

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: P556115

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-85-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: P556115
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-50-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

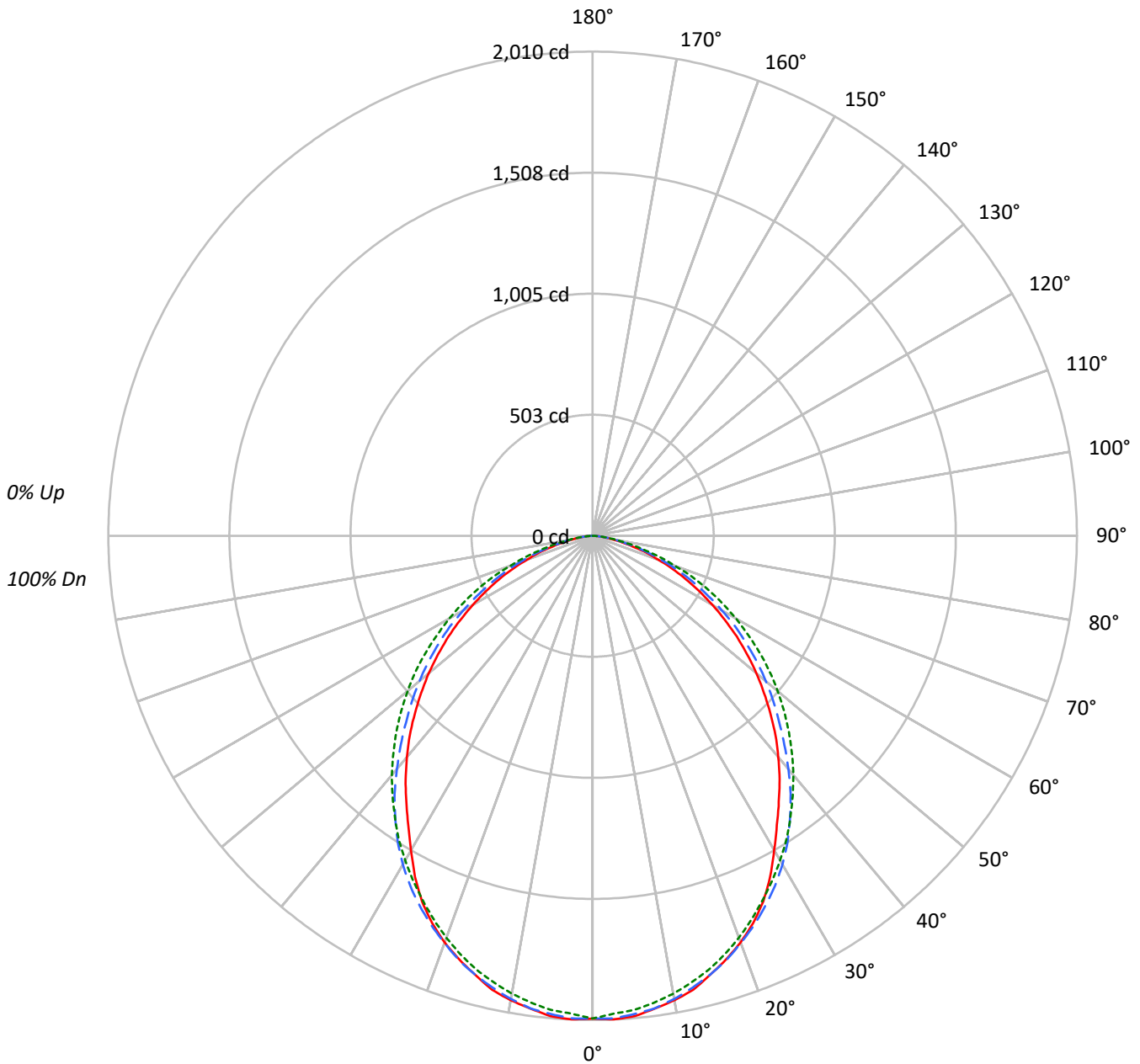
Lumens per Lamp: N/A
Luminaire Lumens: 4634.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P556115

CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-82-85-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	10786	10786	10786
5°	10815	10769	10678
10°	10700	10670	10549
15°	10510	10510	10390
20°	10287	10301	10168
25°	9948	10072	9912
30°	9368	9789	9670
35°	8852	9383	9399
40°	8422	8876	9109
45°	7940	8339	8767
50°	7433	7858	8393
55°	6855	7311	7939
60°	6174	6671	7384
65°	5452	5932	6716
70°	4543	5053	5706
75°	3570	4034	4467
80°	2554	2839	3149
85°	1661	1661	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	4.1
10°-20°	530.1	11.4
20°-30°	774.6	16.7
30°-40°	879.3	19.0
40°-50°	848.8	18.3
50°-60°	700.2	15.1
60°-70°	466.3	10.1
70°-80°	208.7	4.5
80°-90°	37.3	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°	1493.4	32.2
0°-40°	2372.7	51.2
0°-60°	3921.7	84.6
0°-90°	4634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2002	2001	1993	1982	1976	189
15°	1886	1891	1886	1878	1865	532
25°	1675	1688	1696	1684	1669	767
35°	1347	1366	1428	1436	1430	844
45°	1043	1061	1096	1146	1152	805
55°	731	743	779	822	846	652
65°	428	440	466	499	527	424
75°	172	181	194	203	215	188
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	2009.5	2010.2	2005.6	1993.3	1985.6
5°	2001.8	2001.0	1993.3	1982.5	1976.4
7.5°	1979.4	1981.0	1978.7	1963.3	1954.8
10°	1957.9	1958.7	1952.5	1940.2	1930.2
12.5°	1930.2	1929.4	1920.9	1914.8	1898.6
15°	1886.3	1890.9	1886.3	1877.8	1864.7
17.5°	1843.9	1843.9	1847.0	1832.4	1822.4
20°	1796.2	1798.5	1798.5	1787.0	1775.4
22.5°	1740.8	1747.7	1750.0	1737.7	1723.8
25°	1675.3	1688.4	1696.1	1683.8	1669.2
27.5°	1596.0	1616.0	1639.1	1629.9	1613.7
30°	1507.5	1536.7	1575.2	1567.5	1556.0
32.5°	1423.6	1452.8	1506.0	1502.9	1496.7
35°	1347.3	1365.8	1428.2	1435.9	1430.5
37.5°	1275.0	1291.9	1350.4	1368.1	1363.5
40°	1198.8	1217.2	1263.4	1295.0	1296.5
42.5°	1123.3	1141.0	1178.7	1224.2	1224.2
45°	1043.2	1060.9	1095.6	1145.6	1151.8
47.5°	964.7	983.2	1017.1	1067.1	1077.1
50°	887.7	904.6	938.5	987.0	1002.4
52.5°	807.6	826.1	859.2	903.9	926.2
55°	730.6	743.0	779.2	822.3	846.1
57.5°	650.6	662.1	702.9	739.9	764.5
60°	573.6	588.2	619.8	657.5	686.0
62.5°	499.7	515.1	542.0	575.1	607.5
65°	428.1	439.6	465.8	498.9	527.4
67.5°	358.8	368.8	395.0	418.1	448.1
70°	288.7	301.8	321.1	343.4	362.6
72.5°	232.5	237.9	254.1	270.2	290.3
75°	171.7	180.9	194.0	203.3	214.8
77.5°	123.2	128.6	136.3	144.0	154.8
80°	82.4	84.7	91.6	93.2	101.6
82.5°	50.0	51.6	53.1	53.9	57.0
85°	26.9	26.9	26.9	25.4	25.4
87.5°	15.4	15.4	13.1	10.8	7.7
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)