

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: P554282

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-94-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: P554282
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-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

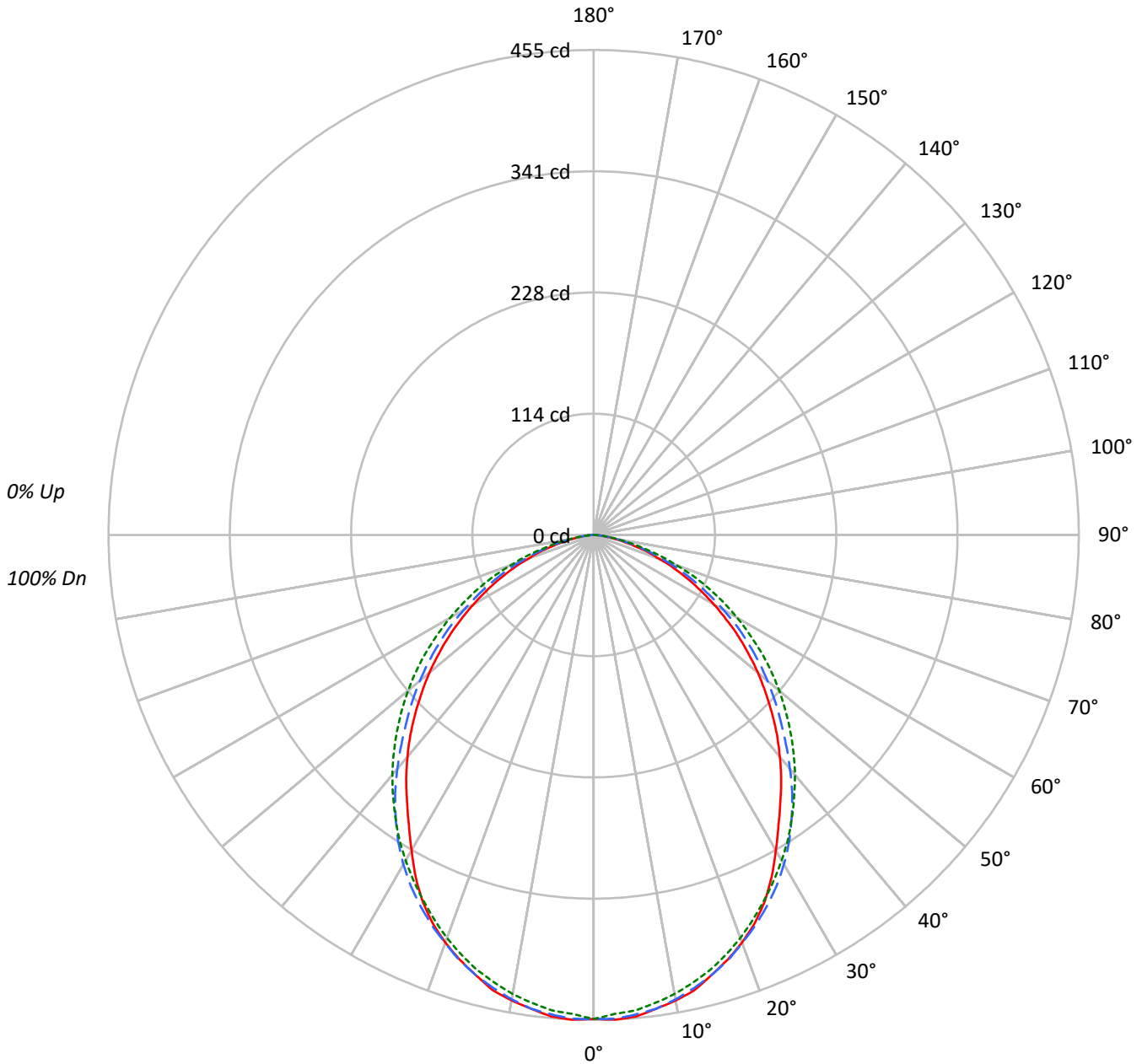
Lumens per Lamp: N/A
Luminaire Lumens: 1050.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2444	2444	2444
5°	2451	2440	2419
10°	2424	2418	2390
15°	2381	2381	2354
20°	2331	2334	2304
25°	2254	2282	2246
30°	2123	2218	2191
35°	2006	2126	2129
40°	1908	2011	2064
45°	1799	1889	1987
50°	1684	1781	1901
55°	1554	1656	1799
60°	1399	1511	1673
65°	1235	1344	1522
70°	1029	1144	1293
75°	809	915	1013
80°	580	645	713
85°	377	377	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	4.1
10°-20°	120.1	11.4
20°-30°	175.5	16.7
30°-40°	199.2	19.0
40°-50°	192.3	18.3
50°-60°	158.7	15.1
60°-70°	105.6	10.1
70°-80°	47.3	4.5
80°-90°	8.5	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°	338.4	32.2
0°-40°	537.6	51.2
0°-60°	888.6	84.6
0°-90°	1050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	453	452	449	448	43
15°	427	428	427	426	422	120
25°	380	383	384	382	378	174
35°	305	310	324	325	324	191
45°	236	240	248	260	261	182
55°	166	168	176	186	192	148
65°	97	100	106	113	120	96
75°	39	41	44	46	49	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°	454.1	454.1	454.1	454.1	454.1
2.5°	455.3	455.5	454.4	451.7	449.9
5°	453.6	453.4	451.7	449.2	447.8
7.5°	448.5	448.9	448.3	444.9	442.9
10°	443.6	443.8	442.4	439.6	437.4
12.5°	437.4	437.2	435.3	433.9	430.2
15°	427.4	428.5	427.4	425.5	422.5
17.5°	417.8	417.8	418.5	415.2	412.9
20°	407.0	407.5	407.5	404.9	402.3
22.5°	394.4	396.0	396.5	393.7	390.6
25°	379.6	382.6	384.3	381.5	378.2
27.5°	361.6	366.2	371.4	369.3	365.7
30°	341.6	348.2	356.9	355.2	352.6
32.5°	322.6	329.2	341.2	340.5	339.1
35°	305.3	309.5	323.6	325.4	324.1
37.5°	288.9	292.7	306.0	310.0	309.0
40°	271.6	275.8	286.3	293.4	293.8
42.5°	254.5	258.5	267.1	277.4	277.4
45°	236.4	240.4	248.2	259.6	261.0
47.5°	218.6	222.8	230.5	241.8	244.1
50°	201.1	205.0	212.7	223.6	227.1
52.5°	183.0	187.2	194.7	204.8	209.9
55°	165.6	168.3	176.5	186.3	191.7
57.5°	147.4	150.0	159.3	167.6	173.2
60°	130.0	133.3	140.4	149.0	155.4
62.5°	113.2	116.7	122.8	130.3	137.6
65°	97.0	99.6	105.5	113.0	119.5
67.5°	81.3	83.6	89.5	94.7	101.5
70°	65.4	68.4	72.7	77.8	82.2
72.5°	52.7	53.9	57.6	61.2	65.8
75°	38.9	41.0	44.0	46.1	48.7
77.5°	27.9	29.1	30.9	32.6	35.1
80°	18.7	19.2	20.8	21.1	23.0
82.5°	11.3	11.7	12.0	12.2	12.9
85°	6.1	6.1	6.1	5.8	5.8
87.5°	3.5	3.5	3.0	2.4	1.7
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)