

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: P555522

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-85-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: P555522
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-40-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

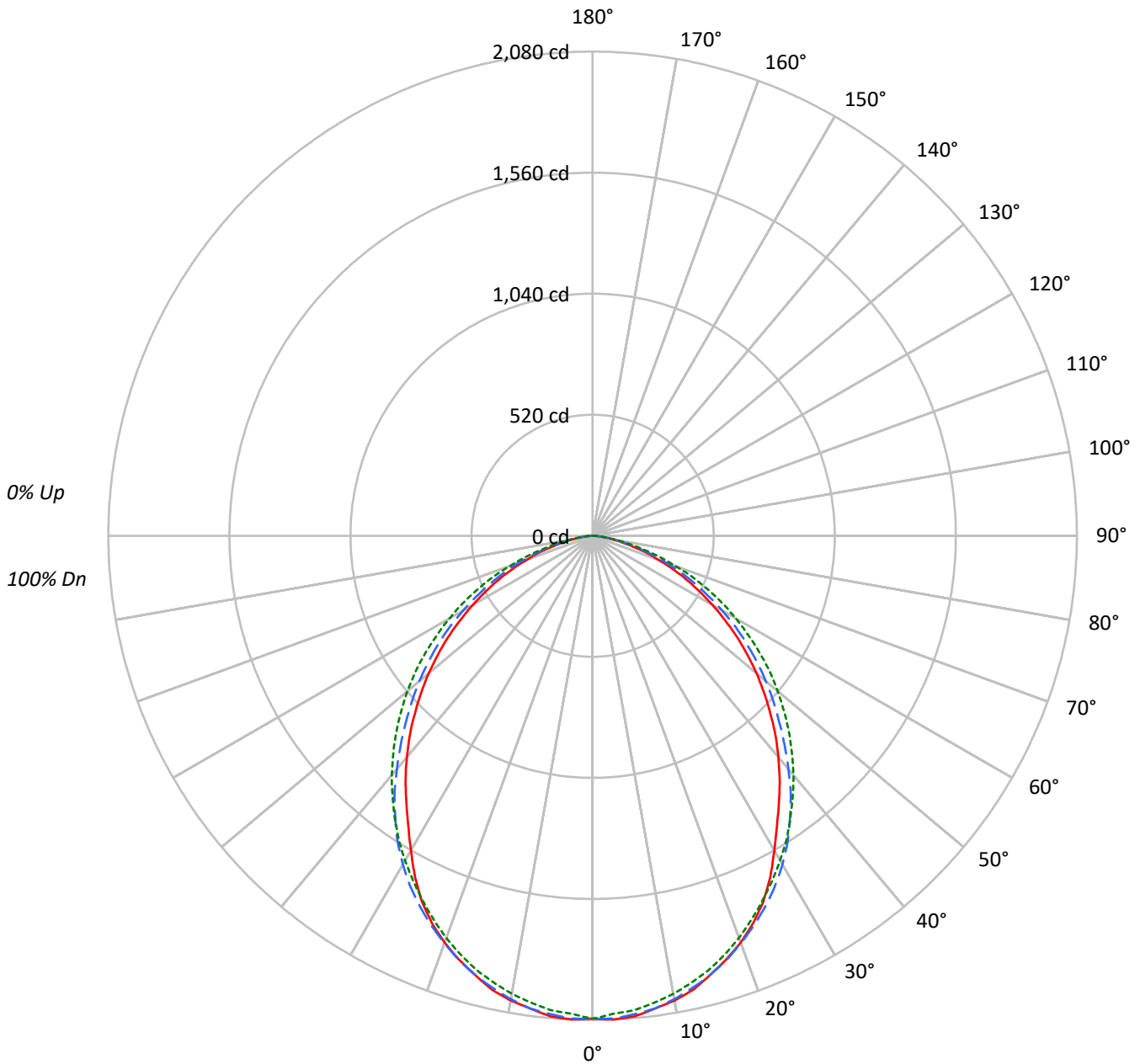
Lumens per Lamp: N/A
Luminaire Lumens: 4797.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P555522

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-81-85-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555522

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-81-85-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°	11165	11165	11165
5°	11195	11148	11053
10°	11076	11046	10920
15°	10880	10880	10755
20°	10649	10663	10526
25°	10299	10427	10261
30°	9698	10134	10010
35°	9163	9713	9729
40°	8718	9189	9429
45°	8219	8632	9075
50°	7694	8134	8688
55°	7096	7568	8219
60°	6392	6906	7643
65°	5643	6141	6952
70°	4703	5229	5907
75°	3695	4175	4625
80°	2644	2938	3261
85°	1723	1723	1624



TEST NUMBER: P555522

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-81-85-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	4.1
10°-20°	548.7	11.4
20°-30°	801.9	16.7
30°-40°	910.2	19.0
40°-50°	878.7	18.3
50°-60°	724.8	15.1
60°-70°	482.7	10.1
70°-80°	216.0	4.5
80°-90°	38.6	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°	1545.9	32.2
0°-40°	2456.2	51.2
0°-60°	4059.7	84.6
0°-90°	4797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2075	2075	2075	2075	2075	
5°	2072	2071	2063	2052	2046	196
15°	1953	1957	1953	1944	1930	550
25°	1734	1748	1756	1743	1728	794
35°	1395	1414	1478	1486	1481	874
45°	1080	1098	1134	1186	1192	833
55°	756	769	807	851	876	675
65°	443	455	482	516	546	439
75°	178	187	201	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



TEST NUMBER: P555522

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-81-85-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2074.6	2074.6	2074.6	2074.6	2074.6
2.5°	2080.2	2081.0	2076.2	2063.4	2055.5
5°	2072.2	2071.4	2063.4	2052.3	2045.9
7.5°	2049.1	2050.7	2048.3	2032.3	2023.6
10°	2026.8	2027.6	2021.2	2008.4	1998.1
12.5°	1998.1	1997.3	1988.5	1982.1	1965.4
15°	1952.6	1957.4	1952.6	1943.9	1930.3
17.5°	1908.8	1908.8	1912.0	1896.8	1886.5
20°	1859.4	1861.8	1861.8	1849.8	1837.9
22.5°	1802.0	1809.2	1811.6	1798.8	1784.5
25°	1734.3	1747.8	1755.8	1743.0	1727.9
27.5°	1652.2	1672.9	1696.8	1687.2	1670.5
30°	1560.5	1590.8	1630.7	1622.7	1610.7
32.5°	1473.6	1503.9	1558.9	1555.7	1549.4
35°	1394.7	1413.9	1478.4	1486.4	1480.8
37.5°	1319.8	1337.4	1397.9	1416.3	1411.5
40°	1240.9	1260.0	1307.9	1340.5	1342.1
42.5°	1162.8	1181.1	1220.2	1267.2	1267.2
45°	1079.9	1098.3	1134.1	1185.9	1192.3
47.5°	998.6	1017.8	1052.8	1104.6	1115.0
50°	918.9	936.5	971.5	1021.7	1037.7
52.5°	836.0	855.2	889.4	935.7	958.8
55°	756.3	769.1	806.6	851.2	875.9
57.5°	673.5	685.4	727.7	765.9	791.4
60°	593.8	608.9	641.6	680.6	710.1
62.5°	517.2	533.2	561.1	595.4	628.8
65°	443.1	455.1	482.2	516.5	545.9
67.5°	371.4	381.8	408.9	432.8	463.9
70°	298.9	312.4	332.3	355.5	375.4
72.5°	240.7	246.3	263.0	279.7	300.5
75°	177.7	187.3	200.8	210.4	222.4
77.5°	127.5	133.1	141.1	149.0	160.2
80°	85.3	87.7	94.8	96.4	105.2
82.5°	51.8	53.4	55.0	55.8	59.0
85°	27.9	27.9	27.9	26.3	26.3
87.5°	15.9	15.9	13.5	11.2	8.0
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)