

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: P555521

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-84-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: P555521
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

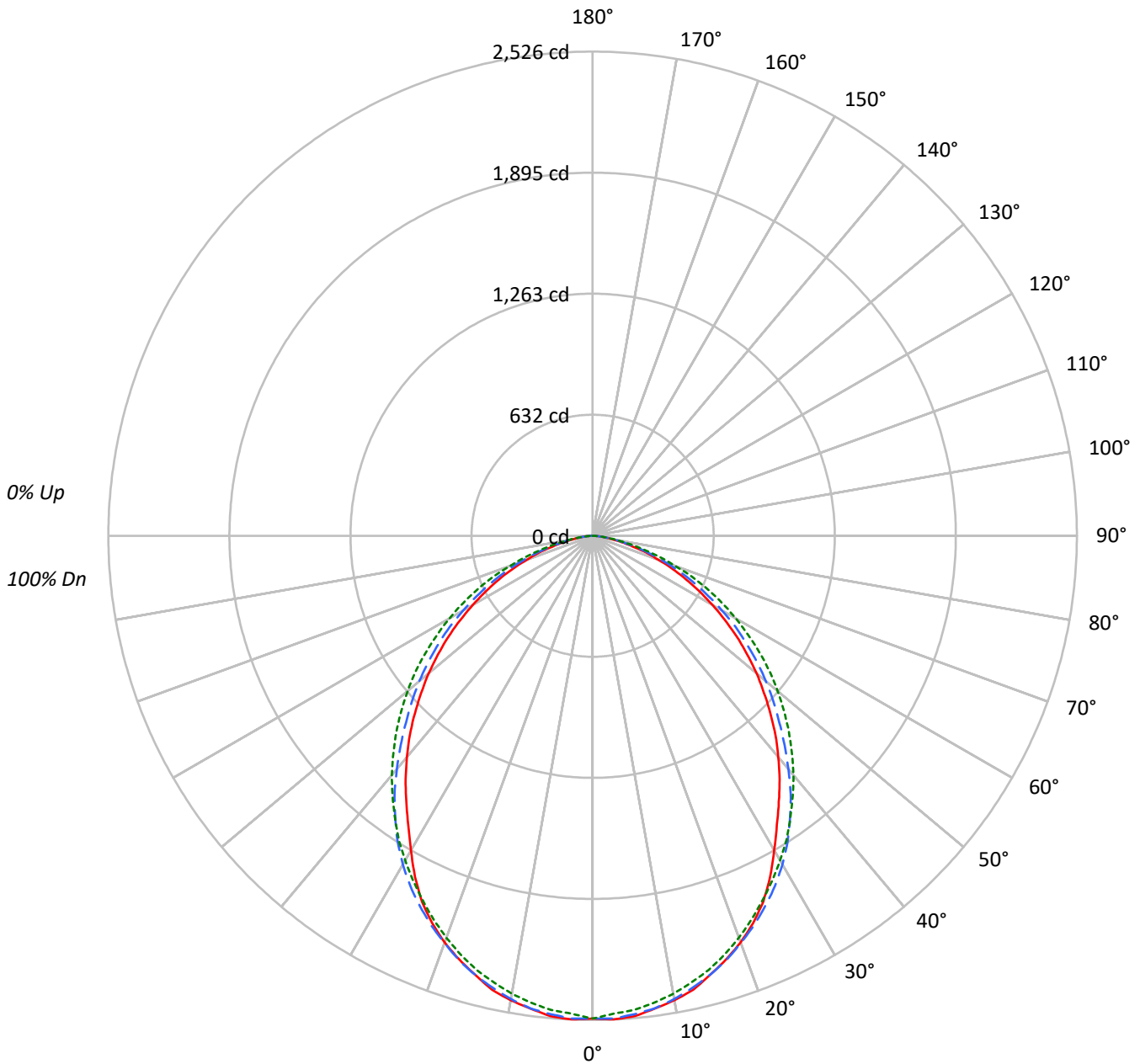
Lumens per Lamp: N/A
Luminaire Lumens: 5824.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	13556	13556	13556
5°	13592	13534	13419
10°	13448	13411	13257
15°	13209	13209	13058
20°	12930	12946	12779
25°	12504	12659	12457
30°	11774	12304	12153
35°	11125	11793	11812
40°	10585	11156	11448
45°	9979	10480	11018
50°	9342	9876	10548
55°	8617	9188	9978
60°	7760	8384	9281
65°	6851	7455	8441
70°	5711	6349	7172
75°	4487	5070	5614
80°	3208	3567	3958
85°	2093	2093	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	4.1
10°-20°	666.2	11.4
20°-30°	973.6	16.7
30°-40°	1105.1	19.0
40°-50°	1066.8	18.3
50°-60°	880.0	15.1
60°-70°	586.0	10.1
70°-80°	262.2	4.5
80°-90°	46.9	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°	1876.9	32.2
0°-40°	2982.0	51.2
0°-60°	4928.8	84.6
0°-90°	5824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2519	2519	2519	2519	2519	
5°	2516	2515	2505	2492	2484	238
15°	2371	2376	2371	2360	2344	668
25°	2106	2122	2132	2116	2098	964
35°	1693	1717	1795	1805	1798	1061
45°	1311	1333	1377	1440	1448	1012
55°	918	934	979	1033	1063	820
65°	538	552	585	627	663	533
75°	216	227	244	256	270	236
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2518.7	2518.7	2518.7	2518.7	2518.7
2.5°	2525.5	2526.5	2520.7	2505.2	2495.5
5°	2515.8	2514.9	2505.2	2491.6	2483.9
7.5°	2487.8	2489.7	2486.8	2467.4	2456.8
10°	2460.7	2461.6	2453.9	2438.4	2425.8
12.5°	2425.8	2424.9	2414.2	2406.5	2386.2
15°	2370.7	2376.5	2370.7	2360.0	2343.6
17.5°	2317.5	2317.5	2321.3	2302.9	2290.4
20°	2257.5	2260.4	2260.4	2245.9	2231.3
22.5°	2187.8	2196.5	2199.4	2183.9	2166.5
25°	2105.6	2122.0	2131.7	2116.2	2097.8
27.5°	2005.9	2031.0	2060.1	2048.5	2028.1
30°	1894.6	1931.4	1979.8	1970.1	1955.6
32.5°	1789.1	1825.9	1892.7	1888.8	1881.1
35°	1693.3	1716.6	1794.9	1804.6	1797.8
37.5°	1602.4	1623.7	1697.2	1719.5	1713.7
40°	1506.6	1529.8	1587.9	1627.5	1629.5
42.5°	1411.8	1434.0	1481.4	1538.5	1538.5
45°	1311.1	1333.4	1376.9	1439.8	1447.6
47.5°	1212.4	1235.7	1278.2	1341.1	1353.7
50°	1115.7	1137.0	1179.5	1240.5	1259.8
52.5°	1015.0	1038.3	1079.9	1136.0	1164.1
55°	918.3	933.8	979.2	1033.4	1063.4
57.5°	817.6	832.2	883.4	929.9	960.9
60°	720.9	739.3	778.9	826.4	862.2
62.5°	628.0	647.3	681.2	722.8	763.5
65°	538.0	552.5	585.4	627.0	662.8
67.5°	450.9	463.5	496.4	525.4	563.2
70°	362.9	379.3	403.5	431.6	455.8
72.5°	292.2	299.0	319.3	339.6	364.8
75°	215.8	227.4	243.8	255.5	270.0
77.5°	154.8	161.6	171.3	180.9	194.5
80°	103.5	106.4	115.1	117.1	127.7
82.5°	62.9	64.8	66.8	67.7	71.6
85°	33.9	33.9	33.9	31.9	31.9
87.5°	19.4	19.4	16.4	13.5	9.7
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)