

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: P555502

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-97-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: P555502
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-LD4-3HI-35-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

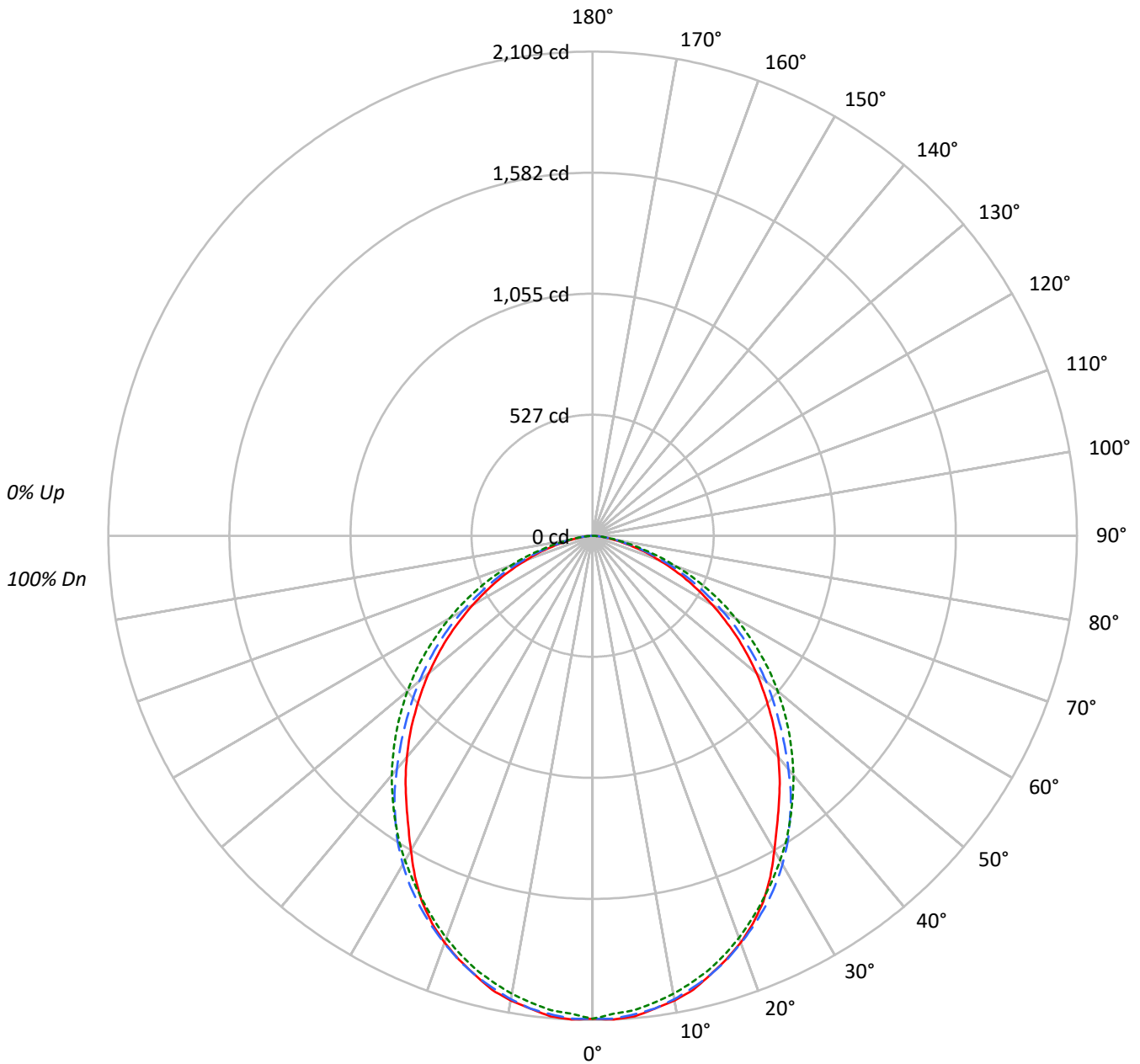
Lumens per Lamp: N/A
Luminaire Lumens: 4864.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P555502

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555502

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-97-EDD-90

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°	11321	11321	11321
5°	11351	11303	11208
10°	11231	11200	11072
15°	11032	11032	10906
20°	10798	10812	10673
25°	10443	10572	10404
30°	9833	10275	10150
35°	9292	9849	9865
40°	8840	9317	9561
45°	8334	8753	9202
50°	7802	8248	8810
55°	7196	7674	8333
60°	6481	7002	7750
65°	5722	6226	7050
70°	4768	5303	5989
75°	3747	4234	4689
80°	2681	2982	3307
85°	1748	1748	1649



TEST NUMBER: P555502

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	4.1
10°-20°	556.4	11.4
20°-30°	813.1	16.7
30°-40°	922.9	19.0
40°-50°	890.9	18.3
50°-60°	735.0	15.1
60°-70°	489.4	10.1
70°-80°	219.0	4.5
80°-90°	39.2	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°	1567.5	32.2
0°-40°	2490.5	51.2
0°-60°	4116.4	84.6
0°-90°	4864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2101	2100	2092	2081	2074	199
15°	1980	1985	1980	1971	1957	558
25°	1758	1772	1780	1767	1752	805
35°	1414	1434	1499	1507	1502	886
45°	1095	1114	1150	1202	1209	845
55°	767	780	818	863	888	685
65°	449	461	489	524	554	446
75°	180	190	204	213	226	197
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



TEST NUMBER: P555502

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-93-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.6	2103.6	2103.6	2103.6	2103.6
2.5°	2109.2	2110.0	2105.2	2092.2	2084.2
5°	2101.1	2100.3	2092.2	2080.9	2074.5
7.5°	2077.7	2079.3	2076.9	2060.7	2051.8
10°	2055.1	2055.9	2049.4	2036.5	2026.0
12.5°	2026.0	2025.2	2016.3	2009.8	1992.8
15°	1979.9	1984.8	1979.9	1971.0	1957.3
17.5°	1935.5	1935.5	1938.7	1923.3	1912.8
20°	1885.4	1887.8	1887.8	1875.7	1863.5
22.5°	1827.2	1834.4	1836.9	1823.9	1809.4
25°	1758.5	1772.2	1780.3	1767.4	1752.0
27.5°	1675.2	1696.3	1720.5	1710.8	1693.8
30°	1582.3	1613.0	1653.4	1645.3	1633.2
32.5°	1494.2	1524.9	1580.7	1577.5	1571.0
35°	1414.2	1433.6	1499.1	1507.2	1501.5
37.5°	1338.3	1356.0	1417.5	1436.0	1431.2
40°	1258.3	1277.6	1326.1	1359.3	1360.9
42.5°	1179.1	1197.6	1237.2	1284.9	1284.9
45°	1095.0	1113.6	1150.0	1202.5	1209.0
47.5°	1012.6	1032.0	1067.5	1120.1	1130.6
50°	931.8	949.5	985.1	1036.0	1052.2
52.5°	847.7	867.1	901.9	948.7	972.2
55°	766.9	779.8	817.8	863.1	888.1
57.5°	682.9	695.0	737.8	776.6	802.5
60°	602.1	617.4	650.5	690.1	720.0
62.5°	524.5	540.6	568.9	603.7	637.6
65°	449.3	461.4	488.9	523.7	553.6
67.5°	376.6	387.1	414.6	438.8	470.3
70°	303.0	316.8	337.0	360.4	380.6
72.5°	244.1	249.7	266.7	283.7	304.7
75°	180.2	189.9	203.6	213.3	225.5
77.5°	129.3	135.0	143.0	151.1	162.4
80°	86.5	88.9	96.2	97.8	106.7
82.5°	52.5	54.1	55.8	56.6	59.8
85°	28.3	28.3	28.3	26.7	26.7
87.5°	16.2	16.2	13.7	11.3	8.1
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)