

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: P555920

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-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: P555920
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-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

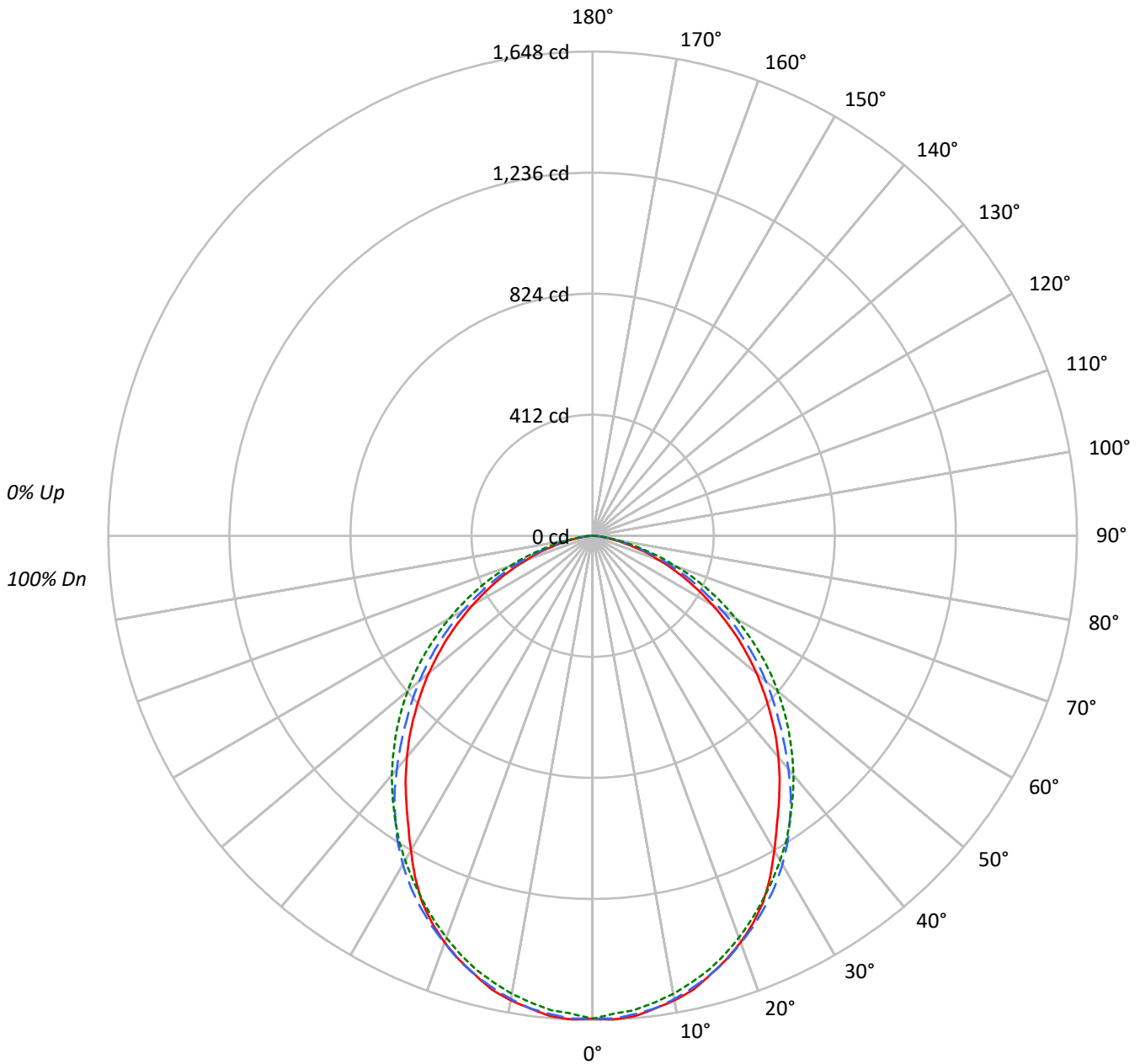
Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555920

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555920

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-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°	8845	8845	8845
5°	8868	8831	8756
10°	8774	8750	8650
15°	8618	8618	8520
20°	8436	8447	8338
25°	8158	8260	8128
30°	7682	8027	7930
35°	7259	7695	7707
40°	6906	7279	7470
45°	6511	6838	7189
50°	6095	6444	6882
55°	5622	5995	6511
60°	5063	5470	6055
65°	4470	4865	5508
70°	3726	4143	4680
75°	2928	3308	3662
80°	2095	2328	2582
85°	1365	1365	1284



TEST NUMBER: P555920

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	4.1
10°-20°	434.7	11.4
20°-30°	635.2	16.7
30°-40°	721.0	19.0
40°-50°	696.0	18.3
50°-60°	574.2	15.1
60°-70°	382.4	10.1
70°-80°	171.1	4.5
80°-90°	30.6	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°	1224.6	32.2
0°-40°	1945.7	51.2
0°-60°	3215.9	84.6
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1642	1641	1635	1626	1621	155
15°	1547	1551	1547	1540	1529	436
25°	1374	1384	1391	1381	1369	629
35°	1105	1120	1171	1178	1173	692
45°	856	870	898	939	944	660
55°	599	609	639	674	694	535
65°	351	360	382	409	432	348
75°	141	148	159	167	176	154
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



TEST NUMBER: P555920

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-82-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1647.8	1648.5	1644.7	1634.6	1628.2
5°	1641.5	1640.9	1634.6	1625.7	1620.7
7.5°	1623.2	1624.5	1622.6	1609.9	1603.0
10°	1605.5	1606.2	1601.1	1591.0	1582.8
12.5°	1582.8	1582.2	1575.2	1570.2	1556.9
15°	1546.8	1550.6	1546.8	1539.9	1529.1
17.5°	1512.1	1512.1	1514.6	1502.6	1494.4
20°	1472.9	1474.8	1474.8	1465.4	1455.9
22.5°	1427.5	1433.2	1435.1	1425.0	1413.6
25°	1373.8	1384.5	1390.9	1380.8	1368.8
27.5°	1308.8	1325.2	1344.1	1336.6	1323.3
30°	1236.2	1260.2	1291.7	1285.4	1276.0
32.5°	1167.4	1191.4	1234.9	1232.4	1227.3
35°	1104.9	1120.0	1171.2	1177.5	1173.0
37.5°	1045.5	1059.4	1107.4	1121.9	1118.1
40°	983.0	998.2	1036.0	1061.9	1063.2
42.5°	921.1	935.7	966.6	1003.8	1003.8
45°	855.5	870.0	898.4	939.4	944.5
47.5°	791.1	806.2	834.0	875.0	883.3
50°	727.9	741.8	769.6	809.4	822.0
52.5°	662.3	677.4	704.6	741.2	759.5
55°	599.2	609.3	638.9	674.3	693.9
57.5°	533.5	543.0	576.4	606.7	626.9
60°	470.4	482.4	508.2	539.2	562.5
62.5°	409.7	422.4	444.5	471.6	498.1
65°	351.0	360.5	382.0	409.1	432.5
67.5°	294.2	302.4	323.9	342.8	367.4
70°	236.8	247.5	263.3	281.6	297.4
72.5°	190.7	195.1	208.3	221.6	238.0
75°	140.8	148.4	159.1	166.7	176.1
77.5°	101.0	105.4	111.7	118.1	126.9
80°	67.6	69.4	75.1	76.4	83.3
82.5°	41.0	42.3	43.6	44.2	46.7
85°	22.1	22.1	22.1	20.8	20.8
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)