

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: P554685

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-96-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: P554685
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-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

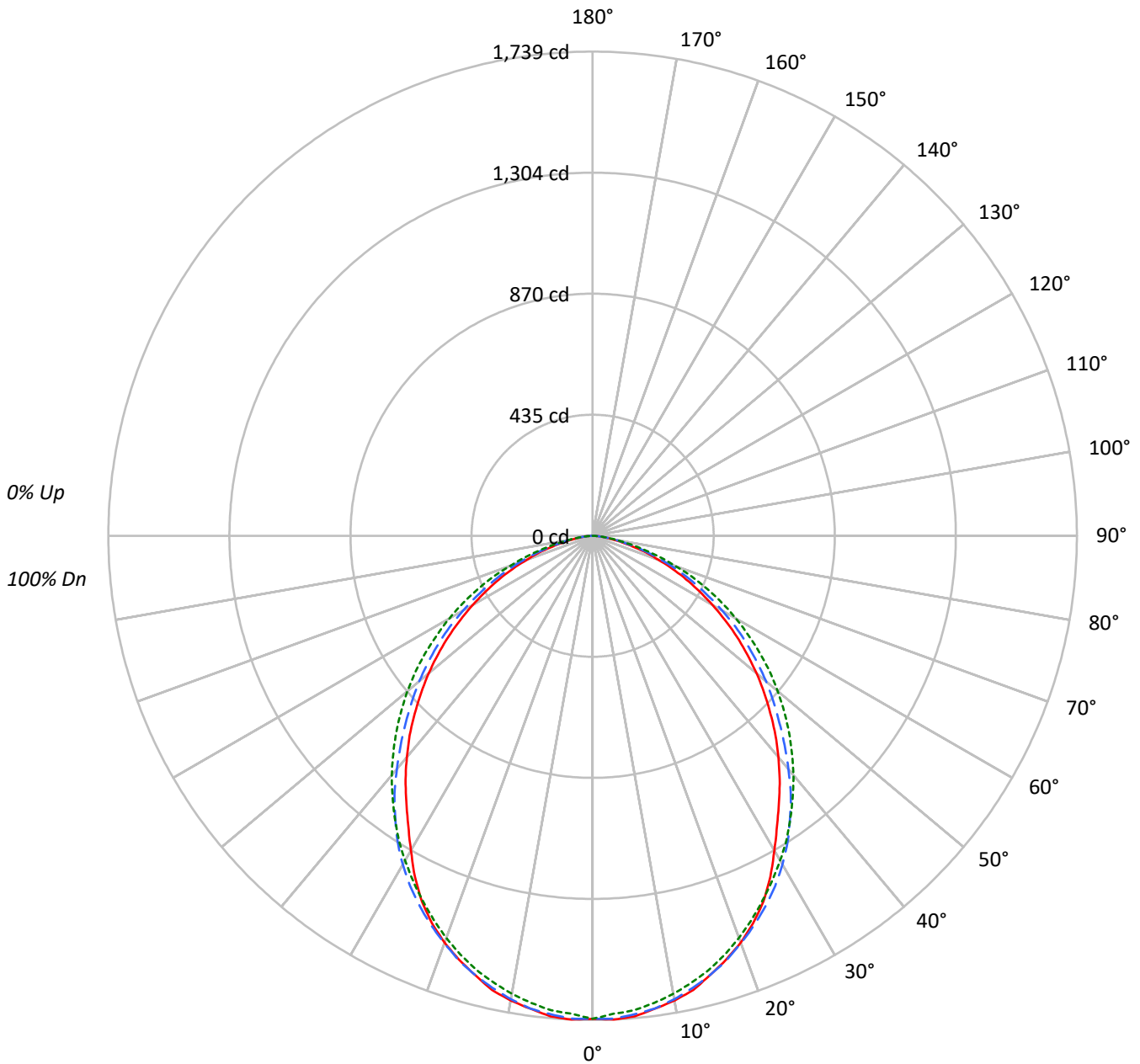
Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9336	9336	9336
5°	9361	9321	9242
10°	9262	9236	9130
15°	9097	9097	8993
20°	8904	8916	8801
25°	8611	8718	8580
30°	8109	8474	8370
35°	7662	8122	8135
40°	7290	7683	7884
45°	6873	7218	7588
50°	6434	6801	7265
55°	5934	6328	6872
60°	5344	5775	6392
65°	4718	5135	5813
70°	3932	4373	4939
75°	3090	3491	3866
80°	2210	2458	2727
85°	1439	1439	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	4.1
10°-20°	458.8	11.4
20°-30°	670.5	16.7
30°-40°	761.1	19.0
40°-50°	734.7	18.3
50°-60°	606.1	15.1
60°-70°	403.6	10.1
70°-80°	180.6	4.5
80°-90°	32.3	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°	1292.6	32.2
0°-40°	2053.7	51.2
0°-60°	3394.5	84.6
0°-90°	4011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1733	1732	1725	1716	1711	164
15°	1633	1637	1633	1625	1614	460
25°	1450	1461	1468	1457	1445	664
35°	1166	1182	1236	1243	1238	731
45°	903	918	948	992	997	697
55°	632	643	674	712	732	564
65°	370	380	403	432	456	367
75°	149	157	168	176	186	162
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	1739.3	1740.0	1736.0	1725.3	1718.7
5°	1732.7	1732.0	1725.3	1716.0	1710.7
7.5°	1713.3	1714.7	1712.7	1699.3	1692.0
10°	1694.7	1695.3	1690.0	1679.3	1670.7
12.5°	1670.7	1670.0	1662.7	1657.4	1643.4
15°	1632.7	1636.7	1632.7	1625.4	1614.0
17.5°	1596.0	1596.0	1598.7	1586.0	1577.4
20°	1554.7	1556.7	1556.7	1546.7	1536.7
22.5°	1506.7	1512.7	1514.7	1504.1	1492.1
25°	1450.1	1461.4	1468.1	1457.4	1444.8
27.5°	1381.5	1398.8	1418.8	1410.8	1396.8
30°	1304.8	1330.1	1363.5	1356.8	1346.8
32.5°	1232.2	1257.5	1303.5	1300.8	1295.5
35°	1166.2	1182.2	1236.2	1242.8	1238.2
37.5°	1103.6	1118.2	1168.9	1184.2	1180.2
40°	1037.6	1053.6	1093.6	1120.9	1122.2
42.5°	972.3	987.6	1020.3	1059.6	1059.6
45°	903.0	918.3	948.3	991.6	996.9
47.5°	835.0	851.0	880.3	923.6	932.3
50°	768.4	783.0	812.3	854.3	867.7
52.5°	699.1	715.1	743.7	782.4	801.7
55°	632.4	643.1	674.4	711.7	732.4
57.5°	563.1	573.1	608.4	640.4	661.7
60°	496.5	509.1	536.5	569.1	593.8
62.5°	432.5	445.8	469.1	497.8	525.8
65°	370.5	380.5	403.2	431.8	456.5
67.5°	310.5	319.2	341.9	361.9	387.8
70°	249.9	261.2	277.9	297.2	313.9
72.5°	201.3	205.9	219.9	233.9	251.2
75°	148.6	156.6	167.9	175.9	185.9
77.5°	106.6	111.3	118.0	124.6	133.9
80°	71.3	73.3	79.3	80.6	88.0
82.5°	43.3	44.6	46.0	46.6	49.3
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	6.7
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)