

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: P555547

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555547
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-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

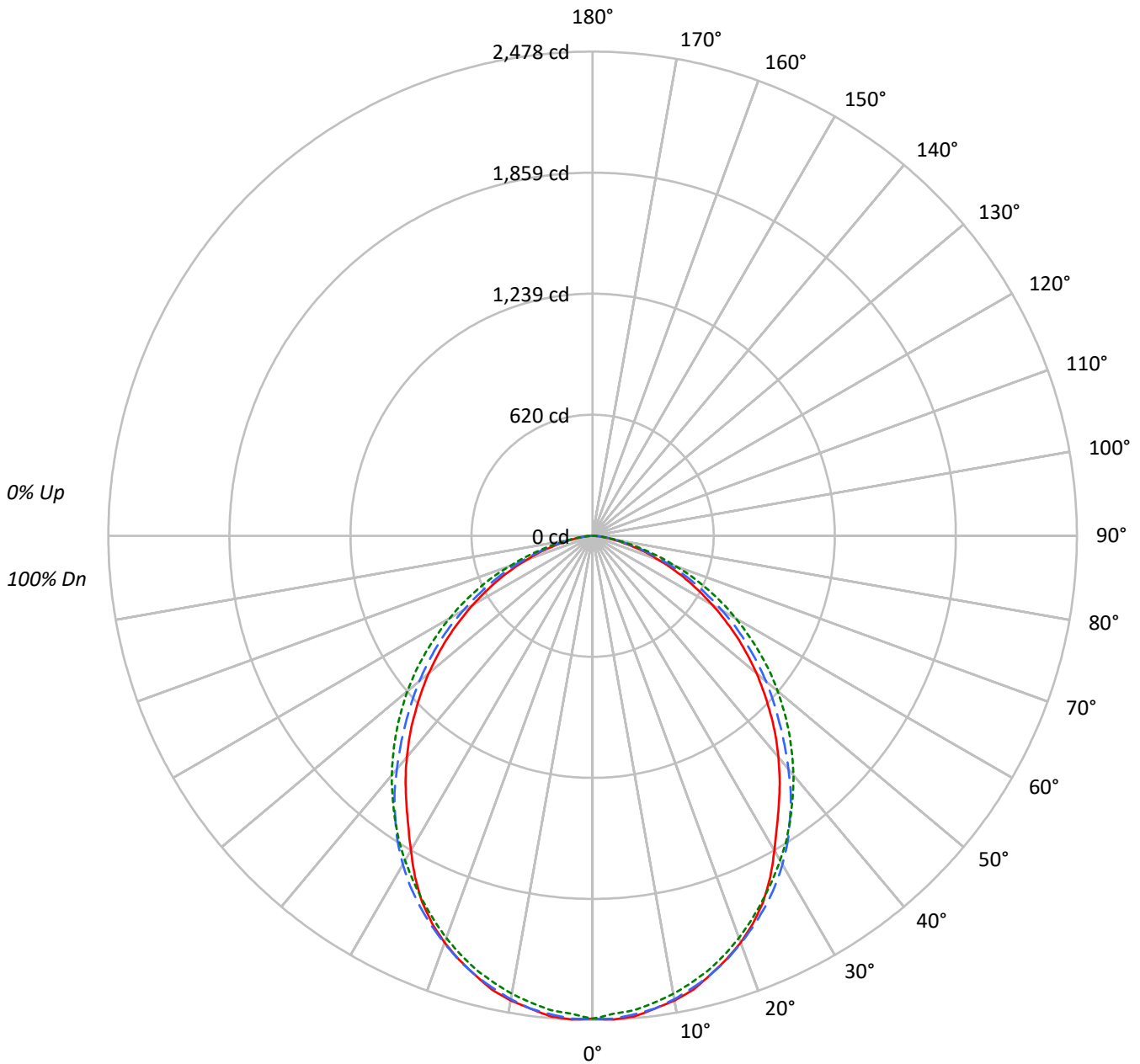
Lumens per Lamp: N/A
Luminaire Lumens: 5715.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	13302	13302	13302
5°	13337	13281	13168
10°	13196	13160	13009
15°	12962	12962	12813
20°	12687	12704	12541
25°	12269	12422	12225
30°	11554	12073	11926
35°	10918	11573	11591
40°	10387	10947	11234
45°	9793	10284	10812
50°	9167	9692	10351
55°	8455	9016	9791
60°	7614	8228	9106
65°	6723	7316	8283
70°	5604	6230	7037
75°	4402	4976	5508
80°	3149	3502	3883
85°	2050	2050	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.1
10°-20°	653.7	11.4
20°-30°	955.3	16.7
30°-40°	1084.4	19.0
40°-50°	1046.8	18.3
50°-60°	863.6	15.1
60°-70°	575.1	10.1
70°-80°	257.3	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°	1841.8	32.2
0°-40°	2926.2	51.2
0°-60°	4836.6	84.6
0°-90°	5715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2469	2468	2458	2445	2437	234
15°	2326	2332	2326	2316	2300	656
25°	2066	2082	2092	2077	2059	946
35°	1662	1684	1761	1771	1764	1041
45°	1287	1308	1351	1413	1420	993
55°	901	916	961	1014	1044	804
65°	528	542	574	615	650	523
75°	212	223	239	251	265	232
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°	2471.6	2471.6	2471.6	2471.6	2471.6
2.5°	2478.2	2479.2	2473.5	2458.3	2448.8
5°	2468.7	2467.8	2458.3	2445.0	2437.4
7.5°	2441.2	2443.1	2440.3	2421.3	2410.8
10°	2414.6	2415.6	2408.0	2392.8	2380.4
12.5°	2380.4	2379.5	2369.0	2361.4	2341.5
15°	2326.3	2332.0	2326.3	2315.9	2299.7
17.5°	2274.1	2274.1	2277.9	2259.8	2247.5
20°	2215.2	2218.1	2218.1	2203.8	2189.6
22.5°	2146.9	2155.4	2158.2	2143.1	2126.0
25°	2066.1	2082.3	2091.8	2076.6	2058.6
27.5°	1968.3	1993.0	2021.5	2010.1	1990.2
30°	1859.2	1895.2	1942.7	1933.2	1919.0
32.5°	1755.7	1791.7	1857.3	1853.5	1845.9
35°	1661.7	1684.4	1761.4	1770.8	1764.2
37.5°	1572.4	1593.3	1665.5	1687.3	1681.6
40°	1478.4	1501.2	1558.2	1597.1	1599.0
42.5°	1385.3	1407.2	1453.7	1509.7	1509.7
45°	1286.6	1308.4	1351.2	1412.9	1420.5
47.5°	1189.7	1212.5	1254.3	1316.0	1328.4
50°	1094.8	1115.7	1157.5	1217.3	1236.3
52.5°	996.0	1018.8	1059.7	1114.7	1142.3
55°	901.1	916.3	960.9	1014.1	1043.5
57.5°	802.3	816.6	866.9	912.5	942.9
60°	707.4	725.4	764.4	810.9	846.0
62.5°	616.2	635.2	668.5	709.3	749.2
65°	527.9	542.2	574.5	615.3	650.4
67.5°	442.5	454.8	487.1	515.6	552.6
70°	356.1	372.2	395.9	423.5	447.2
72.5°	286.8	293.4	313.3	333.3	358.0
75°	211.7	223.1	239.3	250.7	264.9
77.5°	151.9	158.6	168.1	177.6	190.9
80°	101.6	104.4	113.0	114.9	125.3
82.5°	61.7	63.6	65.5	66.5	70.3
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)