

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: P554505

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-81-88-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: P554505
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-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

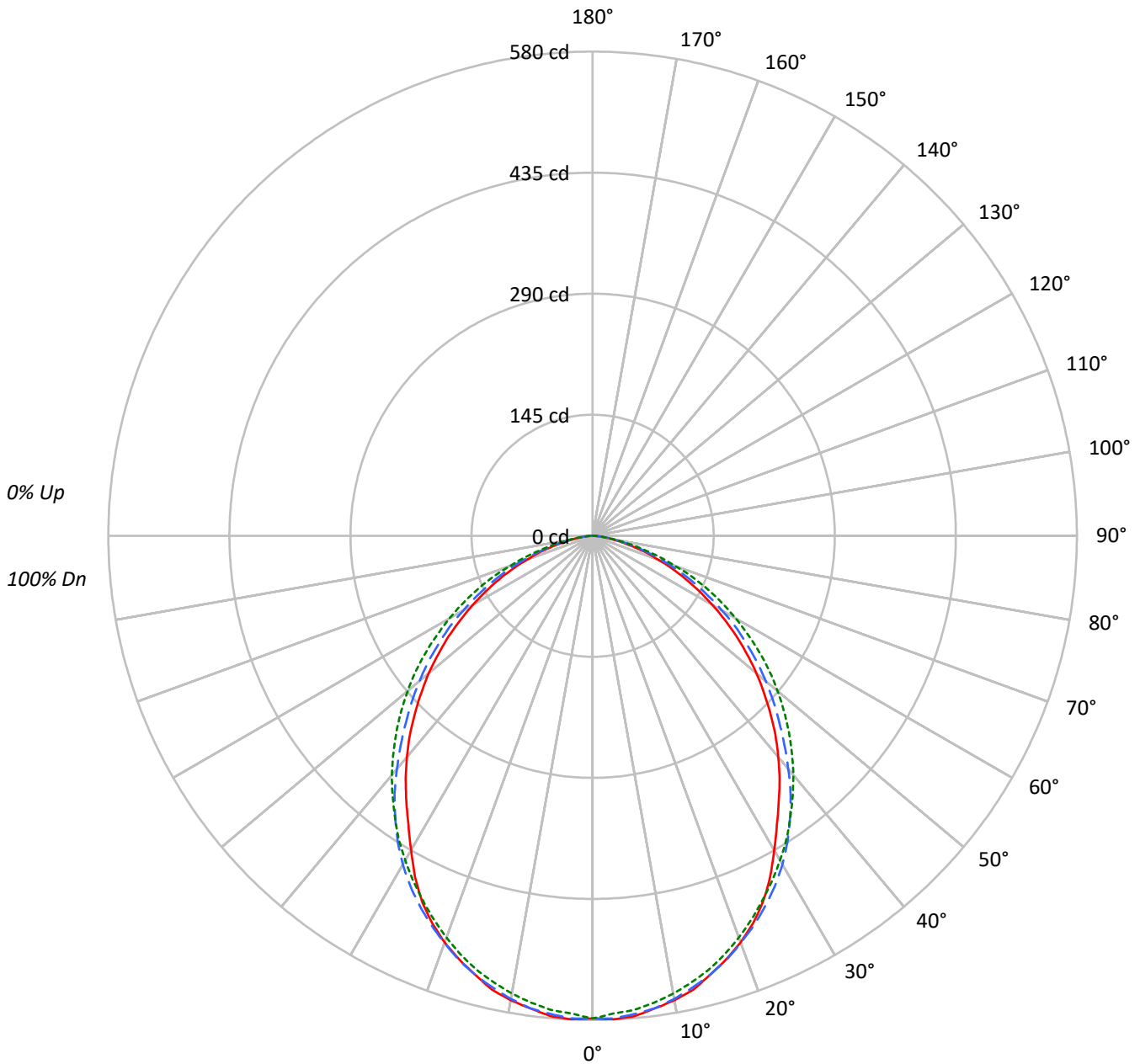
Lumens per Lamp: N/A
Luminaire Lumens: 1337.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3112	3112	3112
5°	3120	3107	3081
10°	3087	3078	3043
15°	3032	3032	2998
20°	2968	2972	2934
25°	2871	2906	2860
30°	2703	2825	2790
35°	2554	2708	2712
40°	2430	2561	2628
45°	2291	2406	2529
50°	2144	2267	2421
55°	1978	2109	2290
60°	1781	1925	2130
65°	1573	1712	1938
70°	1311	1457	1646
75°	1029	1164	1289
80°	738	818	908
85°	482	482	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	4.1
10°-20°	152.9	11.4
20°-30°	223.5	16.7
30°-40°	253.7	19.0
40°-50°	244.9	18.3
50°-60°	202.0	15.1
60°-70°	134.5	10.1
70°-80°	60.2	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°	430.9	32.2
0°-40°	684.6	51.2
0°-60°	1131.5	84.6
0°-90°	1337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	578	577	575	572	570	55
15°	544	546	544	542	538	153
25°	483	487	489	486	482	221
35°	389	394	412	414	413	244
45°	301	306	316	330	332	232
55°	211	214	225	237	244	188
65°	124	127	134	144	152	122
75°	50	52	56	59	62	54
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°	578.2	578.2	578.2	578.2	578.2
2.5°	579.8	580.0	578.7	575.1	572.9
5°	577.6	577.3	575.1	572.0	570.2
7.5°	571.1	571.6	570.9	566.4	564.0
10°	564.9	565.1	563.3	559.8	556.9
12.5°	556.9	556.7	554.2	552.5	547.8
15°	544.2	545.6	544.2	541.8	538.0
17.5°	532.0	532.0	532.9	528.7	525.8
20°	518.2	518.9	518.9	515.6	512.2
22.5°	502.2	504.2	504.9	501.4	497.4
25°	483.4	487.1	489.4	485.8	481.6
27.5°	460.5	466.3	472.9	470.3	465.6
30°	434.9	443.4	454.5	452.3	448.9
32.5°	410.7	419.2	434.5	433.6	431.8
35°	388.7	394.1	412.1	414.3	412.7
37.5°	367.9	372.7	389.6	394.7	393.4
40°	345.9	351.2	364.5	373.6	374.1
42.5°	324.1	329.2	340.1	353.2	353.2
45°	301.0	306.1	316.1	330.5	332.3
47.5°	278.3	283.7	293.4	307.9	310.8
50°	256.1	261.0	270.8	284.8	289.2
52.5°	233.0	238.4	247.9	260.8	267.2
55°	210.8	214.4	224.8	237.2	244.1
57.5°	187.7	191.0	202.8	213.5	220.6
60°	165.5	169.7	178.8	189.7	197.9
62.5°	144.2	148.6	156.4	165.9	175.3
65°	123.5	126.8	134.4	143.9	152.2
67.5°	103.5	106.4	114.0	120.6	129.3
70°	83.3	87.1	92.6	99.1	104.6
72.5°	67.1	68.6	73.3	78.0	83.7
75°	49.5	52.2	56.0	58.6	62.0
77.5°	35.5	37.1	39.3	41.5	44.6
80°	23.8	24.4	26.4	26.9	29.3
82.5°	14.4	14.9	15.3	15.5	16.4
85°	7.8	7.8	7.8	7.3	7.3
87.5°	4.4	4.4	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)