

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: P555523

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-85-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: P555523
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
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

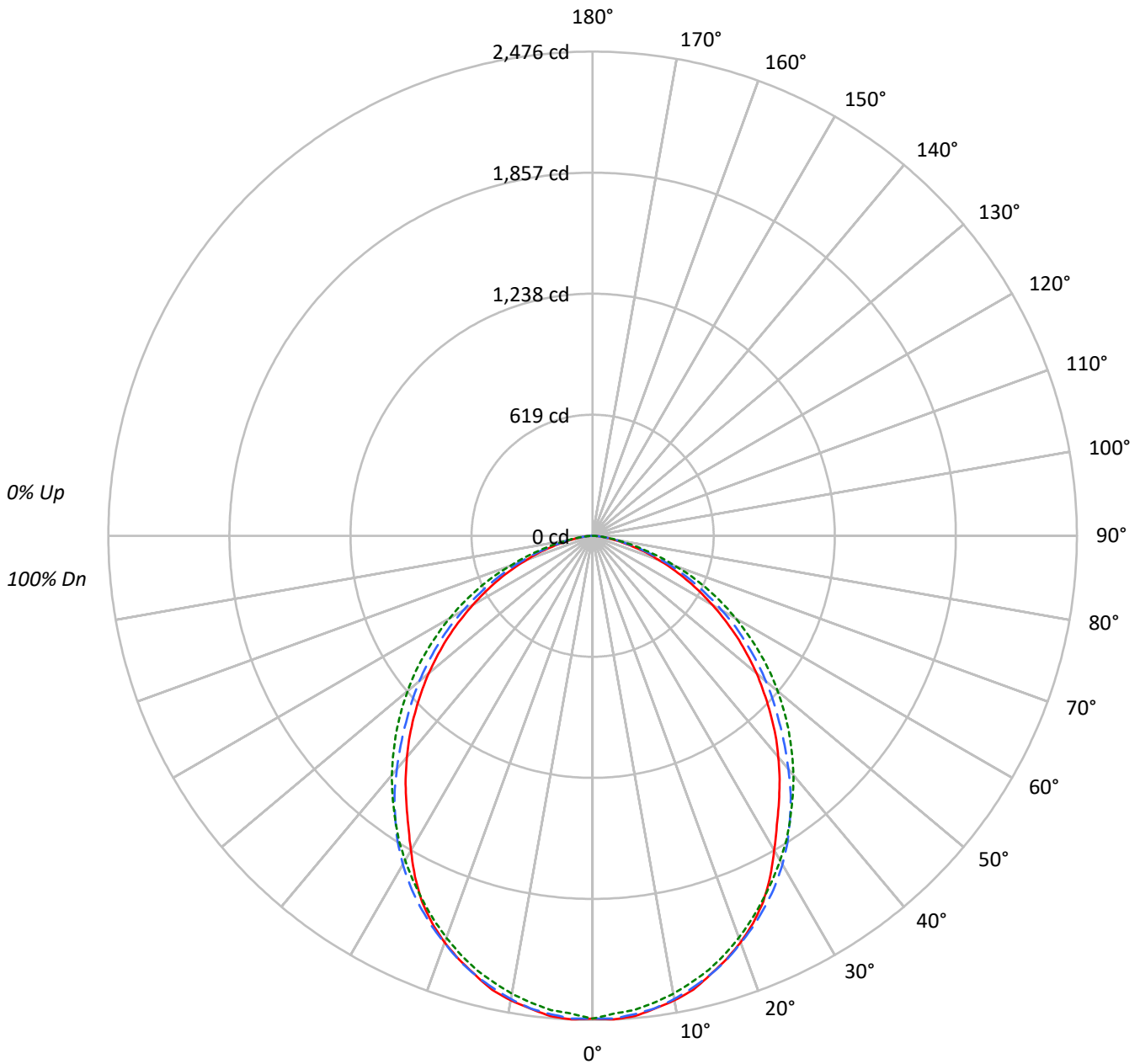
Lumens per Lamp: N/A
Luminaire Lumens: 5709.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13288	13288	13288
5°	13323	13267	13154
10°	13182	13145	12995
15°	12948	12948	12800
20°	12674	12690	12527
25°	12257	12409	12212
30°	11542	12061	11913
35°	10906	11560	11579
40°	10375	10935	11222
45°	9782	10273	10800
50°	9157	9681	10340
55°	8446	9007	9781
60°	7606	8219	9097
65°	6716	7308	8274
70°	5597	6224	7031
75°	4398	4970	5502
80°	3146	3499	3880
85°	2050	2050	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	4.1
10°-20°	653.1	11.4
20°-30°	954.3	16.7
30°-40°	1083.3	19.0
40°-50°	1045.7	18.3
50°-60°	862.6	15.1
60°-70°	574.5	10.1
70°-80°	257.1	4.5
80°-90°	46.0	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°	1839.8	32.2
0°-40°	2923.1	51.2
0°-60°	4831.5	84.6
0°-90°	5709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2469	2469	2469	2469	2469	
5°	2466	2465	2456	2442	2435	233
15°	2324	2330	2324	2313	2297	655
25°	2064	2080	2090	2074	2056	945
35°	1660	1683	1760	1769	1762	1040
45°	1285	1307	1350	1411	1419	992
55°	900	915	960	1013	1042	803
65°	527	542	574	615	650	523
75°	212	223	239	250	265	231
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2469.0	2469.0	2469.0	2469.0	2469.0
2.5°	2475.6	2476.6	2470.9	2455.7	2446.2
5°	2466.1	2465.2	2455.7	2442.4	2434.8
7.5°	2438.6	2440.5	2437.7	2418.7	2408.3
10°	2412.1	2413.0	2405.4	2390.3	2377.9
12.5°	2377.9	2377.0	2366.6	2359.0	2339.0
15°	2323.9	2329.6	2323.9	2313.4	2297.3
17.5°	2271.7	2271.7	2275.5	2257.5	2245.1
20°	2212.9	2215.7	2215.7	2201.5	2187.3
22.5°	2144.6	2153.1	2156.0	2140.8	2123.7
25°	2064.0	2080.1	2089.6	2074.4	2056.4
27.5°	1966.3	1990.9	2019.4	2008.0	1988.1
30°	1857.2	1893.2	1940.7	1931.2	1917.0
32.5°	1753.8	1789.9	1855.3	1851.5	1843.9
35°	1659.9	1682.7	1759.5	1769.0	1762.3
37.5°	1570.7	1591.6	1663.7	1685.5	1679.8
40°	1476.8	1499.6	1556.5	1595.4	1597.3
42.5°	1383.9	1405.7	1452.2	1508.1	1508.1
45°	1285.2	1307.1	1349.7	1411.4	1419.0
47.5°	1188.5	1211.3	1253.0	1314.6	1327.0
50°	1093.6	1114.5	1156.2	1216.0	1235.0
52.5°	995.0	1017.8	1058.5	1113.6	1141.1
55°	900.1	915.3	959.9	1013.0	1042.4
57.5°	801.5	815.7	866.0	911.5	941.9
60°	706.6	724.7	763.6	810.0	845.1
62.5°	615.6	634.6	667.8	708.5	748.4
65°	527.4	541.6	573.9	614.6	649.7
67.5°	442.0	454.3	486.6	515.0	552.0
70°	355.7	371.8	395.5	423.0	446.8
72.5°	286.5	293.1	313.0	332.9	357.6
75°	211.5	222.9	239.0	250.4	264.6
77.5°	151.8	158.4	167.9	177.4	190.7
80°	101.5	104.3	112.9	114.8	125.2
82.5°	61.7	63.6	65.4	66.4	70.2
85°	33.2	33.2	33.2	31.3	31.3
87.5°	19.0	19.0	16.1	13.3	9.5
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)