

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: P555605

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-86-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: P555605
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-50-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

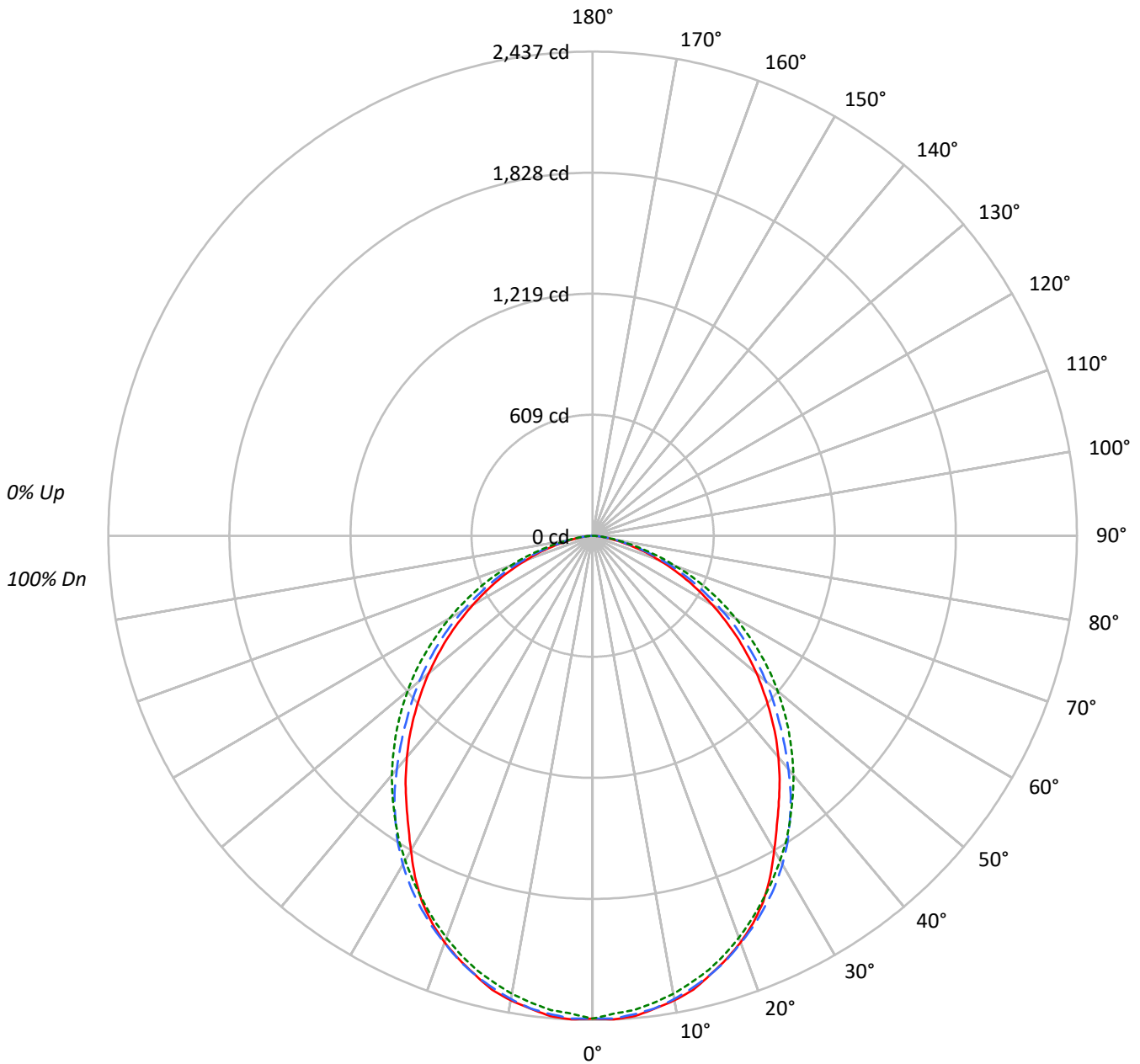
Lumens per Lamp: N/A
Luminaire Lumens: 5619.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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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°	13079	13079	13079
5°	13114	13058	12947
10°	12974	12938	12791
15°	12744	12744	12598
20°	12474	12490	12330
25°	12063	12213	12019
30°	11360	11870	11725
35°	10734	11378	11397
40°	10212	10763	11045
45°	9628	10112	10630
50°	9013	9528	10177
55°	8313	8865	9627
60°	7486	8089	8953
65°	6611	7193	8144
70°	5509	6126	6919
75°	4329	4893	5417
80°	3096	3443	3818
85°	2019	2019	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	4.1
10°-20°	642.8	11.4
20°-30°	939.3	16.7
30°-40°	1066.2	19.0
40°-50°	1029.2	18.3
50°-60°	849.1	15.1
60°-70°	565.4	10.1
70°-80°	253.0	4.5
80°-90°	45.3	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°	1810.8	32.2
0°-40°	2877.0	51.2
0°-60°	4755.3	84.6
0°-90°	5619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2427	2426	2417	2404	2396	230
15°	2287	2293	2287	2277	2261	645
25°	2031	2047	2057	2042	2024	930
35°	1634	1656	1732	1741	1735	1024
45°	1265	1286	1328	1389	1397	976
55°	886	901	945	997	1026	791
65°	519	533	565	605	640	515
75°	208	219	235	246	260	228
85°	33	33	33	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.1	2430.1	2430.1	2430.1	2430.1
2.5°	2436.6	2437.5	2431.9	2417.0	2407.7
5°	2427.3	2426.3	2417.0	2403.9	2396.5
7.5°	2400.2	2402.1	2399.3	2380.6	2370.3
10°	2374.1	2375.0	2367.5	2352.6	2340.5
12.5°	2340.5	2339.5	2329.2	2321.8	2302.2
15°	2287.2	2292.8	2287.2	2277.0	2261.1
17.5°	2235.9	2235.9	2239.6	2221.9	2209.8
20°	2178.0	2180.8	2180.8	2166.8	2152.8
22.5°	2110.8	2119.2	2122.0	2107.1	2090.3
25°	2031.4	2047.3	2056.6	2041.7	2024.0
27.5°	1935.3	1959.6	1987.6	1976.4	1956.8
30°	1827.9	1863.4	1910.1	1900.7	1886.7
32.5°	1726.2	1761.6	1826.1	1822.3	1814.9
35°	1633.7	1656.1	1731.8	1741.1	1734.6
37.5°	1546.0	1566.5	1637.5	1658.9	1653.3
40°	1453.6	1476.0	1532.0	1570.3	1572.1
42.5°	1362.1	1383.5	1429.3	1484.4	1484.4
45°	1265.0	1286.5	1328.5	1389.1	1396.6
47.5°	1169.8	1192.2	1233.2	1293.9	1306.1
50°	1076.4	1096.9	1138.0	1196.8	1215.5
52.5°	979.3	1001.7	1041.9	1096.0	1123.1
55°	886.0	900.9	944.8	997.0	1026.0
57.5°	788.9	802.9	852.3	897.2	927.0
60°	695.5	713.2	751.5	797.3	831.8
62.5°	605.9	624.6	657.2	697.4	736.6
65°	519.1	533.1	564.8	605.0	639.5
67.5°	435.0	447.2	478.9	506.9	543.3
70°	350.1	366.0	389.3	416.4	439.7
72.5°	281.9	288.5	308.1	327.7	352.0
75°	208.2	219.4	235.3	246.5	260.5
77.5°	149.4	155.9	165.2	174.6	187.6
80°	99.9	102.7	111.1	113.0	123.2
82.5°	60.7	62.5	64.4	65.3	69.1
85°	32.7	32.7	32.7	30.8	30.8
87.5°	18.7	18.7	15.9	13.1	9.3
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)