

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: P555913

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-88-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: P555913
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-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

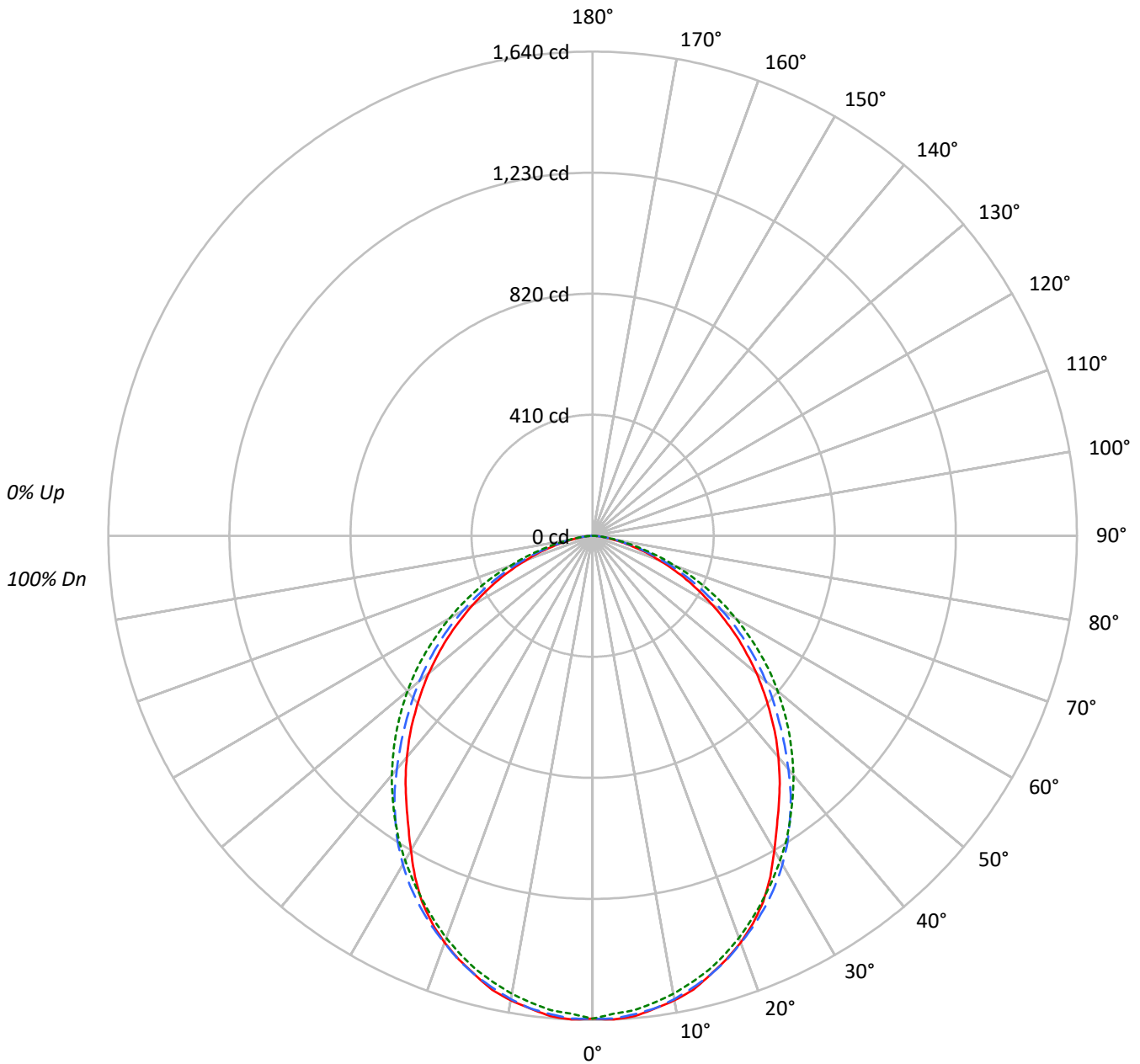
Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555913

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-81-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555913

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-81-88-EDD

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°	8803	8803	8803
5°	8826	8789	8714
10°	8732	8708	8609
15°	8578	8578	8480
20°	8396	8407	8299
25°	8119	8220	8090
30°	7646	7989	7892
35°	7225	7658	7671
40°	6874	7244	7435
45°	6480	6806	7155
50°	6066	6414	6850
55°	5595	5967	6480
60°	5039	5444	6027
65°	4450	4842	5481
70°	3707	4123	4658
75°	2913	3292	3645
80°	2083	2318	2569
85°	1359	1359	1278



TEST NUMBER: P555913

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-81-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	4.1
10°-20°	432.6	11.4
20°-30°	632.2	16.7
30°-40°	717.6	19.0
40°-50°	692.8	18.3
50°-60°	571.5	15.1
60°-70°	380.6	10.1
70°-80°	170.3	4.5
80°-90°	30.5	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°	1218.8	32.2
0°-40°	1936.4	51.2
0°-60°	3200.7	84.6
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1634	1633	1627	1618	1613	155
15°	1540	1543	1540	1533	1522	434
25°	1367	1378	1384	1374	1362	626
35°	1100	1115	1166	1172	1168	689
45°	851	866	894	935	940	657
55°	596	606	636	671	691	532
65°	349	359	380	407	430	346
75°	140	148	158	166	175	153
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



TEST NUMBER: P555913

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-81-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1635.6	1635.6	1635.6	1635.6	1635.6
2.5°	1640.0	1640.6	1636.9	1626.8	1620.5
5°	1633.7	1633.1	1626.8	1618.0	1613.0
7.5°	1615.5	1616.8	1614.9	1602.3	1595.4
10°	1597.9	1598.5	1593.5	1583.5	1575.3
12.5°	1575.3	1574.7	1567.8	1562.7	1549.5
15°	1539.5	1543.2	1539.5	1532.6	1521.9
17.5°	1504.9	1504.9	1507.4	1495.5	1487.3
20°	1466.0	1467.8	1467.8	1458.4	1449.0
22.5°	1420.7	1426.4	1428.3	1418.2	1406.9
25°	1367.3	1378.0	1384.3	1374.2	1362.3
27.5°	1302.6	1318.9	1337.8	1330.2	1317.0
30°	1230.3	1254.2	1285.6	1279.3	1269.9
32.5°	1161.8	1185.7	1229.1	1226.6	1221.5
35°	1099.6	1114.7	1165.6	1171.9	1167.5
37.5°	1040.6	1054.4	1102.1	1116.6	1112.8
40°	978.4	993.4	1031.1	1056.9	1058.2
42.5°	916.8	931.2	962.0	999.1	999.1
45°	851.4	865.9	894.2	935.0	940.0
47.5°	787.3	802.4	830.1	870.9	879.1
50°	724.5	738.3	766.0	805.6	818.1
52.5°	659.1	674.2	701.2	737.7	755.9
55°	596.3	606.4	635.9	671.1	690.6
57.5°	531.0	540.4	573.7	603.9	624.0
60°	468.1	480.1	505.8	536.6	559.9
62.5°	407.8	420.4	442.4	469.4	495.8
65°	349.4	358.8	380.2	407.2	430.4
67.5°	292.8	301.0	322.3	341.2	365.7
70°	235.6	246.3	262.0	280.2	296.0
72.5°	189.8	194.2	207.4	220.6	236.9
75°	140.1	147.7	158.3	165.9	175.3
77.5°	100.5	104.9	111.2	117.5	126.3
80°	67.2	69.1	74.8	76.0	82.9
82.5°	40.8	42.1	43.4	44.0	46.5
85°	22.0	22.0	22.0	20.7	20.7
87.5°	12.6	12.6	10.7	8.8	6.3
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)