

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: P555962

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-94-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: P555962
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-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

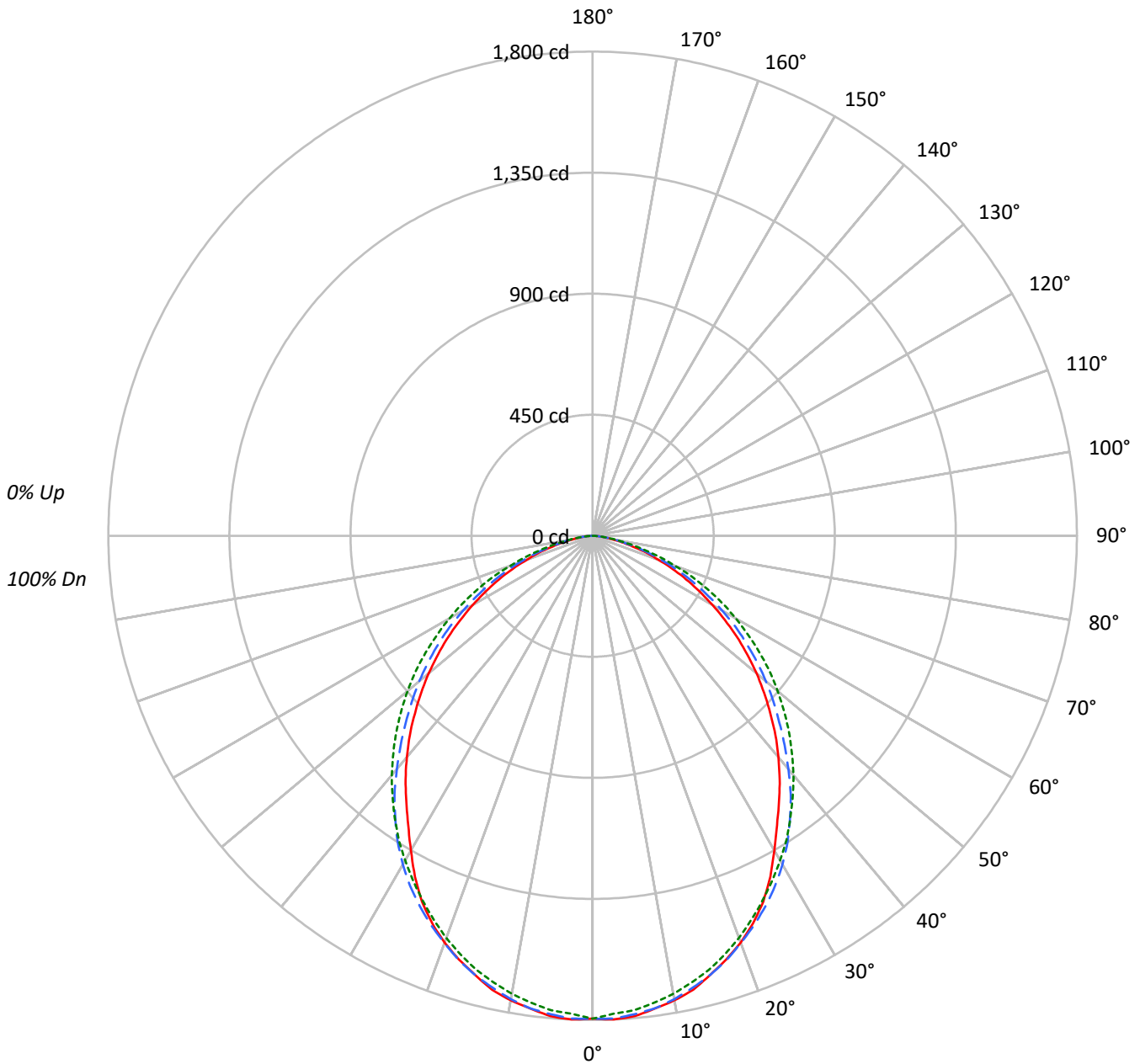
Lumens per Lamp: N/A
Luminaire Lumens: 4151.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	9662	9662	9662
5°	9687	9646	9565
10°	9584	9558	9449
15°	9415	9415	9307
20°	9215	9227	9109
25°	8912	9022	8879
30°	8392	8769	8662
35°	7930	8405	8419
40°	7544	7951	8160
45°	7113	7470	7853
50°	6658	7039	7518
55°	6141	6549	7111
60°	5530	5976	6614
65°	4884	5313	6016
70°	4069	4526	5111
75°	3198	3614	4001
80°	2287	2545	2820
85°	1488	1488	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	4.1
10°-20°	474.8	11.4
20°-30°	693.9	16.7
30°-40°	787.6	19.0
40°-50°	760.3	18.3
50°-60°	627.2	15.1
60°-70°	417.7	10.1
70°-80°	186.9	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°	1337.7	32.2
0°-40°	2125.4	51.2
0°-60°	3513.0	84.6
0°-90°	4151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1793	1792	1786	1776	1770	170
15°	1690	1694	1690	1682	1670	476
25°	1501	1512	1519	1508	1495	687
35°	1207	1224	1279	1286	1281	756
45°	934	950	981	1026	1032	721
55°	654	666	698	737	758	584
65°	384	394	417	447	472	380
75°	154	162	174	182	192	168
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1800.0	1800.7	1796.6	1785.5	1778.6
5°	1793.1	1792.4	1785.5	1775.9	1770.4
7.5°	1773.1	1774.5	1772.4	1758.6	1751.1
10°	1753.8	1754.5	1749.0	1738.0	1729.0
12.5°	1729.0	1728.3	1720.7	1715.2	1700.7
15°	1689.7	1693.8	1689.7	1682.1	1670.4
17.5°	1651.7	1651.7	1654.5	1641.4	1632.4
20°	1609.0	1611.1	1611.1	1600.7	1590.4
22.5°	1559.3	1565.5	1567.6	1556.6	1544.2
25°	1500.7	1512.4	1519.3	1508.3	1495.2
27.5°	1429.7	1447.6	1468.3	1460.0	1445.5
30°	1350.4	1376.6	1411.1	1404.2	1393.8
32.5°	1275.2	1301.4	1349.0	1346.2	1340.7
35°	1206.9	1223.5	1279.3	1286.2	1281.4
37.5°	1142.1	1157.3	1209.7	1225.5	1221.4
40°	1073.8	1090.4	1131.7	1160.0	1161.4
42.5°	1006.2	1022.1	1055.9	1096.6	1096.6
45°	934.5	950.4	981.4	1026.2	1031.7
47.5°	864.2	880.7	911.0	955.9	964.8
50°	795.2	810.4	840.7	884.2	897.9
52.5°	723.5	740.0	769.7	809.7	829.7
55°	654.5	665.5	697.9	736.6	757.9
57.5°	582.8	593.1	629.7	662.8	684.8
60°	513.8	526.9	555.2	589.0	614.5
62.5°	447.6	461.4	485.5	515.2	544.1
65°	383.5	393.8	417.2	446.9	472.4
67.5°	321.4	330.3	353.8	374.5	401.4
70°	258.6	270.3	287.6	307.6	324.8
72.5°	208.3	213.1	227.6	242.1	260.0
75°	153.8	162.1	173.8	182.1	192.4
77.5°	110.3	115.2	122.1	129.0	138.6
80°	73.8	75.9	82.1	83.4	91.0
82.5°	44.8	46.2	47.6	48.3	51.0
85°	24.1	24.1	24.1	22.8	22.8
87.5°	13.8	13.8	11.7	9.7	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)