

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: P555952

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-84-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: P555952
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-LD4-3STD-35-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

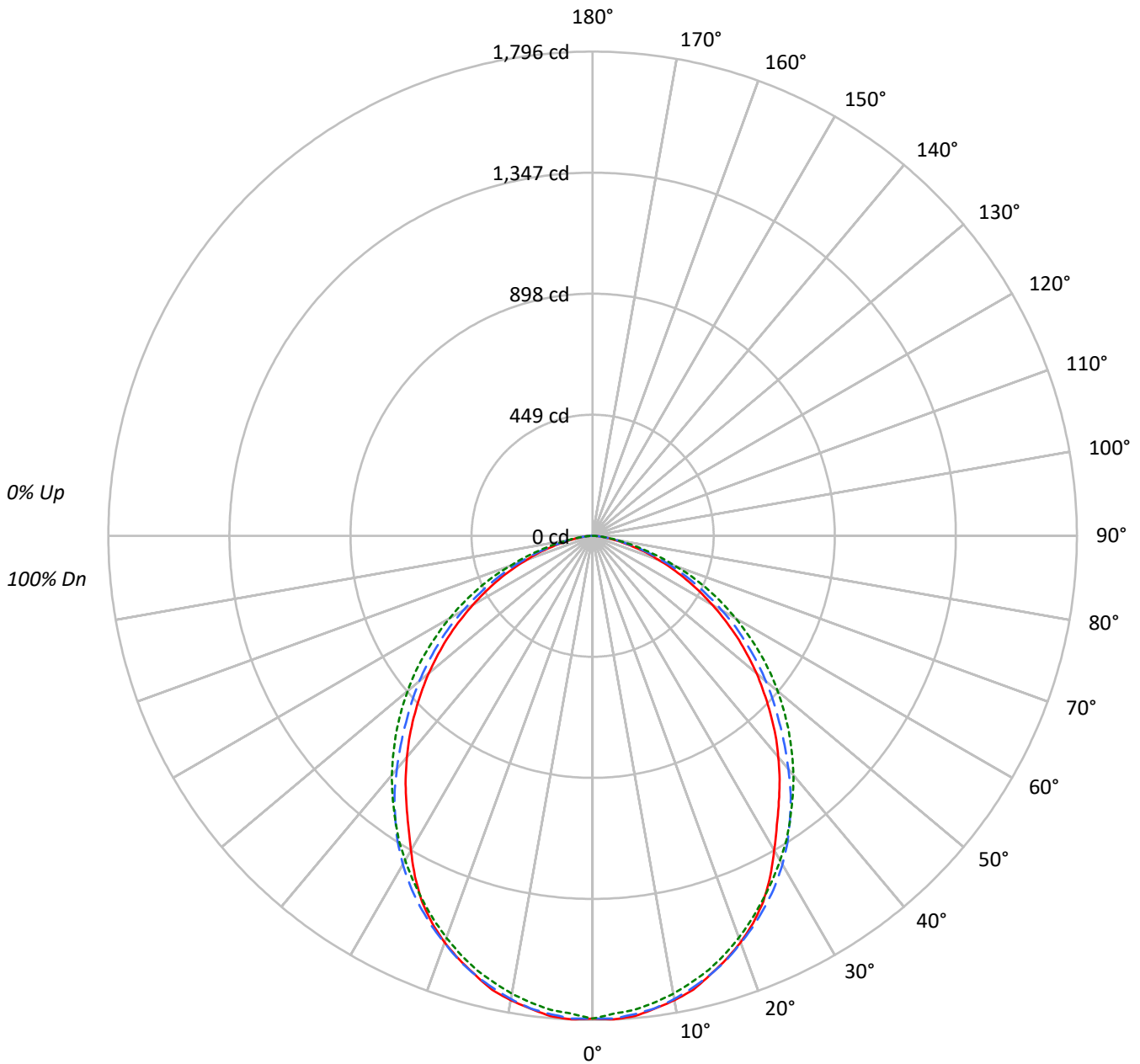
Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P555952

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-80-84-EDD-90

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°	9639	9639	9639
5°	9664	9623	9541
10°	9562	9535	9426
15°	9392	9392	9284
20°	9193	9205	9086
25°	8890	9001	8858
30°	8372	8748	8641
35°	7910	8385	8399
40°	7526	7932	8140
45°	7095	7451	7834
50°	6642	7022	7500
55°	6126	6533	7095
60°	5518	5961	6598
65°	4871	5300	6002
70°	4060	4515	5100
75°	3190	3606	3993
80°	2281	2538	2814
85°	1488	1488	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	4.1
10°-20°	473.7	11.4
20°-30°	692.2	16.7
30°-40°	785.7	19.0
40°-50°	758.5	18.3
50°-60°	625.7	15.1
60°-70°	416.7	10.1
70°-80°	186.5	4.5
80°-90°	33.4	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°	1334.5	32.2
0°-40°	2120.3	51.2
0°-60°	3504.5	84.6
0°-90°	4141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1789	1788	1781	1772	1766	169
15°	1686	1690	1686	1678	1666	475
25°	1497	1509	1516	1505	1492	686
35°	1204	1220	1276	1283	1278	754
45°	932	948	979	1024	1029	719
55°	653	664	696	735	756	583
65°	382	393	416	446	471	379
75°	153	162	173	182	192	168
85°	24	24	24	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.9	1790.9	1790.9	1790.9	1790.9
2.5°	1795.7	1796.4	1792.3	1781.2	1774.4
5°	1788.8	1788.1	1781.2	1771.6	1766.1
7.5°	1768.9	1770.2	1768.2	1754.4	1746.8
10°	1749.6	1750.3	1744.8	1733.8	1724.8
12.5°	1724.8	1724.1	1716.6	1711.1	1696.6
15°	1685.6	1689.7	1685.6	1678.0	1666.3
17.5°	1647.8	1647.8	1650.5	1637.5	1628.5
20°	1605.1	1607.2	1607.2	1596.9	1586.5
22.5°	1555.6	1561.8	1563.8	1552.8	1540.4
25°	1497.1	1508.8	1515.7	1504.7	1491.6
27.5°	1426.2	1444.1	1464.8	1456.5	1442.1
30°	1347.1	1373.3	1407.7	1400.8	1390.5
32.5°	1272.1	1298.3	1345.7	1343.0	1337.5
35°	1204.0	1220.5	1276.2	1283.1	1278.3
37.5°	1139.3	1154.5	1206.8	1222.6	1218.5
40°	1071.2	1087.7	1129.0	1157.2	1158.6
42.5°	1003.8	1019.6	1053.3	1093.9	1093.9
45°	932.2	948.1	979.0	1023.8	1029.3
47.5°	862.1	878.6	908.9	953.6	962.5
50°	793.3	808.4	838.7	882.0	895.8
52.5°	721.7	738.2	767.8	807.7	827.7
55°	652.9	663.9	696.3	734.8	756.1
57.5°	581.4	591.7	628.1	661.2	683.2
60°	512.6	525.6	553.8	587.6	613.0
62.5°	446.5	460.3	484.4	513.9	542.8
65°	382.5	392.9	416.2	445.8	471.3
67.5°	320.6	329.6	352.9	373.6	400.4
70°	258.0	269.7	286.9	306.8	324.1
72.5°	207.8	212.6	227.0	241.5	259.4
75°	153.4	161.7	173.4	181.6	192.0
77.5°	110.1	114.9	121.8	128.7	138.3
80°	73.6	75.7	81.9	83.2	90.8
82.5°	44.7	46.1	47.5	48.2	50.9
85°	24.1	24.1	24.1	22.7	22.7
87.5°	13.8	13.8	11.7	9.6	6.9
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)