

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: P554794

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-94-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: P554794
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-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

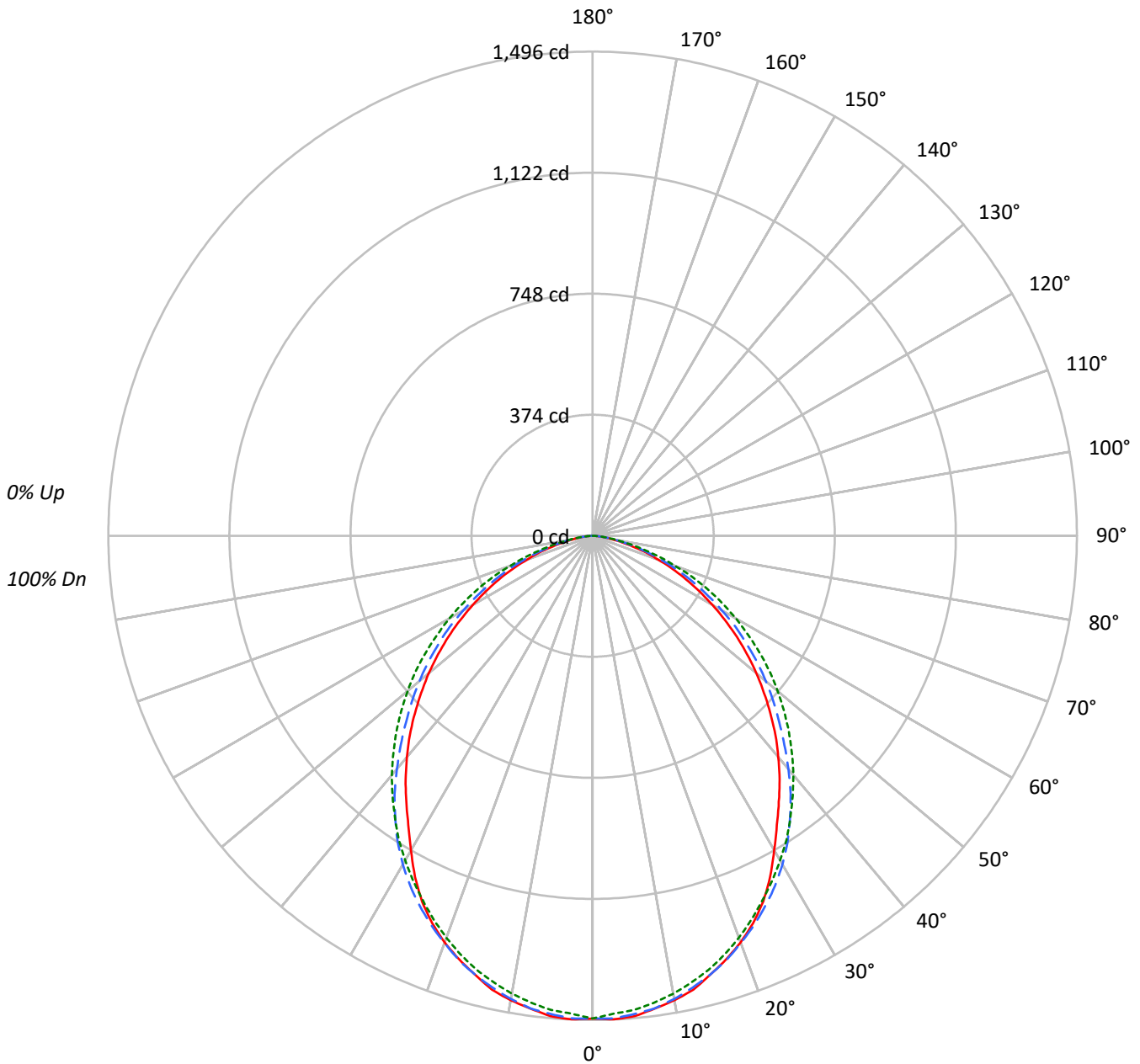
Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8028	8028	8028
5°	8049	8015	7947
10°	7964	7942	7851
15°	7822	7822	7733
20°	7657	7667	7568
25°	7405	7497	7377
30°	6973	7286	7197
35°	6589	6984	6995
40°	6268	6606	6780
45°	5910	6206	6525
50°	5532	5848	6247
55°	5103	5441	5910
60°	4595	4965	5496
65°	4057	4415	4998
70°	3382	3761	4247
75°	2658	3003	3325
80°	1900	2114	2343
85°	1241	1241	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.1
10°-20°	394.5	11.4
20°-30°	576.5	16.7
30°-40°	654.4	19.0
40°-50°	631.8	18.3
50°-60°	521.2	15.1
60°-70°	347.1	10.1
70°-80°	155.3	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°	1111.5	32.2
0°-40°	1766.0	51.2
0°-60°	2918.9	84.6
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1490	1489	1484	1476	1471	141
15°	1404	1407	1404	1398	1388	396
25°	1247	1257	1262	1253	1242	571
35°	1003	1017	1063	1069	1065	628
45°	776	790	815	853	857	599
55°	544	553	580	612	630	485
65°	319	327	347	371	392	316
75°	128	135	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°	1491.6	1491.6	1491.6	1491.6	1491.6
2.5°	1495.6	1496.2	1492.7	1483.6	1477.9
5°	1489.9	1489.3	1483.6	1475.6	1471.0
7.5°	1473.3	1474.4	1472.7	1461.2	1454.9
10°	1457.2	1457.8	1453.2	1444.0	1436.6
12.5°	1436.6	1436.0	1429.7	1425.1	1413.1
15°	1403.9	1407.4	1403.9	1397.6	1387.9
17.5°	1372.4	1372.4	1374.7	1363.8	1356.4
20°	1336.9	1338.6	1338.6	1330.0	1321.4
22.5°	1295.6	1300.8	1302.5	1293.3	1283.0
25°	1246.9	1256.7	1262.4	1253.2	1242.3
27.5°	1187.9	1202.8	1220.0	1213.1	1201.1
30°	1122.0	1143.8	1172.4	1166.7	1158.1
32.5°	1059.5	1081.3	1120.9	1118.6	1114.0
35°	1002.8	1016.6	1063.0	1068.7	1064.7
37.5°	948.9	961.5	1005.1	1018.3	1014.8
40°	892.2	906.0	940.3	963.8	965.0
42.5°	836.1	849.2	877.3	911.1	911.1
45°	776.5	789.6	815.4	852.7	857.3
47.5°	718.0	731.8	757.0	794.2	801.7
50°	660.7	673.3	698.5	734.6	746.1
52.5°	601.1	614.9	639.5	672.7	689.4
55°	543.8	553.0	579.9	612.0	629.8
57.5°	484.2	492.8	523.2	550.7	569.0
60°	426.9	437.8	461.3	489.4	510.6
62.5°	371.9	383.4	403.4	428.1	452.1
65°	318.6	327.2	346.7	371.3	392.5
67.5°	267.0	274.5	294.0	311.2	333.5
70°	214.9	224.6	239.0	255.6	269.9
72.5°	173.1	177.1	189.1	201.1	216.0
75°	127.8	134.7	144.4	151.3	159.9
77.5°	91.7	95.7	101.4	107.2	115.2
80°	61.3	63.0	68.2	69.3	75.6
82.5°	37.2	38.4	39.5	40.1	42.4
85°	20.1	20.1	20.1	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)