

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: P555853

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-96-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: P555853
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

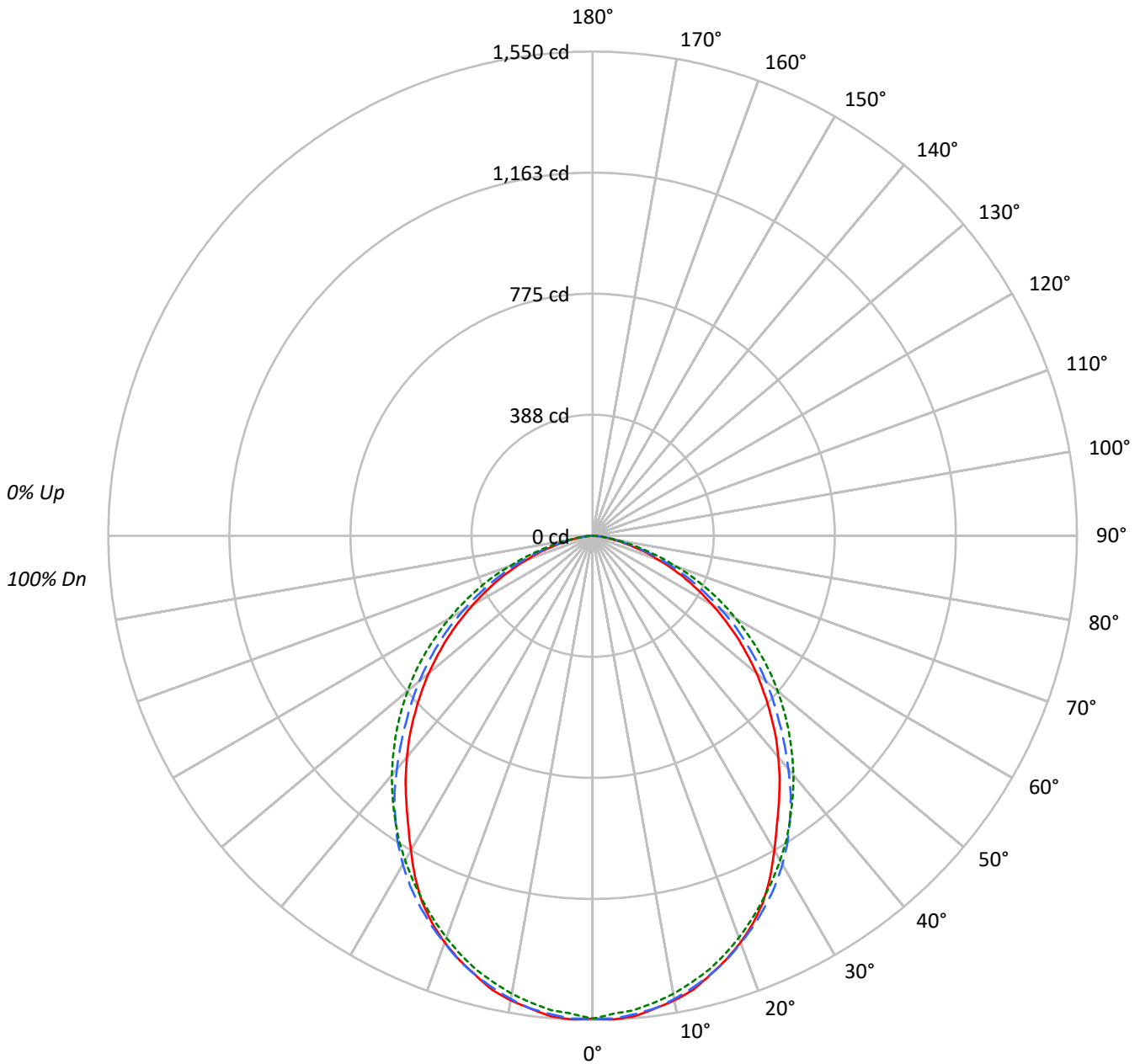
Lumens per Lamp: N/A
Luminaire Lumens: 3574.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8319	8319	8319
5°	8341	8305	8235
10°	8252	8230	8136
15°	8106	8106	8013
20°	7934	7944	7842
25°	7673	7768	7645
30°	7226	7550	7458
35°	6828	7237	7249
40°	6495	6846	7026
45°	6124	6431	6761
50°	5733	6060	6473
55°	5287	5638	6123
60°	4762	5145	5695
65°	4205	4574	5181
70°	3504	3896	4401
75°	2753	3111	3446
80°	1968	2191	2430
85°	1284	1284	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	4.1
10°-20°	408.8	11.4
20°-30°	597.4	16.7
30°-40°	678.2	19.0
40°-50°	654.7	18.3
50°-60°	540.0	15.1
60°-70°	359.6	10.1
70°-80°	160.9	4.5
80°-90°	28.8	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°	1151.8	32.2
0°-40°	1829.9	51.2
0°-60°	3024.6	84.6
0°-90°	3574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1544	1543	1537	1529	1524	146
15°	1455	1458	1455	1448	1438	410
25°	1292	1302	1308	1299	1287	592
35°	1039	1053	1102	1107	1103	651
45°	805	818	845	884	888	621
55°	564	573	601	634	653	503
65°	330	339	359	385	407	327
75°	132	140	150	157	166	145
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.7	1545.7	1545.7	1545.7	1545.7
2.5°	1549.8	1550.4	1546.9	1537.3	1531.4
5°	1543.9	1543.3	1537.3	1529.0	1524.3
7.5°	1526.7	1527.8	1526.1	1514.2	1507.7
10°	1510.0	1510.6	1505.9	1496.4	1488.7
12.5°	1488.7	1488.1	1481.5	1476.8	1464.3
15°	1454.8	1458.4	1454.8	1448.3	1438.2
17.5°	1422.2	1422.2	1424.5	1413.2	1405.5
20°	1385.3	1387.1	1387.1	1378.2	1369.3
22.5°	1342.6	1347.9	1349.7	1340.2	1329.5
25°	1292.1	1302.2	1308.1	1298.6	1287.4
27.5°	1230.9	1246.4	1264.2	1257.1	1244.6
30°	1162.7	1185.2	1214.9	1209.0	1200.1
32.5°	1097.9	1120.5	1161.5	1159.1	1154.3
35°	1039.2	1053.4	1101.5	1107.4	1103.3
37.5°	983.3	996.4	1041.5	1055.2	1051.6
40°	924.5	938.8	974.4	998.8	1000.0
42.5°	866.4	880.0	909.1	944.1	944.1
45°	804.6	818.3	845.0	883.6	888.3
47.5°	744.0	758.3	784.4	823.0	830.7
50°	684.7	697.7	723.8	761.3	773.1
52.5°	622.9	637.1	662.7	697.1	714.3
55°	563.5	573.0	600.9	634.2	652.6
57.5°	501.8	510.7	542.1	570.6	589.6
60°	442.4	453.7	478.0	507.1	529.1
62.5°	385.4	397.3	418.0	443.6	468.5
65°	330.2	339.1	359.2	384.8	406.8
67.5°	276.7	284.4	304.6	322.4	345.6
70°	222.7	232.8	247.6	264.8	279.7
72.5°	179.3	183.5	196.0	208.4	223.9
75°	132.4	139.5	149.6	156.8	165.7
77.5°	95.0	99.2	105.1	111.0	119.4
80°	63.5	65.3	70.7	71.8	78.4
82.5°	38.6	39.8	41.0	41.6	43.9
85°	20.8	20.8	20.8	19.6	19.6
87.5°	11.9	11.9	10.1	8.3	5.9
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)