

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: P555921

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-84-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: P555921
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-30-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

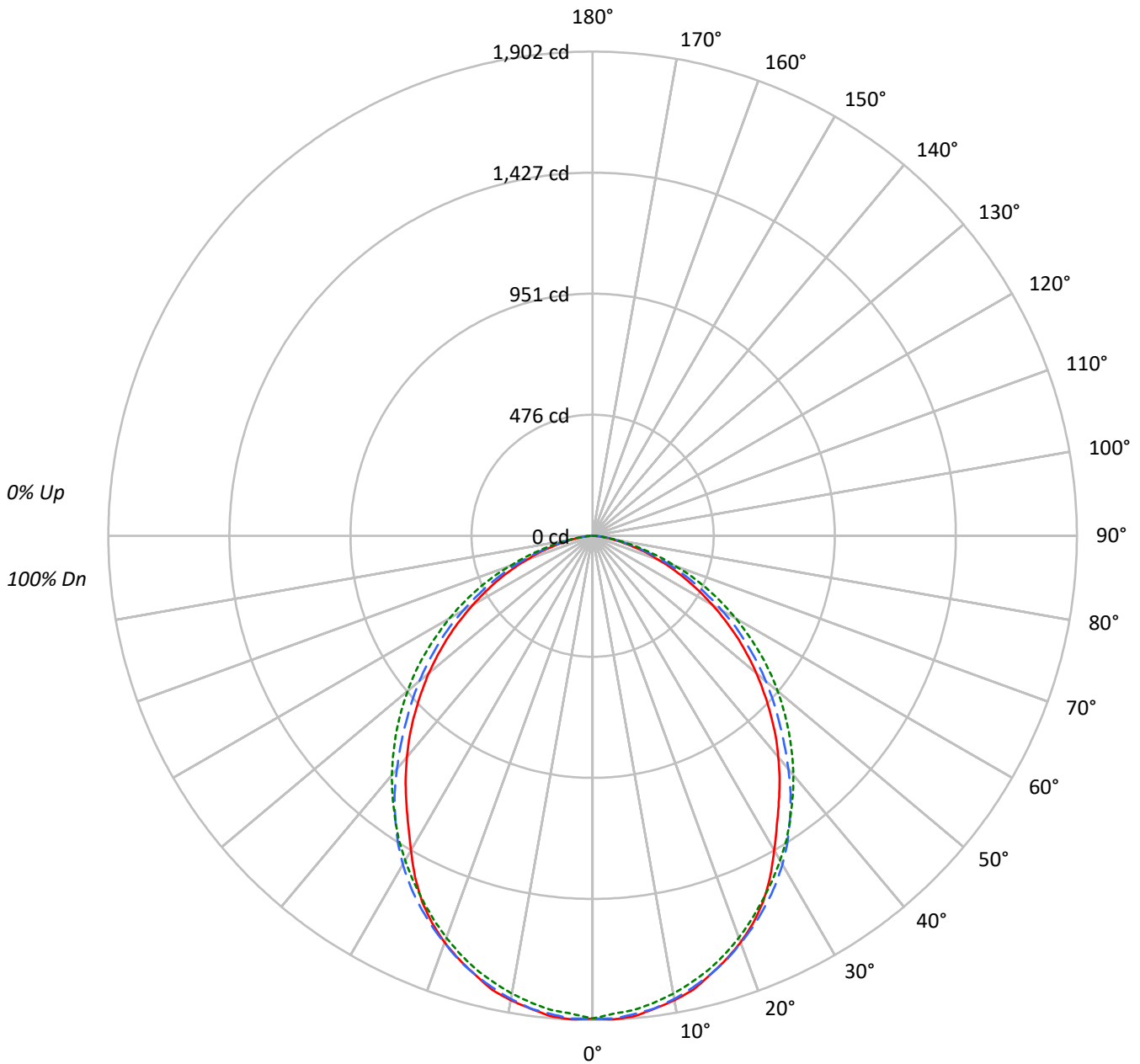
Lumens per Lamp: N/A
Luminaire Lumens: 4385.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555921

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555921

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD

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	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°	10206	10206	10206
5°	10233	10190	10104
10°	10125	10097	9982
15°	9945	9945	9831
20°	9735	9747	9622
25°	9414	9531	9380
30°	8865	9263	9150
35°	8377	8879	8893
40°	7969	8399	8620
45°	7514	7891	8295
50°	7033	7436	7942
55°	6488	6918	7513
60°	5843	6313	6987
65°	5159	5613	6356
70°	4299	4781	5399
75°	3379	3818	4227
80°	2417	2687	2982
85°	1575	1575	1482



TEST NUMBER: P555921

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.1
10°-20°	501.6	11.4
20°-30°	733.0	16.7
30°-40°	832.0	19.0
40°-50°	803.2	18.3
50°-60°	662.6	15.1
60°-70°	441.2	10.1
70°-80°	197.4	4.5
80°-90°	35.3	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°	1413.2	32.2
0°-40°	2245.2	51.2
0°-60°	3711.0	84.6
0°-90°	4385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1894	1894	1886	1876	1870	179
15°	1785	1789	1785	1777	1764	503
25°	1585	1598	1605	1593	1580	726
35°	1275	1292	1351	1359	1354	799
45°	987	1004	1037	1084	1090	762
55°	691	703	737	778	801	617
65°	405	416	441	472	499	402
75°	162	171	184	192	203	178
85°	26	26	26	24	24	34
90°	0	0	0	0	0	



TEST NUMBER: P555921

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896.4	1896.4	1896.4	1896.4	1896.4
2.5°	1901.5	1902.2	1897.9	1886.2	1878.9
5°	1894.2	1893.5	1886.2	1876.0	1870.2
7.5°	1873.1	1874.5	1872.4	1857.8	1849.8
10°	1852.7	1853.4	1847.6	1835.9	1826.5
12.5°	1826.5	1825.7	1817.7	1811.9	1796.6
15°	1784.9	1789.3	1784.9	1776.9	1764.5
17.5°	1744.9	1744.9	1747.8	1733.9	1724.5
20°	1699.7	1701.9	1701.9	1690.9	1680.0
22.5°	1647.2	1653.8	1656.0	1644.3	1631.2
25°	1585.3	1597.7	1605.0	1593.3	1579.5
27.5°	1510.3	1529.2	1551.1	1542.3	1527.0
30°	1426.5	1454.2	1490.6	1483.3	1472.4
32.5°	1347.1	1374.8	1425.0	1422.1	1416.3
35°	1275.0	1292.4	1351.4	1358.7	1353.6
37.5°	1206.5	1222.5	1277.9	1294.6	1290.3
40°	1134.3	1151.8	1195.5	1225.4	1226.9
42.5°	1062.9	1079.7	1115.4	1158.4	1158.4
45°	987.2	1003.9	1036.7	1084.1	1089.9
47.5°	912.9	930.4	962.4	1009.8	1019.2
50°	840.0	856.0	888.1	934.0	948.6
52.5°	764.2	781.7	813.1	855.3	876.4
55°	691.4	703.0	737.3	778.1	800.7
57.5°	615.6	626.5	665.2	700.1	723.4
60°	542.8	556.6	586.5	622.2	649.1
62.5°	472.8	487.4	512.9	544.2	574.8
65°	405.1	416.0	440.8	472.1	499.1
67.5°	339.5	349.0	373.7	395.6	424.0
70°	273.2	285.6	303.8	324.9	343.1
72.5°	220.0	225.1	240.4	255.7	274.7
75°	162.5	171.2	183.6	192.3	203.3
77.5°	116.6	121.7	129.0	136.2	146.4
80°	78.0	80.1	86.7	88.2	96.2
82.5°	47.4	48.8	50.3	51.0	53.9
85°	25.5	25.5	25.5	24.0	24.0
87.5°	14.6	14.6	12.4	10.2	7.3
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)