

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: P554305

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-84-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: P554305
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

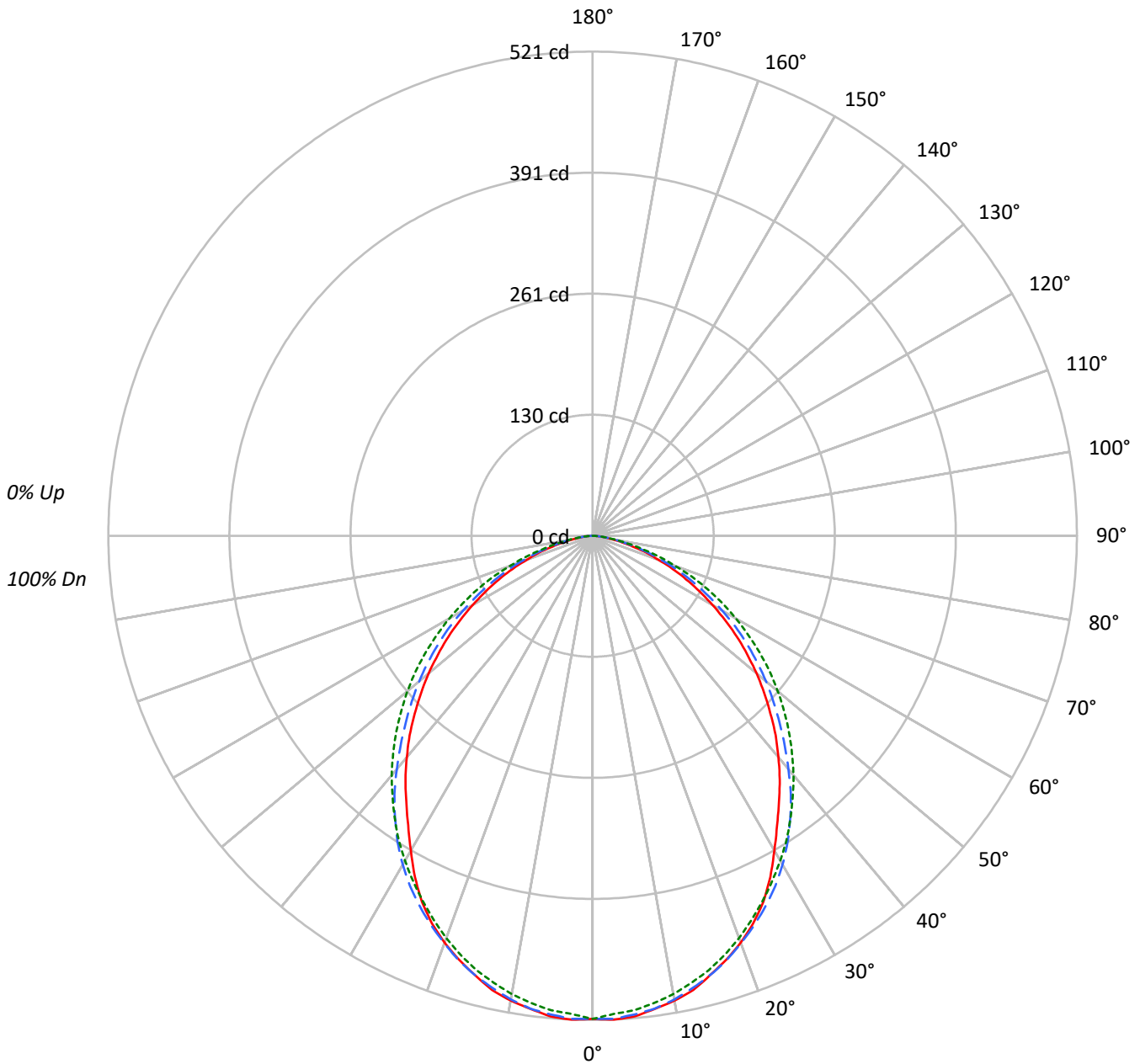
Lumens per Lamp: N/A
Luminaire Lumens: 1202.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2798	2798	2798
5°	2805	2793	2769
10°	2776	2768	2736
15°	2726	2726	2695
20°	2668	2672	2637
25°	2581	2613	2571
30°	2430	2539	2508
35°	2296	2434	2438
40°	2184	2302	2363
45°	2060	2163	2274
50°	1928	2038	2177
55°	1778	1896	2060
60°	1602	1731	1915
65°	1414	1538	1742
70°	1179	1311	1481
75°	925	1046	1158
80°	663	738	818
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	4.1
10°-20°	137.5	11.4
20°-30°	200.9	16.7
30°-40°	228.1	19.0
40°-50°	220.2	18.3
50°-60°	181.6	15.1
60°-70°	120.9	10.1
70°-80°	54.1	4.5
80°-90°	9.7	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°	387.4	32.2
0°-40°	615.5	51.2
0°-60°	1017.3	84.6
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	519	517	514	513	49
15°	489	490	489	487	484	138
25°	435	438	440	437	433	199
35°	350	354	370	372	371	219
45°	271	275	284	297	299	209
55°	190	193	202	213	220	169
65°	111	114	121	129	137	110
75°	44	47	50	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.8	519.8	519.8	519.8	519.8
2.5°	521.2	521.4	520.2	517.0	515.0
5°	519.2	519.0	517.0	514.2	512.6
7.5°	513.4	513.8	513.2	509.2	507.1
10°	507.9	508.1	506.5	503.3	500.7
12.5°	500.7	500.5	498.3	496.7	492.5
15°	489.3	490.5	489.3	487.1	483.7
17.5°	478.3	478.3	479.1	475.3	472.7
20°	465.9	466.5	466.5	463.5	460.5
22.5°	451.5	453.3	453.9	450.7	447.1
25°	434.6	438.0	440.0	436.8	433.0
27.5°	414.0	419.2	425.2	422.8	418.6
30°	391.0	398.6	408.6	406.6	403.6
32.5°	369.3	376.8	390.6	389.8	388.2
35°	349.5	354.3	370.5	372.5	371.1
37.5°	330.7	335.1	350.3	354.9	353.7
40°	310.9	315.7	327.7	335.9	336.3
42.5°	291.4	296.0	305.7	317.5	317.5
45°	270.6	275.2	284.2	297.2	298.8
47.5°	250.2	255.0	263.8	276.8	279.4
50°	230.3	234.7	243.4	256.0	260.0
52.5°	209.5	214.3	222.9	234.5	240.2
55°	189.5	192.7	202.1	213.3	219.5
57.5°	168.8	171.7	182.3	191.9	198.3
60°	148.8	152.6	160.8	170.5	177.9
62.5°	129.6	133.6	140.6	149.2	157.6
65°	111.0	114.0	120.8	129.4	136.8
67.5°	93.1	95.7	102.4	108.4	116.2
70°	74.9	78.3	83.3	89.1	94.1
72.5°	60.3	61.7	65.9	70.1	75.3
75°	44.5	46.9	50.3	52.7	55.7
77.5°	32.0	33.4	35.3	37.3	40.1
80°	21.4	22.0	23.8	24.2	26.4
82.5°	13.0	13.4	13.8	14.0	14.8
85°	7.0	7.0	7.0	6.6	6.6
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)