10°	681.5	681.8	679.6	675.3	671.9
12.5°	671.9	671.6	668.6	666.5	660.9
15°	656.6	658.2	656.6	653.6	649.1
17.5°	641.8	641.8	642.9	637.8	634.3
20°	625.2	626.0	626.0	622.0	618.0
22.5°	605.9	608.3	609.1	604.9	600.0
25°	583.1	587.7	590.4	586.1	581.0
27.5°	555.5	562.5	570.6	567.3	561.7
30°	524.7	534.9	548.3	545.6	541.6
32.5°	495.5	505.7	524.2	523.1	521.0
35°	469.0	475.4	497.1	499.8	497.9
37.5°	443.8	449.7	470.1	476.2	474.6
40°	417.3	423.7	439.8	450.8	451.3
42.5°	391.0	397.2	410.3	426.1	426.1
45°	363.1	369.3	381.4	398.8	400.9
47.5°	335.8	342.2	354.0	371.4	374.9
50°	309.0	314.9	326.7	343.6	348.9
52.5°	281.1	287.6	299.1	314.6	322.4
55°	254.3	258.6	271.2	286.2	294.5
57.5°	226.5	230.5	244.7	257.5	266.1
60°	199.7	204.7	215.7	228.9	238.8
62.5°	173.9	179.3	188.7	200.2	211.4
65°	149.0	153.0	162.1	173.7	183.6
67.5°	124.9	128.4	137.5	145.5	156.0
70°	100.5	105.1	111.8	119.5	126.2
72.5°	80.9	82.8	88.4	94.1	101.0
75°	59.8	63.0	67.5	70.7	74.8
77.5°	42.9	44.8	47.4	50.1	53.9
80°	28.7	29.5	31.9	32.4	35.4
82.5°	17.4	18.0	18.5	18.8	19.8
85°	9.4	9.4	9.4	8.8	8.8
87.5°	5.4	5.4	4.6	3.8	2.7
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)