

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: P555855

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-97-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: P555855
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-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

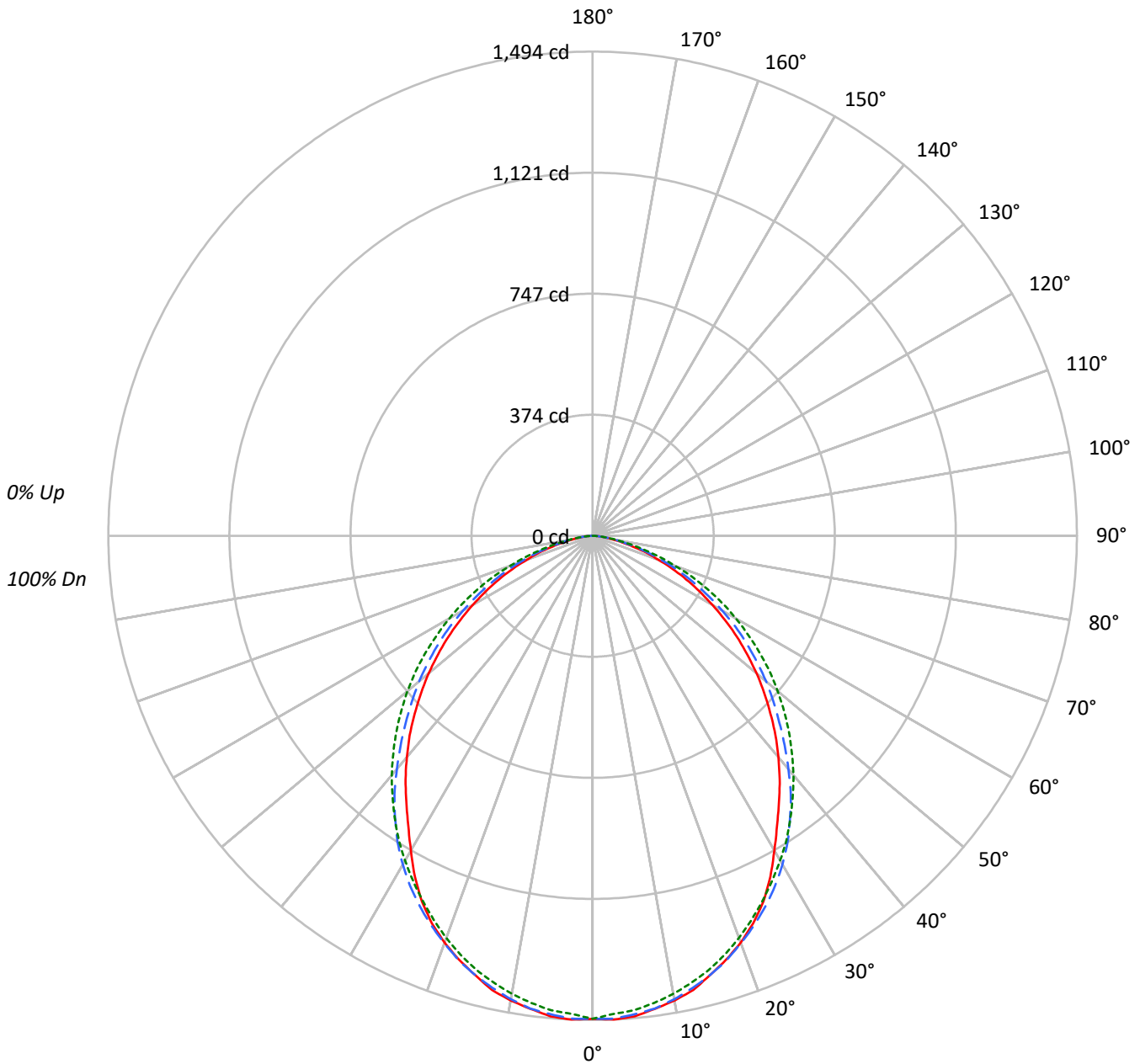
Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8021	8021	8021
5°	8042	8008	7940
10°	7957	7935	7844
15°	7816	7816	7726
20°	7650	7660	7562
25°	7398	7490	7371
30°	6967	7280	7191
35°	6583	6978	6989
40°	6263	6601	6773
45°	5905	6201	6519
50°	5527	5843	6241
55°	5098	5437	5904
60°	4591	4961	5491
65°	4053	4411	4995
70°	3378	3756	4244
75°	2655	3001	3321
80°	1900	2111	2343
85°	1235	1235	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	4.1
10°-20°	394.2	11.4
20°-30°	576.0	16.7
30°-40°	653.9	19.0
40°-50°	631.2	18.3
50°-60°	520.7	15.1
60°-70°	346.7	10.1
70°-80°	155.2	4.5
80°-90°	27.8	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°	1110.5	32.2
0°-40°	1764.4	51.2
0°-60°	2916.3	84.6
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1489	1488	1482	1474	1470	141
15°	1403	1406	1403	1396	1387	395
25°	1246	1256	1261	1252	1241	571
35°	1002	1016	1062	1068	1064	628
45°	776	789	815	852	856	599
55°	543	552	579	612	629	485
65°	318	327	346	371	392	316
75°	128	134	144	151	160	140
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°	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1494.3	1494.9	1491.5	1482.3	1476.6
5°	1488.6	1488.0	1482.3	1474.3	1469.7
7.5°	1472.0	1473.1	1471.4	1460.0	1453.7
10°	1456.0	1456.5	1451.9	1442.8	1435.3
12.5°	1435.3	1434.8	1428.5	1423.9	1411.9
15°	1402.7	1406.1	1402.7	1396.4	1386.7
17.5°	1371.2	1371.2	1373.5	1362.6	1355.2
20°	1335.7	1337.4	1337.4	1328.9	1320.3
22.5°	1294.5	1299.7	1301.4	1292.2	1281.9
25°	1245.8	1255.6	1261.3	1252.1	1241.3
27.5°	1186.9	1201.7	1218.9	1212.1	1200.0
30°	1121.0	1142.8	1171.4	1165.7	1157.1
32.5°	1058.6	1080.4	1119.9	1117.6	1113.0
35°	1001.9	1015.7	1062.1	1067.8	1063.8
37.5°	948.1	960.7	1004.2	1017.4	1014.0
40°	891.4	905.2	939.5	963.0	964.1
42.5°	835.3	848.5	876.5	910.3	910.3
45°	775.8	789.0	814.7	851.9	856.5
47.5°	717.4	731.1	756.3	793.5	801.0
50°	660.1	672.7	697.9	734.0	745.4
52.5°	600.6	614.3	638.9	672.2	688.8
55°	543.3	552.5	579.4	611.5	629.2
57.5°	483.8	492.4	522.7	550.2	568.5
60°	426.5	437.4	460.9	488.9	510.1
62.5°	371.6	383.0	403.1	427.7	451.7
65°	318.3	326.9	346.4	371.0	392.2
67.5°	266.8	274.2	293.7	310.9	333.2
70°	214.7	224.4	238.7	255.4	269.7
72.5°	172.9	176.9	188.9	201.0	215.8
75°	127.7	134.5	144.3	151.1	159.7
77.5°	91.6	95.6	101.3	107.1	115.1
80°	61.3	63.0	68.1	69.3	75.6
82.5°	37.2	38.4	39.5	40.1	42.4
85°	20.0	20.0	20.0	18.9	18.9
87.5°	11.5	11.5	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)