

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: P555472

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-84-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: P555472
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

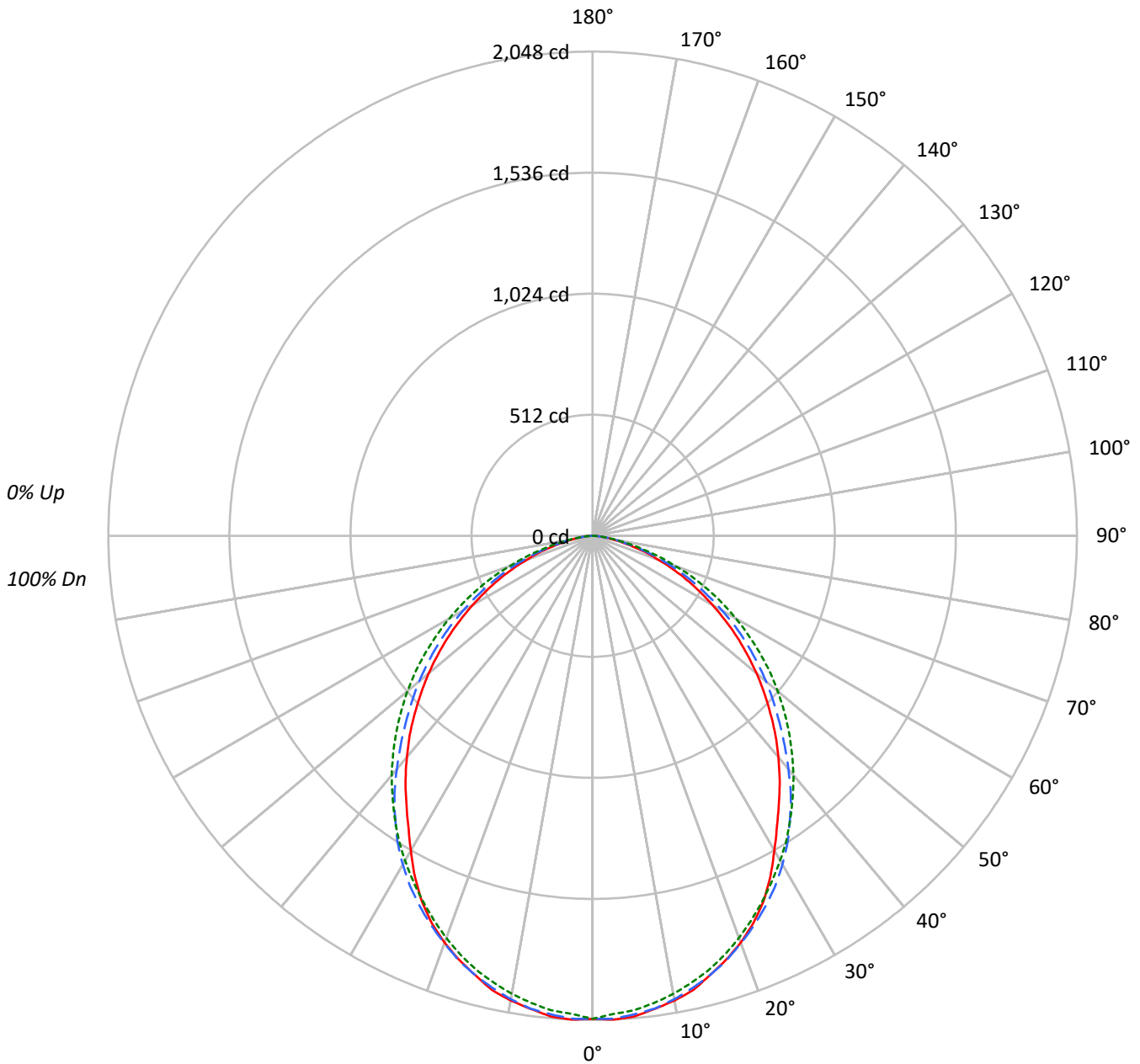
Lumens per Lamp: N/A
Luminaire Lumens: 4724.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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: P555472

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555472

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-84-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	10995	10995	10995
5°	11025	10978	10885
10°	10908	10878	10753
15°	10714	10714	10591
20°	10487	10501	10366
25°	10142	10268	10105
30°	9551	9979	9858
35°	9024	9565	9581
40°	8585	9049	9286
45°	8095	8501	8937
50°	7577	8011	8556
55°	6989	7453	8094
60°	6294	6801	7527
65°	5557	6046	6846
70°	4631	5150	5818
75°	3639	4113	4554
80°	2603	2895	3211
85°	1698	1698	1599



TEST NUMBER: P555472

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	4.1
10°-20°	540.4	11.4
20°-30°	789.7	16.7
30°-40°	896.4	19.0
40°-50°	865.3	18.3
50°-60°	713.8	15.1
60°-70°	475.3	10.1
70°-80°	212.7	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°	1522.4	32.2
0°-40°	2418.8	51.2
0°-60°	3997.9	84.6
0°-90°	4724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2041	2040	2032	2021	2015	193
15°	1923	1928	1923	1914	1901	542
25°	1708	1721	1729	1716	1702	782
35°	1374	1392	1456	1464	1458	861
45°	1064	1082	1117	1168	1174	821
55°	745	757	794	838	863	665
65°	436	448	475	509	538	433
75°	175	184	198	207	219	191
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



TEST NUMBER: P555472

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-82-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.0	2043.0	2043.0	2043.0	2043.0
2.5°	2048.5	2049.3	2044.6	2032.0	2024.2
5°	2040.7	2039.9	2032.0	2021.0	2014.8
7.5°	2017.9	2019.5	2017.1	2001.4	1992.8
10°	1995.9	1996.7	1990.4	1977.9	1967.7
12.5°	1967.7	1966.9	1958.2	1952.0	1935.5
15°	1922.9	1927.6	1922.9	1914.3	1900.9
17.5°	1879.8	1879.8	1882.9	1868.0	1857.8
20°	1831.1	1833.4	1833.4	1821.7	1809.9
22.5°	1774.6	1781.6	1784.0	1771.4	1757.3
25°	1707.9	1721.2	1729.1	1716.5	1701.6
27.5°	1627.0	1647.4	1671.0	1661.6	1645.1
30°	1536.8	1566.6	1605.8	1598.0	1586.2
32.5°	1451.2	1481.0	1535.2	1532.1	1525.8
35°	1373.5	1392.4	1455.9	1463.8	1458.3
37.5°	1299.7	1317.0	1376.7	1394.7	1390.0
40°	1222.0	1240.9	1288.0	1320.1	1321.7
42.5°	1145.1	1163.2	1201.6	1247.9	1247.9
45°	1063.5	1081.5	1116.9	1167.9	1174.2
47.5°	983.4	1002.3	1036.8	1087.8	1098.0
50°	905.0	922.2	956.8	1006.2	1021.9
52.5°	823.3	842.2	875.9	921.4	944.2
55°	744.8	757.4	794.3	838.2	862.6
57.5°	663.2	675.0	716.6	754.3	779.4
60°	584.7	599.6	631.8	670.3	699.3
62.5°	509.4	525.1	552.5	586.3	619.3
65°	436.4	448.2	474.8	508.6	537.6
67.5°	365.7	376.0	402.6	426.2	456.8
70°	294.3	307.7	327.3	350.1	369.7
72.5°	237.0	242.5	259.0	275.5	295.9
75°	175.0	184.4	197.8	207.2	219.0
77.5°	125.6	131.1	138.9	146.8	157.8
80°	84.0	86.3	93.4	95.0	103.6
82.5°	51.0	52.6	54.2	54.9	58.1
85°	27.5	27.5	27.5	25.9	25.9
87.5°	15.7	15.7	13.3	11.0	7.8
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)