

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: P554699

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-94-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: P554699
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-LD4-2HI-35-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

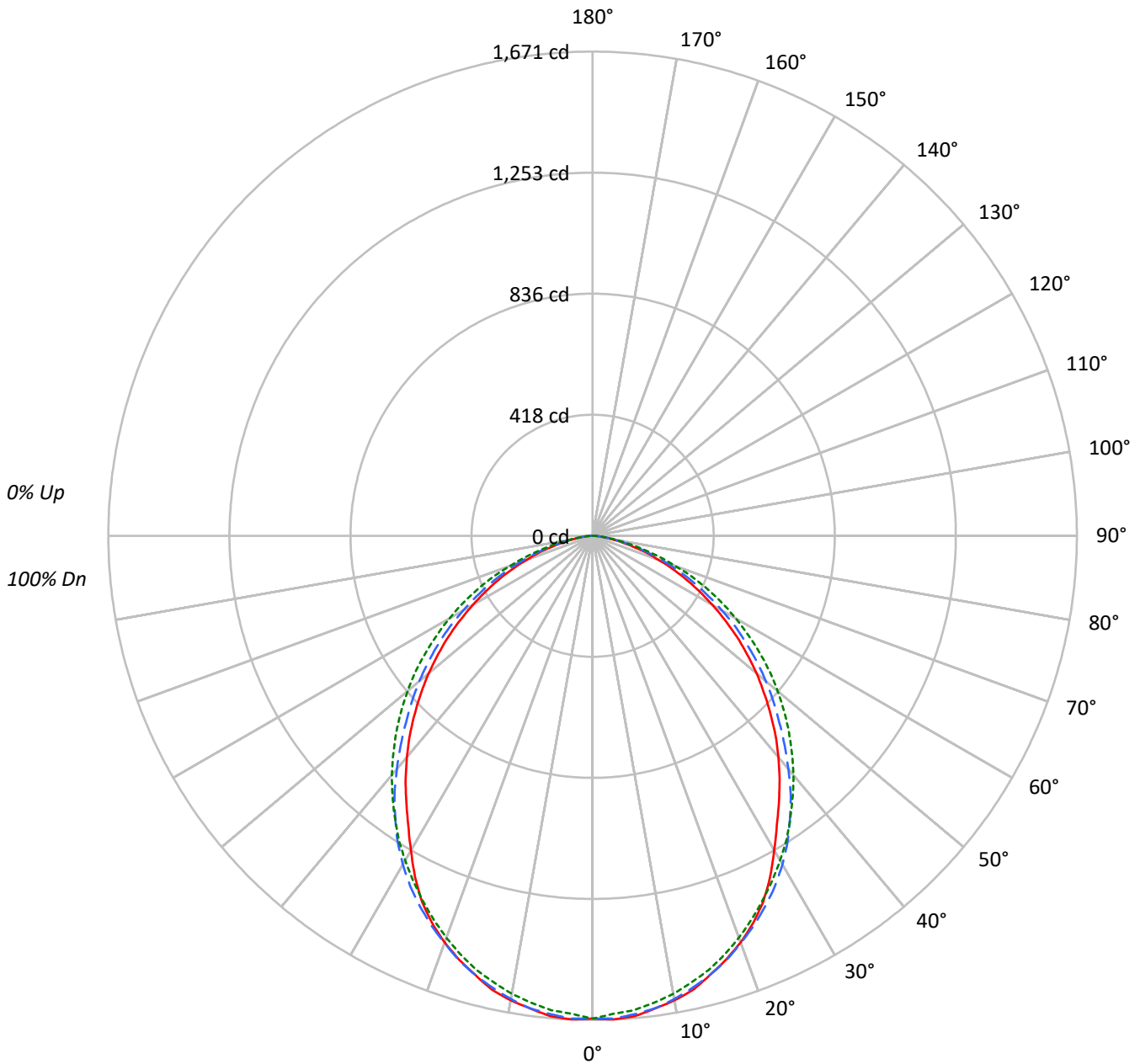
Lumens per Lamp: N/A
Luminaire Lumens: 3853.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8968	8968	8968
5°	8992	8954	8878
10°	8896	8872	8771
15°	8739	8739	8639
20°	8554	8565	8455
25°	8272	8375	8242
30°	7789	8140	8040
35°	7361	7802	7815
40°	7002	7380	7574
45°	6602	6933	7289
50°	6180	6533	6979
55°	5700	6078	6601
60°	5133	5547	6140
65°	4532	4932	5584
70°	3778	4200	4744
75°	2969	3354	3714
80°	2123	2362	2619
85°	1383	1383	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	4.1
10°-20°	440.7	11.4
20°-30°	644.1	16.7
30°-40°	731.1	19.0
40°-50°	705.8	18.3
50°-60°	582.2	15.1
60°-70°	387.7	10.1
70°-80°	173.5	4.5
80°-90°	31.0	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°	1241.7	32.2
0°-40°	1972.8	51.2
0°-60°	3260.8	84.6
0°-90°	3853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1664	1664	1657	1648	1643	158
15°	1568	1572	1568	1561	1550	442
25°	1393	1404	1410	1400	1388	638
35°	1120	1136	1188	1194	1189	702
45°	867	882	911	953	958	669
55°	608	618	648	684	704	542
65°	356	366	387	415	438	353
75°	143	150	161	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°	1666.3	1666.3	1666.3	1666.3	1666.3
2.5°	1670.8	1671.4	1667.6	1657.4	1651.0
5°	1664.4	1663.8	1657.4	1648.4	1643.3
7.5°	1645.8	1647.1	1645.2	1632.4	1625.4
10°	1627.9	1628.6	1623.4	1613.2	1604.9
12.5°	1604.9	1604.2	1597.2	1592.1	1578.6
15°	1568.4	1572.2	1568.4	1561.3	1550.5
17.5°	1533.2	1533.2	1535.7	1523.6	1515.2
20°	1493.5	1495.4	1495.4	1485.8	1476.2
22.5°	1447.4	1453.2	1455.1	1444.8	1433.3
25°	1393.0	1403.9	1410.3	1400.0	1387.9
27.5°	1327.0	1343.7	1362.9	1355.2	1341.8
30°	1253.4	1277.7	1309.8	1303.4	1293.8
32.5°	1183.6	1208.0	1252.1	1249.6	1244.5
35°	1120.3	1135.6	1187.5	1193.9	1189.4
37.5°	1060.1	1074.2	1122.8	1137.6	1133.7
40°	996.7	1012.1	1050.5	1076.7	1078.0
42.5°	934.0	948.7	980.1	1017.8	1017.8
45°	867.4	882.1	910.9	952.6	957.7
47.5°	802.1	817.5	845.6	887.3	895.6
50°	738.1	752.2	780.3	820.7	833.5
52.5°	671.5	686.9	714.4	751.5	770.1
55°	607.5	617.7	647.8	683.7	703.5
57.5°	540.9	550.5	584.5	615.2	635.7
60°	476.9	489.1	515.3	546.7	570.4
62.5°	415.5	428.3	450.7	478.2	505.1
65°	355.9	365.5	387.3	414.8	438.5
67.5°	298.3	306.6	328.4	347.6	372.6
70°	240.1	250.9	266.9	285.5	301.5
72.5°	193.3	197.8	211.3	224.7	241.3
75°	142.8	150.4	161.3	169.0	178.6
77.5°	102.4	106.9	113.3	119.7	128.7
80°	68.5	70.4	76.2	77.5	84.5
82.5°	41.6	42.9	44.2	44.8	47.4
85°	22.4	22.4	22.4	21.1	21.1
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)