

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: P555482

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-94-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: P555482
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-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

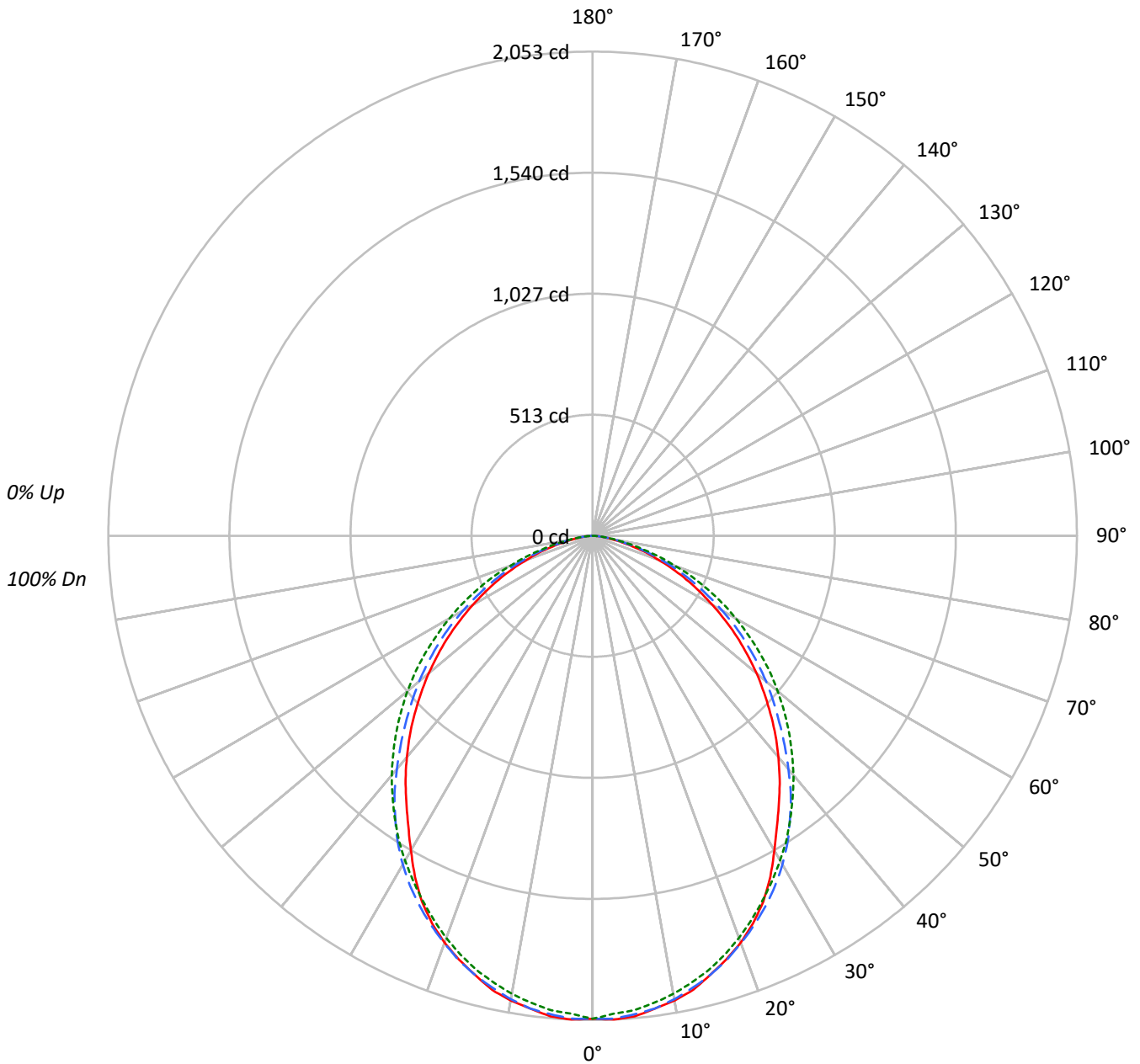
Lumens per Lamp: N/A
Luminaire Lumens: 4735.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555482

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555482

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-94-EDD-90

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°	11021	11021	11021
5°	11050	11004	10910
10°	10933	10903	10778
15°	10739	10739	10617
20°	10512	10525	10390
25°	10165	10292	10128
30°	9572	10003	9881
35°	9045	9588	9604
40°	8606	9070	9308
45°	8114	8521	8958
50°	7595	8030	8576
55°	7005	7470	8113
60°	6309	6817	7544
65°	5570	6062	6863
70°	4642	5163	5830
75°	3647	4121	4564
80°	2610	2901	3217
85°	1698	1698	1606



TEST NUMBER: P555482

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	4.1
10°-20°	541.6	11.4
20°-30°	791.5	16.7
30°-40°	898.5	19.0
40°-50°	867.3	18.3
50°-60°	715.5	15.1
60°-70°	476.5	10.1
70°-80°	213.2	4.5
80°-90°	38.1	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°	1526.0	32.2
0°-40°	2424.4	51.2
0°-60°	4007.2	84.6
0°-90°	4735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2045	2045	2037	2026	2019	194
15°	1927	1932	1927	1919	1905	543
25°	1712	1725	1733	1720	1706	784
35°	1377	1396	1459	1467	1462	863
45°	1066	1084	1120	1171	1177	822
55°	747	759	796	840	865	666
65°	437	449	476	510	539	434
75°	175	185	198	208	220	192
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



TEST NUMBER: P555482

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2053.3	2054.1	2049.3	2036.8	2028.9
5°	2045.4	2044.6	2036.8	2025.7	2019.4
7.5°	2022.6	2024.2	2021.8	2006.1	1997.4
10°	2000.6	2001.4	1995.1	1982.5	1972.2
12.5°	1972.2	1971.5	1962.8	1956.5	1940.0
15°	1927.4	1932.1	1927.4	1918.7	1905.4
17.5°	1884.1	1884.1	1887.3	1872.3	1862.1
20°	1835.4	1837.7	1837.7	1825.9	1814.1
22.5°	1778.7	1785.8	1788.2	1775.6	1761.4
25°	1711.8	1725.2	1733.1	1720.5	1705.6
27.5°	1630.8	1651.3	1674.9	1665.4	1648.9
30°	1540.3	1570.2	1609.6	1601.7	1589.9
32.5°	1454.6	1484.5	1538.8	1535.6	1529.3
35°	1376.7	1395.6	1459.3	1467.2	1461.7
37.5°	1302.8	1320.1	1379.9	1398.0	1393.2
40°	1224.9	1243.8	1291.0	1323.2	1324.8
42.5°	1147.8	1165.9	1204.4	1250.8	1250.8
45°	1066.0	1084.1	1119.5	1170.6	1176.9
47.5°	985.7	1004.6	1039.2	1090.4	1100.6
50°	907.1	924.4	959.0	1008.5	1024.3
52.5°	825.2	844.1	878.0	923.6	946.4
55°	746.6	759.2	796.1	840.2	864.6
57.5°	664.8	676.6	718.3	756.0	781.2
60°	586.1	601.0	633.3	671.8	700.9
62.5°	510.6	526.3	553.8	587.7	620.7
65°	437.4	449.2	476.0	509.8	538.9
67.5°	366.6	376.8	403.6	427.2	457.9
70°	295.0	308.4	328.1	350.9	370.5
72.5°	237.6	243.1	259.6	276.1	296.6
75°	175.4	184.9	198.2	207.7	219.5
77.5°	125.9	131.4	139.2	147.1	158.1
80°	84.2	86.5	93.6	95.2	103.8
82.5°	51.1	52.7	54.3	55.1	58.2
85°	27.5	27.5	27.5	26.0	26.0
87.5°	15.7	15.7	13.4	11.0	7.9
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)