

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: P554340

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-86-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: P554340
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

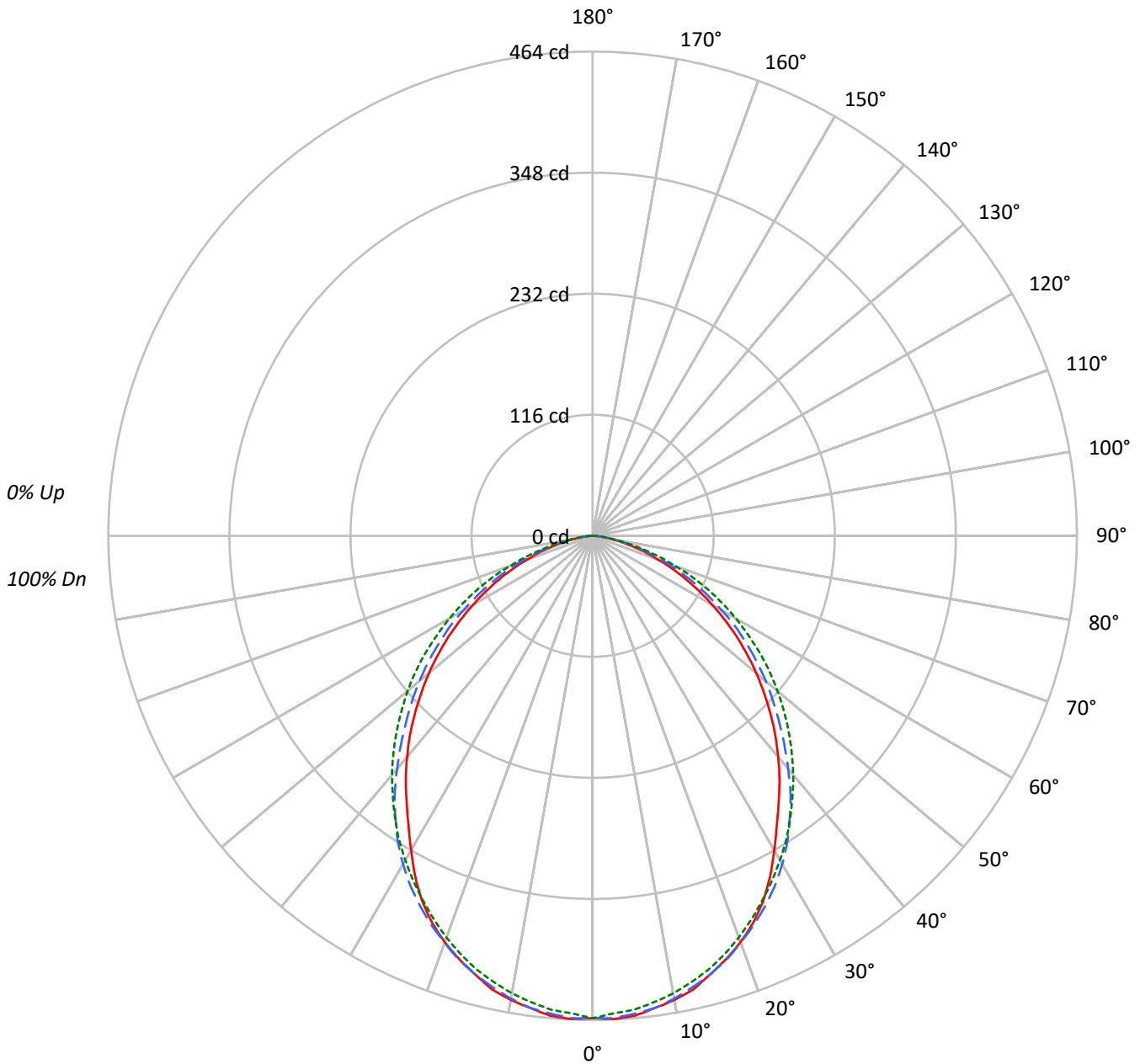
Lumens per Lamp: N/A
Luminaire Lumens: 1069.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554340

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-86-EDD-90

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°	2488	2488	2488
5°	2495	2484	2463
10°	2469	2461	2434
15°	2424	2424	2397
20°	2373	2376	2346
25°	2295	2324	2287
30°	2161	2258	2230
35°	2042	2165	2168
40°	1943	2048	2101
45°	1832	1923	2022
50°	1715	1813	1936
55°	1582	1686	1832
60°	1424	1539	1703
65°	1258	1369	1550
70°	1048	1166	1317
75°	823	932	1031
80°	589	654	725
85°	383	383	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.1
10°-20°	122.3	11.4
20°-30°	178.7	16.7
30°-40°	202.8	19.0
40°-50°	195.8	18.3
50°-60°	161.5	15.1
60°-70°	107.6	10.1
70°-80°	48.1	4.5
80°-90°	8.6	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°	344.5	32.2
0°-40°	547.3	51.2
0°-60°	904.7	84.6
0°-90°	1069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	462	460	457	456	44
15°	435	436	435	433	430	123
25°	386	390	391	388	385	177
35°	311	315	330	331	330	195
45°	241	245	253	264	266	186
55°	169	171	180	190	195	150
65°	99	101	108	115	122	98
75°	40	42	45	47	50	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.3	462.3	462.3	462.3	462.3
2.5°	463.6	463.7	462.7	459.8	458.1
5°	461.8	461.6	459.8	457.3	455.9
7.5°	456.6	457.0	456.5	452.9	450.9
10°	451.7	451.8	450.4	447.6	445.3
12.5°	445.3	445.1	443.1	441.7	438.0
15°	435.1	436.2	435.1	433.2	430.2
17.5°	425.4	425.4	426.1	422.7	420.4
20°	414.4	414.9	414.9	412.2	409.6
22.5°	401.6	403.2	403.7	400.9	397.7
25°	386.5	389.5	391.3	388.4	385.1
27.5°	368.2	372.8	378.1	376.0	372.3
30°	347.8	354.5	363.4	361.6	358.9
32.5°	328.4	335.1	347.4	346.7	345.3
35°	310.8	315.1	329.5	331.2	330.0
37.5°	294.1	298.0	311.5	315.6	314.5
40°	276.5	280.8	291.5	298.7	299.1
42.5°	259.1	263.2	271.9	282.4	282.4
45°	240.7	244.7	252.7	264.3	265.7
47.5°	222.5	226.8	234.6	246.2	248.5
50°	204.8	208.7	216.5	227.7	231.2
52.5°	186.3	190.6	198.2	208.5	213.7
55°	168.6	171.4	179.7	189.7	195.2
57.5°	150.1	152.7	162.2	170.7	176.4
60°	132.3	135.7	143.0	151.7	158.2
62.5°	115.3	118.8	125.0	132.7	140.1
65°	98.8	101.4	107.5	115.1	121.7
67.5°	82.8	85.1	91.1	96.4	103.4
70°	66.6	69.6	74.1	79.2	83.7
72.5°	53.6	54.9	58.6	62.3	67.0
75°	39.6	41.7	44.8	46.9	49.6
77.5°	28.4	29.7	31.4	33.2	35.7
80°	19.0	19.5	21.1	21.5	23.4
82.5°	11.5	11.9	12.3	12.4	13.1
85°	6.2	6.2	6.2	5.9	5.9
87.5°	3.6	3.6	3.0	2.5	1.8
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)