

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: P555861

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-86-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: P555861
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-LD4-3LO-50-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

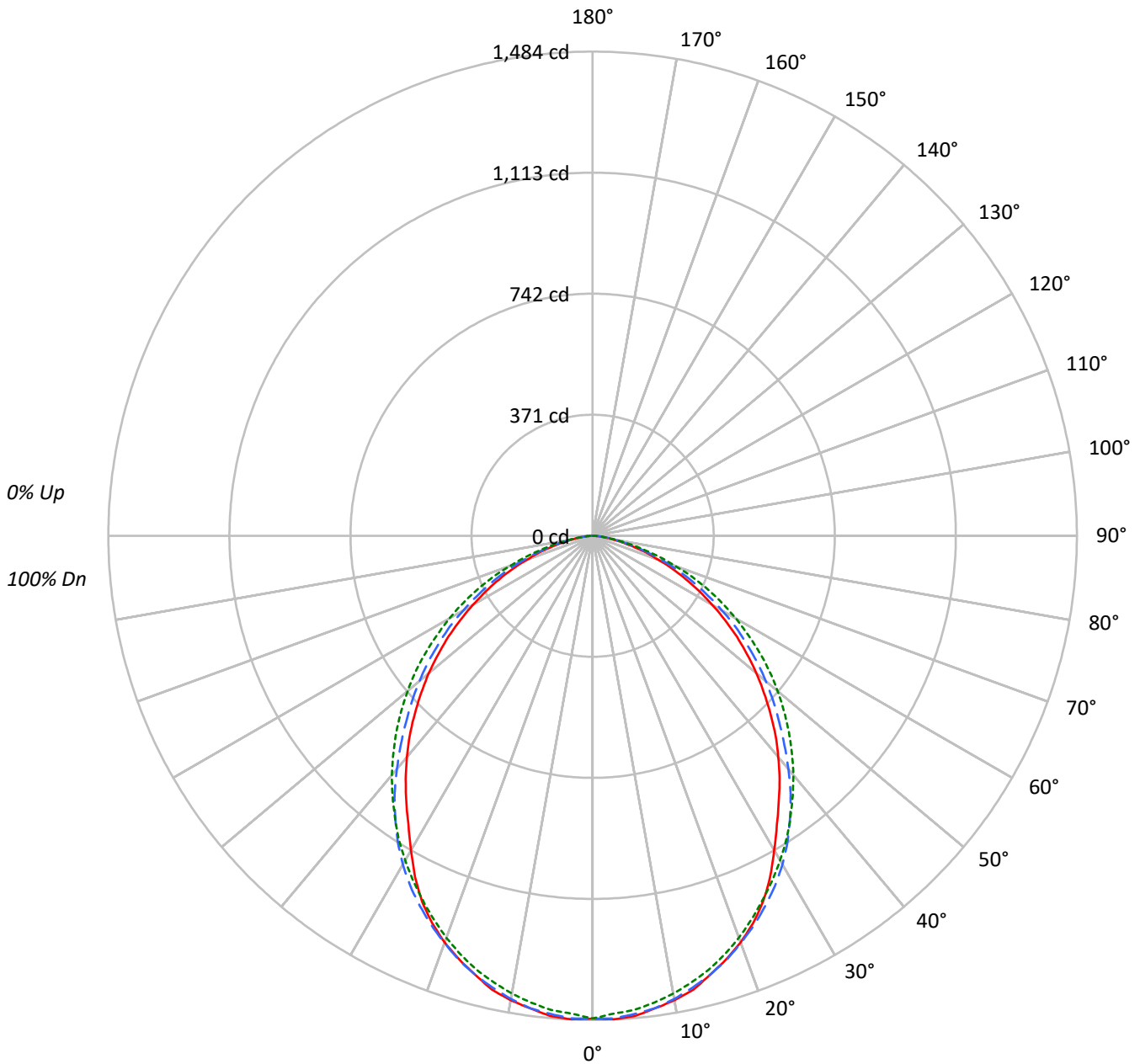
Lumens per Lamp: N/A
Luminaire Lumens: 3421.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7963	7963	7963
5°	7984	7950	7882
10°	7899	7877	7787
15°	7759	7759	7670
20°	7594	7604	7507
25°	7345	7435	7317
30°	6916	7227	7139
35°	6535	6927	6939
40°	6218	6553	6725
45°	5862	6156	6472
50°	5487	5802	6196
55°	5061	5397	5862
60°	4557	4924	5451
65°	4024	4379	4958
70°	3353	3729	4212
75°	2635	2978	3298
80°	1884	2095	2325
85°	1229	1229	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	4.1
10°-20°	391.3	11.4
20°-30°	571.9	16.7
30°-40°	649.1	19.0
40°-50°	626.6	18.3
50°-60°	516.9	15.1
60°-70°	344.2	10.1
70°-80°	154.0	4.5
80°-90°	27.6	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°	1102.5	32.2
0°-40°	1751.6	51.2
0°-60°	2895.2	84.6
0°-90°	3421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1478	1477	1472	1464	1459	140
15°	1392	1396	1392	1386	1377	393
25°	1237	1246	1252	1243	1232	566
35°	995	1008	1054	1060	1056	623
45°	770	783	809	846	850	594
55°	539	548	575	607	625	481
65°	316	324	344	368	389	313
75°	127	134	143	150	159	139
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.5	1479.5	1479.5	1479.5	1479.5
2.5°	1483.5	1484.0	1480.6	1471.5	1465.9
5°	1477.8	1477.2	1471.5	1463.6	1459.0
7.5°	1461.3	1462.4	1460.7	1449.4	1443.1
10°	1445.4	1446.0	1441.4	1432.3	1424.9
12.5°	1424.9	1424.4	1418.1	1413.6	1401.6
15°	1392.5	1395.9	1392.5	1386.3	1376.6
17.5°	1361.3	1361.3	1363.5	1352.7	1345.4
20°	1326.0	1327.7	1327.7	1319.2	1310.7
22.5°	1285.1	1290.2	1291.9	1282.8	1272.6
25°	1236.8	1246.5	1252.1	1243.0	1232.2
27.5°	1178.3	1193.0	1210.1	1203.3	1191.3
30°	1112.9	1134.5	1162.9	1157.2	1148.7
32.5°	1050.9	1072.5	1111.8	1109.5	1104.9
35°	994.7	1008.3	1054.3	1060.0	1056.1
37.5°	941.2	953.7	996.9	1010.0	1006.6
40°	885.0	898.6	932.7	956.0	957.2
42.5°	829.3	842.3	870.2	903.7	903.7
45°	770.2	783.2	808.8	845.8	850.3
47.5°	712.2	725.8	750.8	787.8	795.2
50°	655.3	667.8	692.9	728.7	740.0
52.5°	596.2	609.9	634.3	667.3	683.8
55°	539.4	548.5	575.2	607.0	624.7
57.5°	480.3	488.8	518.9	546.2	564.4
60°	423.4	434.2	457.5	485.4	506.4
62.5°	368.9	380.2	400.1	424.6	448.5
65°	316.0	324.5	343.9	368.3	389.3
67.5°	264.9	272.3	291.6	308.6	330.8
70°	213.1	222.8	237.0	253.5	267.7
72.5°	171.7	175.6	187.6	199.5	214.3
75°	126.7	133.6	143.2	150.1	158.6
77.5°	90.9	94.9	100.6	106.3	114.2
80°	60.8	62.5	67.6	68.8	75.0
82.5°	36.9	38.1	39.2	39.8	42.1
85°	19.9	19.9	19.9	18.8	18.8
87.5°	11.4	11.4	9.7	8.0	5.7
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)