

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: P555821

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-96-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: P555821
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-40-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

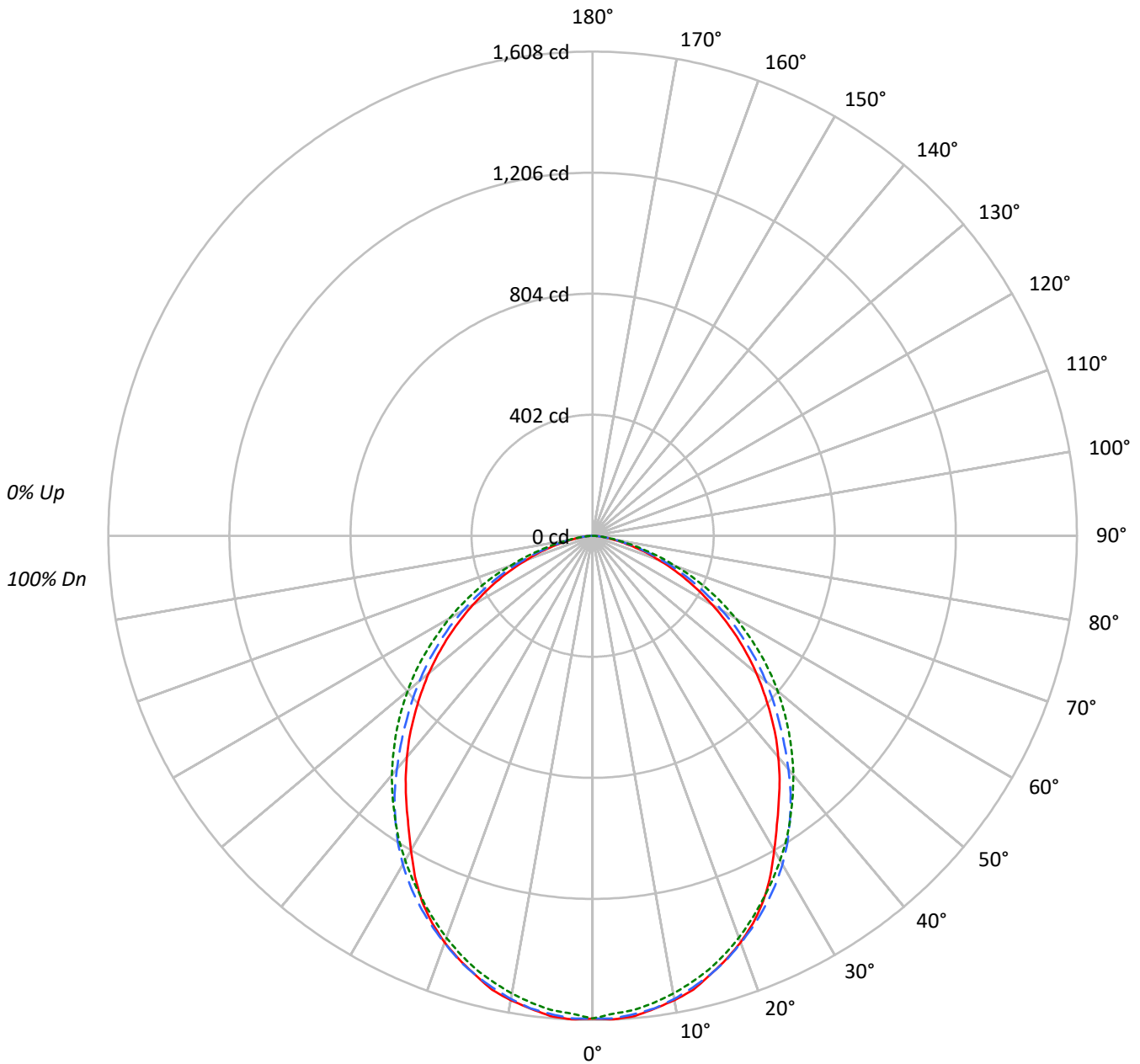
Lumens per Lamp: N/A
Luminaire Lumens: 3707.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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									
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°	8628	8628	8628
5°	8651	8615	8541
10°	8559	8536	8438
15°	8407	8407	8311
20°	8230	8240	8135
25°	7959	8057	7929
30°	7494	7831	7735
35°	7081	7506	7518
40°	6738	7101	7287
45°	6352	6670	7013
50°	5946	6286	6714
55°	5484	5849	6351
60°	4938	5337	5907
65°	4360	4745	5373
70°	3635	4041	4565
75°	2855	3227	3572
80°	2042	2272	2520
85°	1334	1334	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	4.1
10°-20°	424.0	11.4
20°-30°	619.7	16.7
30°-40°	703.4	19.0
40°-50°	679.0	18.3
50°-60°	560.1	15.1
60°-70°	373.0	10.1
70°-80°	166.9	4.5
80°-90°	29.9	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°	1194.7	32.2
0°-40°	1898.0	51.2
0°-60°	3137.2	84.6
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1601	1601	1595	1586	1581	152
15°	1509	1513	1509	1502	1492	425
25°	1340	1351	1357	1347	1335	614
35°	1078	1093	1142	1149	1144	675
45°	834	849	876	916	921	644
55°	584	594	623	658	677	522
65°	342	352	373	399	422	340
75°	137	145	155	163	172	150
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1607.5	1608.1	1604.4	1594.6	1588.4
5°	1601.3	1600.7	1594.6	1585.9	1581.0
7.5°	1583.5	1584.7	1582.9	1570.5	1563.8
10°	1566.2	1566.8	1561.9	1552.1	1544.1
12.5°	1544.1	1543.4	1536.7	1531.7	1518.8
15°	1508.9	1512.6	1508.9	1502.2	1491.7
17.5°	1475.1	1475.1	1477.5	1465.8	1457.8
20°	1436.9	1438.7	1438.7	1429.5	1420.3
22.5°	1392.5	1398.1	1399.9	1390.1	1379.0
25°	1340.2	1350.7	1356.8	1347.0	1335.3
27.5°	1276.8	1292.8	1311.2	1303.9	1290.9
30°	1205.9	1229.3	1260.1	1254.0	1244.7
32.5°	1138.8	1162.2	1204.7	1202.2	1197.3
35°	1077.8	1092.6	1142.5	1148.6	1144.3
37.5°	1019.9	1033.5	1080.3	1094.5	1090.8
40°	959.0	973.7	1010.7	1035.9	1037.2
42.5°	898.6	912.8	942.9	979.3	979.3
45°	834.5	848.7	876.4	916.5	921.4
47.5°	771.7	786.5	813.6	853.6	861.6
50°	710.1	723.7	750.8	789.6	801.9
52.5°	646.1	660.9	687.3	723.1	740.9
55°	584.5	594.3	623.3	657.8	676.9
57.5°	520.4	529.7	562.3	591.9	611.6
60°	458.8	470.5	495.8	526.0	548.8
62.5°	399.7	412.0	433.6	460.1	485.9
65°	342.4	351.7	372.6	399.1	421.9
67.5°	287.0	295.0	316.0	334.4	358.5
70°	231.0	241.4	256.8	274.7	290.1
72.5°	186.0	190.3	203.2	216.2	232.2
75°	137.3	144.7	155.2	162.6	171.8
77.5°	98.5	102.9	109.0	115.2	123.8
80°	65.9	67.7	73.3	74.5	81.3
82.5°	40.0	41.3	42.5	43.1	45.6
85°	21.6	21.6	21.6	20.3	20.3
87.5°	12.3	12.3	10.5	8.6	6.2
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)