

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: P555994

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-94-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: P555994
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-LD4-3STD-35-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

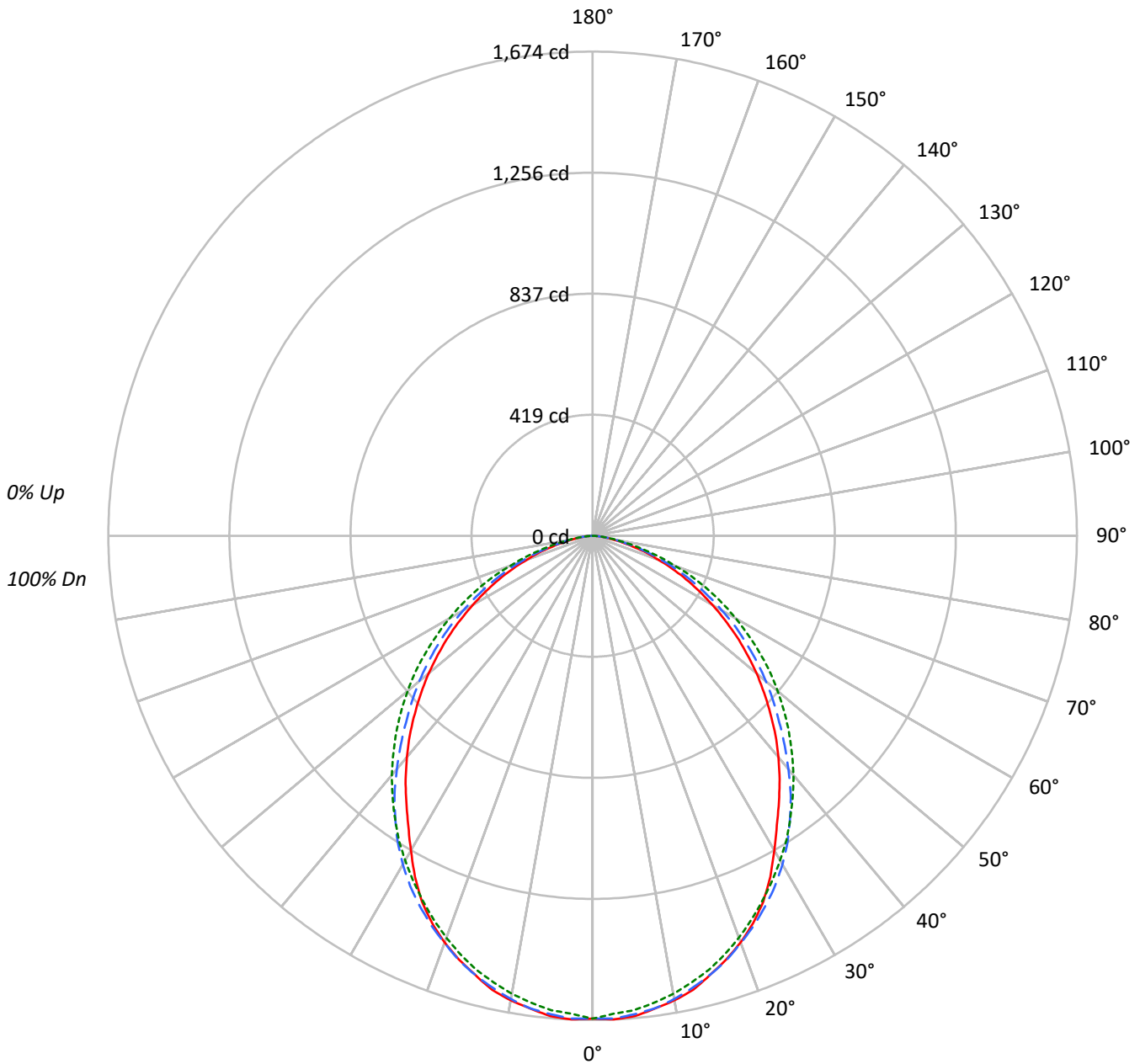
Lumens per Lamp: N/A
Luminaire Lumens: 3860.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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				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			
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°	8985	8985	8985
5°	9008	8970	8894
10°	8913	8888	8787
15°	8754	8754	8655
20°	8569	8580	8470
25°	8287	8390	8257
30°	7804	8154	8055
35°	7374	7816	7829
40°	7015	7394	7588
45°	6614	6946	7302
50°	6191	6546	6991
55°	5711	6090	6613
60°	5143	5557	6151
65°	4541	4941	5594
70°	3784	4208	4754
75°	2974	3360	3720
80°	2126	2365	2625
85°	1383	1383	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	4.1
10°-20°	441.5	11.4
20°-30°	645.2	16.7
30°-40°	732.4	19.0
40°-50°	707.0	18.3
50°-60°	583.3	15.1
60°-70°	388.4	10.1
70°-80°	173.8	4.5
80°-90°	31.1	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°	1244.0	32.2
0°-40°	1976.4	51.2
0°-60°	3266.7	84.6
0°-90°	3860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1667	1667	1660	1651	1646	158
15°	1571	1575	1571	1564	1553	443
25°	1396	1406	1413	1403	1390	639
35°	1122	1138	1190	1196	1192	703
45°	869	884	913	954	959	670
55°	609	619	649	685	705	543
65°	357	366	388	416	439	354
75°	143	151	162	169	179	156
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.4	1669.4	1669.4	1669.4	1669.4
2.5°	1673.8	1674.5	1670.6	1660.4	1654.0
5°	1667.4	1666.8	1660.4	1651.4	1646.3
7.5°	1648.8	1650.1	1648.2	1635.4	1628.3
10°	1630.9	1631.5	1626.4	1616.1	1607.8
12.5°	1607.8	1607.1	1600.1	1595.0	1581.5
15°	1571.2	1575.1	1571.2	1564.2	1553.3
17.5°	1536.0	1536.0	1538.5	1526.3	1518.0
20°	1496.2	1498.1	1498.1	1488.5	1478.9
22.5°	1450.0	1455.8	1457.7	1447.5	1435.9
25°	1395.5	1406.4	1412.8	1402.6	1390.4
27.5°	1329.5	1346.1	1365.4	1357.7	1344.2
30°	1255.7	1280.1	1312.1	1305.7	1296.1
32.5°	1185.8	1210.2	1254.4	1251.9	1246.7
35°	1122.3	1137.7	1189.6	1196.1	1191.6
37.5°	1062.0	1076.1	1124.9	1139.6	1135.8
40°	998.5	1013.9	1052.4	1078.7	1080.0
42.5°	935.7	950.4	981.9	1019.7	1019.7
45°	869.0	883.7	912.6	954.3	959.4
47.5°	803.6	819.0	847.2	888.9	897.2
50°	739.4	753.5	781.8	822.2	835.0
52.5°	672.7	688.1	715.7	752.9	771.5
55°	608.6	618.9	649.0	684.9	704.8
57.5°	541.9	551.5	585.5	616.3	636.8
60°	477.8	490.0	516.3	547.7	571.4
62.5°	416.2	429.0	451.5	479.1	506.0
65°	356.6	366.2	388.0	415.6	439.3
67.5°	298.9	307.2	329.0	348.2	373.2
70°	240.5	251.4	267.4	286.0	302.1
72.5°	193.7	198.2	211.6	225.1	241.8
75°	143.0	150.7	161.6	169.3	178.9
77.5°	102.6	107.1	113.5	119.9	128.9
80°	68.6	70.5	76.3	77.6	84.7
82.5°	41.7	43.0	44.3	44.9	47.5
85°	22.4	22.4	22.4	21.2	21.2
87.5°	12.8	12.8	10.9	9.0	6.4
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)