

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: P554187

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-94-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: P554187
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-35-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

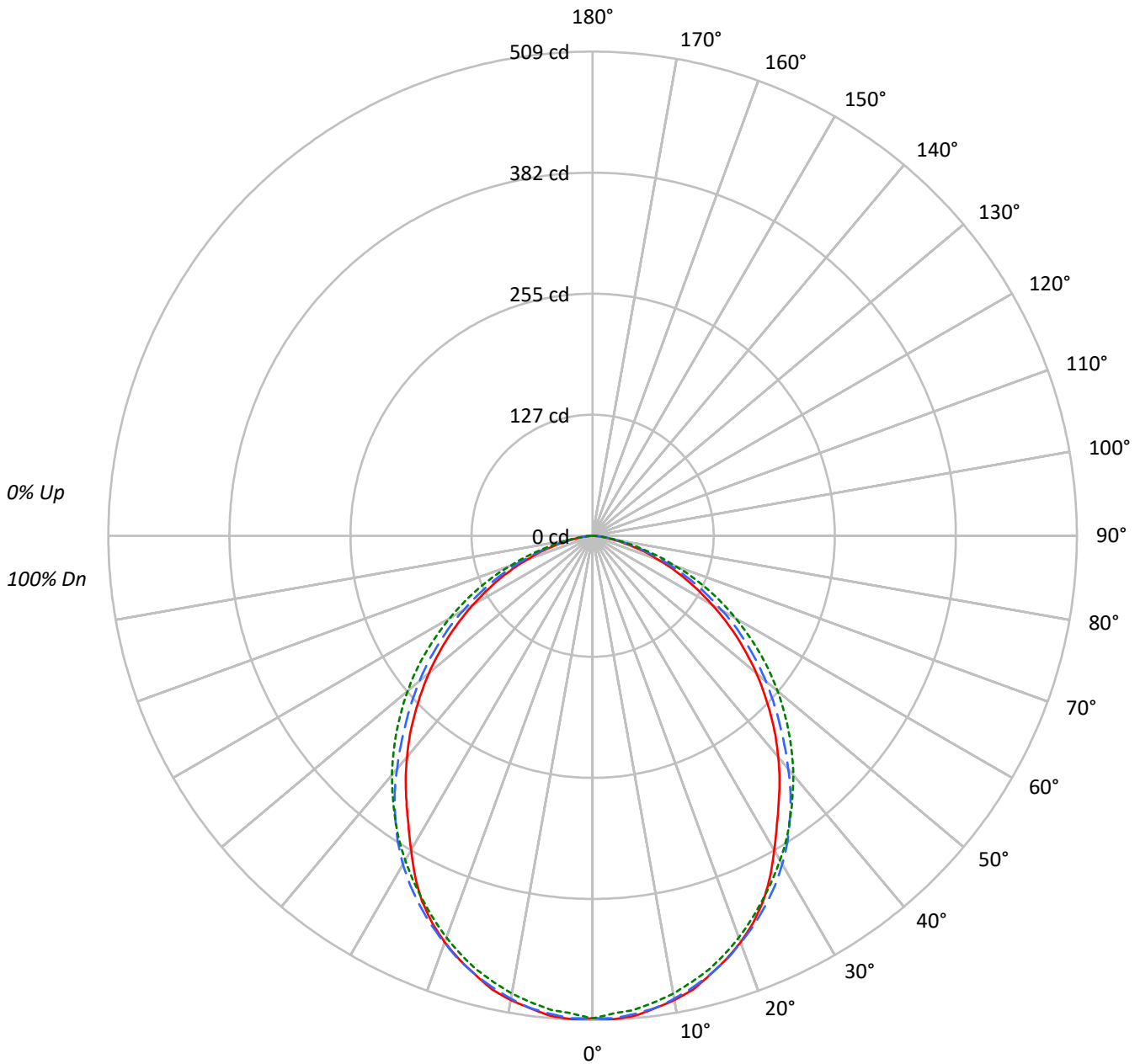
Lumens per Lamp: N/A
Luminaire Lumens: 1173.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2730	2730	2730
5°	2737	2726	2703
10°	2708	2701	2670
15°	2661	2661	2630
20°	2604	2608	2574
25°	2518	2549	2509
30°	2371	2478	2448
35°	2241	2375	2379
40°	2132	2247	2306
45°	2010	2111	2219
50°	1881	1989	2124
55°	1735	1850	2010
60°	1563	1689	1869
65°	1380	1501	1700
70°	1150	1279	1445
75°	905	1021	1131
80°	648	719	797
85°	420	420	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	4.1
10°-20°	134.2	11.4
20°-30°	196.1	16.7
30°-40°	222.6	19.0
40°-50°	214.9	18.3
50°-60°	177.2	15.1
60°-70°	118.0	10.1
70°-80°	52.8	4.5
80°-90°	9.4	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°	378.0	32.2
0°-40°	600.6	51.2
0°-60°	992.7	84.6
0°-90°	1173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	507	506	505	502	500	48
15°	478	479	478	475	472	135
25°	424	427	429	426	422	194
35°	341	346	362	364	362	214
45°	264	269	277	290	292	204
55°	185	188	197	208	214	165
65°	108	111	118	126	134	107
75°	44	46	49	52	54	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°	507.3	507.3	507.3	507.3	507.3
2.5°	508.7	508.9	507.7	504.6	502.6
5°	506.7	506.5	504.6	501.8	500.3
7.5°	501.1	501.4	500.9	497.0	494.8
10°	495.6	495.8	494.2	491.1	488.6
12.5°	488.6	488.4	486.2	484.7	480.6
15°	477.5	478.6	477.5	475.3	472.0
17.5°	466.8	466.8	467.5	463.8	461.3
20°	454.7	455.3	455.3	452.3	449.4
22.5°	440.6	442.4	443.0	439.9	436.4
25°	424.1	427.4	429.3	426.2	422.5
27.5°	404.0	409.1	414.9	412.6	408.5
30°	381.6	389.0	398.7	396.8	393.9
32.5°	360.3	367.8	381.2	380.4	378.9
35°	341.1	345.7	361.5	363.5	362.1
37.5°	322.7	327.0	341.8	346.3	345.1
40°	303.4	308.1	319.8	327.8	328.2
42.5°	284.3	288.8	298.4	309.9	309.9
45°	264.1	268.6	277.3	290.0	291.6
47.5°	244.2	248.9	257.4	270.1	272.6
50°	224.7	229.0	237.6	249.8	253.7
52.5°	204.4	209.1	217.5	228.8	234.4
55°	184.9	188.1	197.2	208.1	214.2
57.5°	164.7	167.6	177.9	187.3	193.5
60°	145.2	148.9	156.9	166.4	173.6
62.5°	126.5	130.4	137.2	145.6	153.8
65°	108.4	111.3	117.9	126.3	133.5
67.5°	90.8	93.4	100.0	105.8	113.4
70°	73.1	76.4	81.3	86.9	91.8
72.5°	58.9	60.2	64.3	68.4	73.5
75°	43.5	45.8	49.1	51.5	54.4
77.5°	31.2	32.5	34.5	36.4	39.2
80°	20.9	21.4	23.2	23.6	25.7
82.5°	12.7	13.1	13.4	13.6	14.4
85°	6.8	6.8	6.8	6.4	6.4
87.5°	3.9	3.9	3.3	2.7	1.9
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)