

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: P555419

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-94-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: P555419
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-30-UNV-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

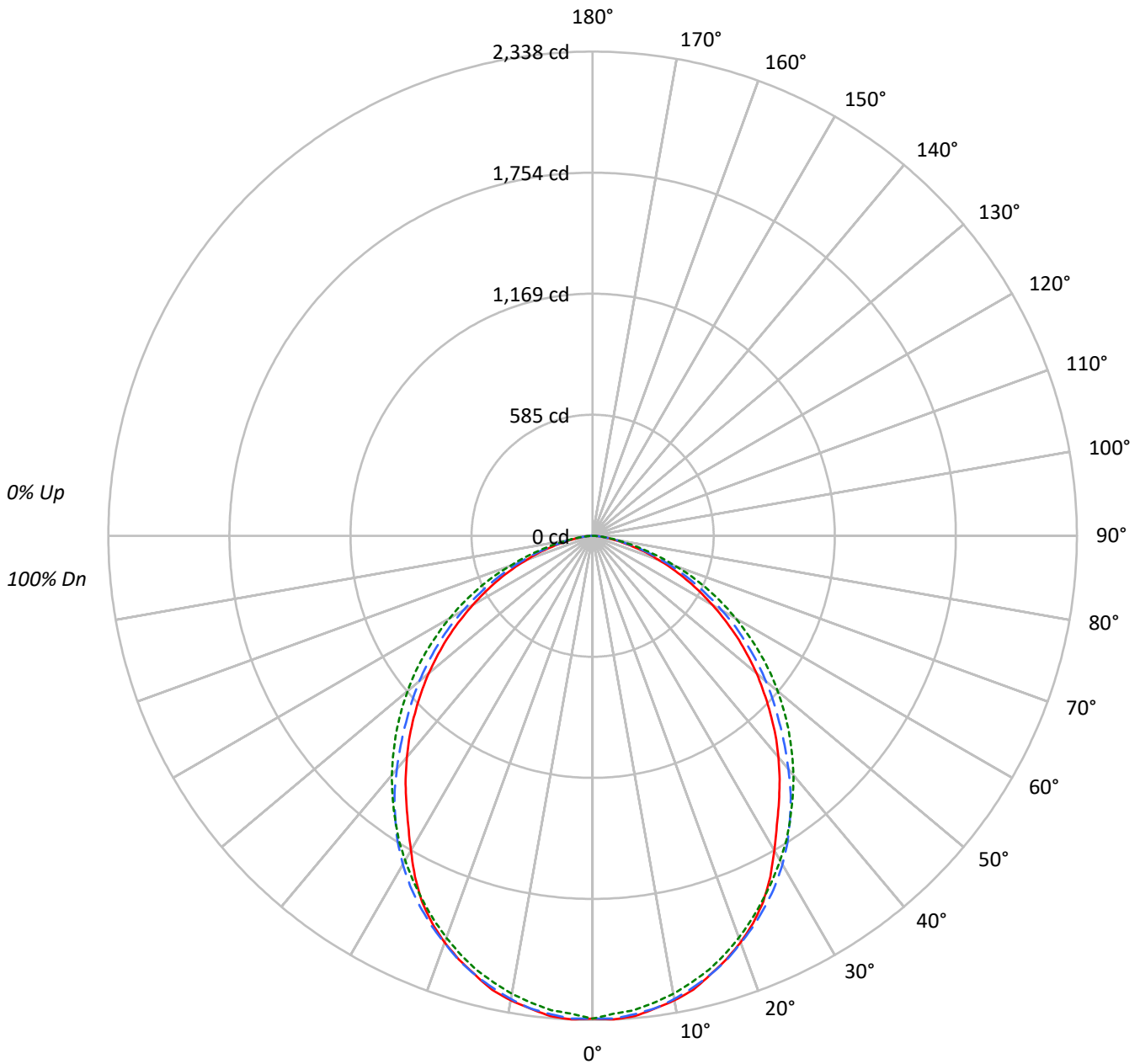
Lumens per Lamp: N/A
Luminaire Lumens: 5391.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P555419

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-82-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555419

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-82-94-EDD

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°	12548	12548	12548
5°	12581	12528	12421
10°	12448	12414	12272
15°	12227	12227	12087
20°	11968	11983	11829
25°	11574	11718	11531
30°	10899	11389	11250
35°	10298	10916	10934
40°	9798	10326	10597
45°	9238	9701	10198
50°	8647	9141	9764
55°	7976	8505	9237
60°	7183	7761	8591
65°	6342	6901	7813
70°	5286	5877	6639
75°	4153	4693	5196
80°	2969	3304	3663
85°	1933	1933	1828



TEST NUMBER: P555419

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-82-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	4.1
10°-20°	616.7	11.4
20°-30°	901.2	16.7
30°-40°	1022.9	19.0
40°-50°	987.5	18.3
50°-60°	814.6	15.1
60°-70°	542.5	10.1
70°-80°	242.7	4.5
80°-90°	43.4	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°	1737.4	32.2
0°-40°	2760.3	51.2
0°-60°	4562.4	84.6
0°-90°	5391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2329	2328	2319	2306	2299	220
15°	2194	2200	2194	2185	2169	619
25°	1949	1964	1973	1959	1942	893
35°	1567	1589	1662	1670	1664	982
45°	1214	1234	1275	1333	1340	936
55°	850	864	906	957	984	759
65°	498	511	542	580	614	494
75°	200	210	226	236	250	218
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



TEST NUMBER: P555419

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-82-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2331.5	2331.5	2331.5	2331.5	2331.5
2.5°	2337.7	2338.6	2333.3	2318.9	2310.0
5°	2328.8	2327.9	2318.9	2306.4	2299.2
7.5°	2302.8	2304.6	2301.9	2284.0	2274.1
10°	2277.7	2278.6	2271.5	2257.1	2245.5
12.5°	2245.5	2244.6	2234.7	2227.6	2208.8
15°	2194.4	2199.8	2194.4	2184.6	2169.3
17.5°	2145.2	2145.2	2148.7	2131.7	2120.1
20°	2089.6	2092.3	2092.3	2078.9	2065.4
22.5°	2025.1	2033.2	2035.9	2021.6	2005.4
25°	1949.0	1964.2	1973.2	1958.9	1941.8
27.5°	1856.8	1880.0	1906.9	1896.2	1877.4
30°	1753.8	1787.8	1832.6	1823.6	1810.2
32.5°	1656.1	1690.2	1752.0	1748.4	1741.2
35°	1567.4	1588.9	1661.5	1670.5	1664.2
37.5°	1483.3	1503.0	1571.0	1591.6	1586.3
40°	1394.6	1416.1	1469.8	1506.5	1508.3
42.5°	1306.8	1327.4	1371.3	1424.1	1424.1
45°	1213.7	1234.3	1274.6	1332.8	1339.9
47.5°	1122.3	1143.8	1183.2	1241.4	1253.1
50°	1032.7	1052.4	1091.8	1148.3	1166.2
52.5°	939.6	961.1	999.6	1051.5	1077.5
55°	850.0	864.3	906.4	956.6	984.4
57.5°	756.9	770.3	817.8	860.8	889.4
60°	667.3	684.3	721.0	764.9	798.1
62.5°	581.3	599.2	630.6	669.1	706.7
65°	498.0	511.4	541.9	580.4	613.5
67.5°	417.4	429.0	459.5	486.4	521.3
70°	335.9	351.1	373.5	399.5	421.9
72.5°	270.5	276.8	295.6	314.4	337.7
75°	199.7	210.5	225.7	236.5	249.9
77.5°	143.3	149.6	158.5	167.5	180.0
80°	95.8	98.5	106.6	108.4	118.2
82.5°	58.2	60.0	61.8	62.7	66.3
85°	31.3	31.3	31.3	29.6	29.6
87.5°	17.9	17.9	15.2	12.5	9.0
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)