

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: P554317

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-96-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: P554317
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-50-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

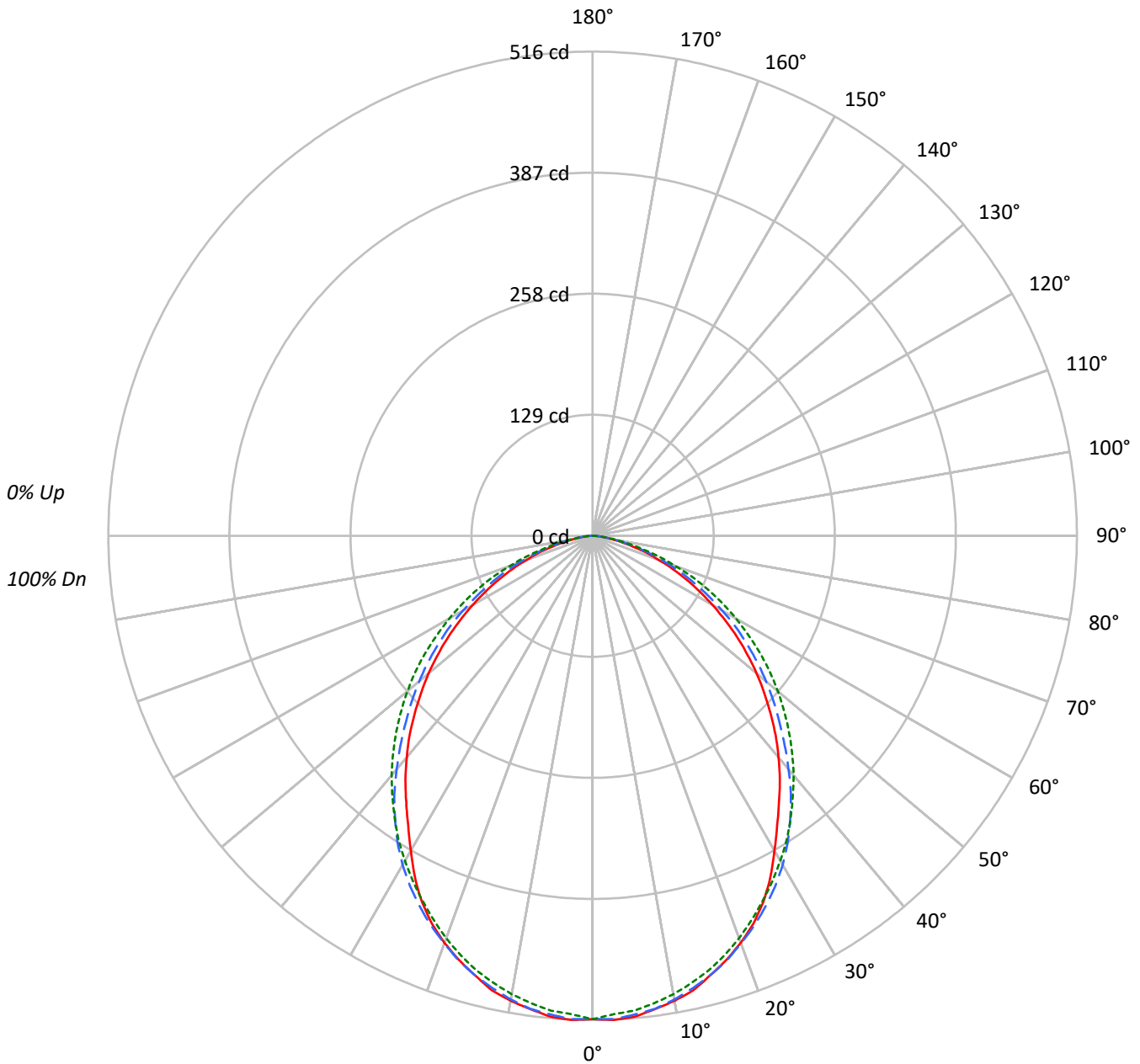
Lumens per Lamp: N/A
Luminaire Lumens: 1191.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2772	2772	2772
5°	2780	2768	2744
10°	2750	2742	2711
15°	2701	2701	2671
20°	2644	2647	2613
25°	2557	2589	2548
30°	2408	2516	2485
35°	2275	2412	2416
40°	2165	2281	2341
45°	2041	2143	2253
50°	1911	2020	2157
55°	1762	1879	2041
60°	1587	1715	1898
65°	1401	1524	1726
70°	1168	1298	1467
75°	917	1038	1148
80°	657	728	809
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.1
10°-20°	136.2	11.4
20°-30°	199.1	16.7
30°-40°	226.0	19.0
40°-50°	218.2	18.3
50°-60°	180.0	15.1
60°-70°	119.8	10.1
70°-80°	53.6	4.5
80°-90°	9.6	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°	383.8	32.2
0°-40°	609.8	51.2
0°-60°	1007.9	84.6
0°-90°	1191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	514	514	512	510	508	49
15°	485	486	485	483	479	137
25°	431	434	436	433	429	197
35°	346	351	367	369	368	217
45°	268	273	282	294	296	207
55°	188	191	200	211	218	168
65°	110	113	120	128	136	109
75°	44	46	50	52	55	48
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.1	515.1	515.1	515.1	515.1
2.5°	516.5	516.7	515.5	512.3	510.3
5°	514.5	514.3	512.3	509.5	508.0
7.5°	508.7	509.1	508.5	504.6	502.4
10°	503.2	503.4	501.8	498.7	496.1
12.5°	496.1	495.9	493.7	492.1	488.0
15°	484.8	486.0	484.8	482.6	479.3
17.5°	473.9	473.9	474.7	470.9	468.4
20°	461.6	462.2	462.2	459.3	456.3
22.5°	447.4	449.2	449.8	446.6	443.0
25°	430.6	433.9	435.9	432.8	429.0
27.5°	410.2	415.3	421.3	418.9	414.8
30°	387.4	395.0	404.9	402.9	399.9
32.5°	365.9	373.4	387.0	386.3	384.7
35°	346.3	351.0	367.1	369.0	367.7
37.5°	327.7	332.0	347.1	351.6	350.4
40°	308.1	312.8	324.7	332.8	333.2
42.5°	288.7	293.3	303.0	314.6	314.6
45°	268.1	272.7	281.6	294.4	296.0
47.5°	247.9	252.7	261.4	274.3	276.8
50°	228.2	232.5	241.2	253.7	257.6
52.5°	207.6	212.3	220.8	232.3	238.0
55°	187.8	191.0	200.3	211.3	217.5
57.5°	167.2	170.2	180.7	190.2	196.5
60°	147.4	151.2	159.3	169.0	176.3
62.5°	128.4	132.4	139.3	147.8	156.1
65°	110.0	113.0	119.7	128.2	135.5
67.5°	92.2	94.8	101.5	107.4	115.2
70°	74.2	77.6	82.5	88.3	93.2
72.5°	59.8	61.1	65.3	69.5	74.6
75°	44.1	46.5	49.9	52.2	55.2
77.5°	31.7	33.0	35.0	37.0	39.8
80°	21.2	21.8	23.5	23.9	26.1
82.5°	12.9	13.3	13.7	13.9	14.6
85°	6.9	6.9	6.9	6.5	6.5
87.5°	4.0	4.0	3.4	2.8	2.0
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)