

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: P555557

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-86-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: P555557
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-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

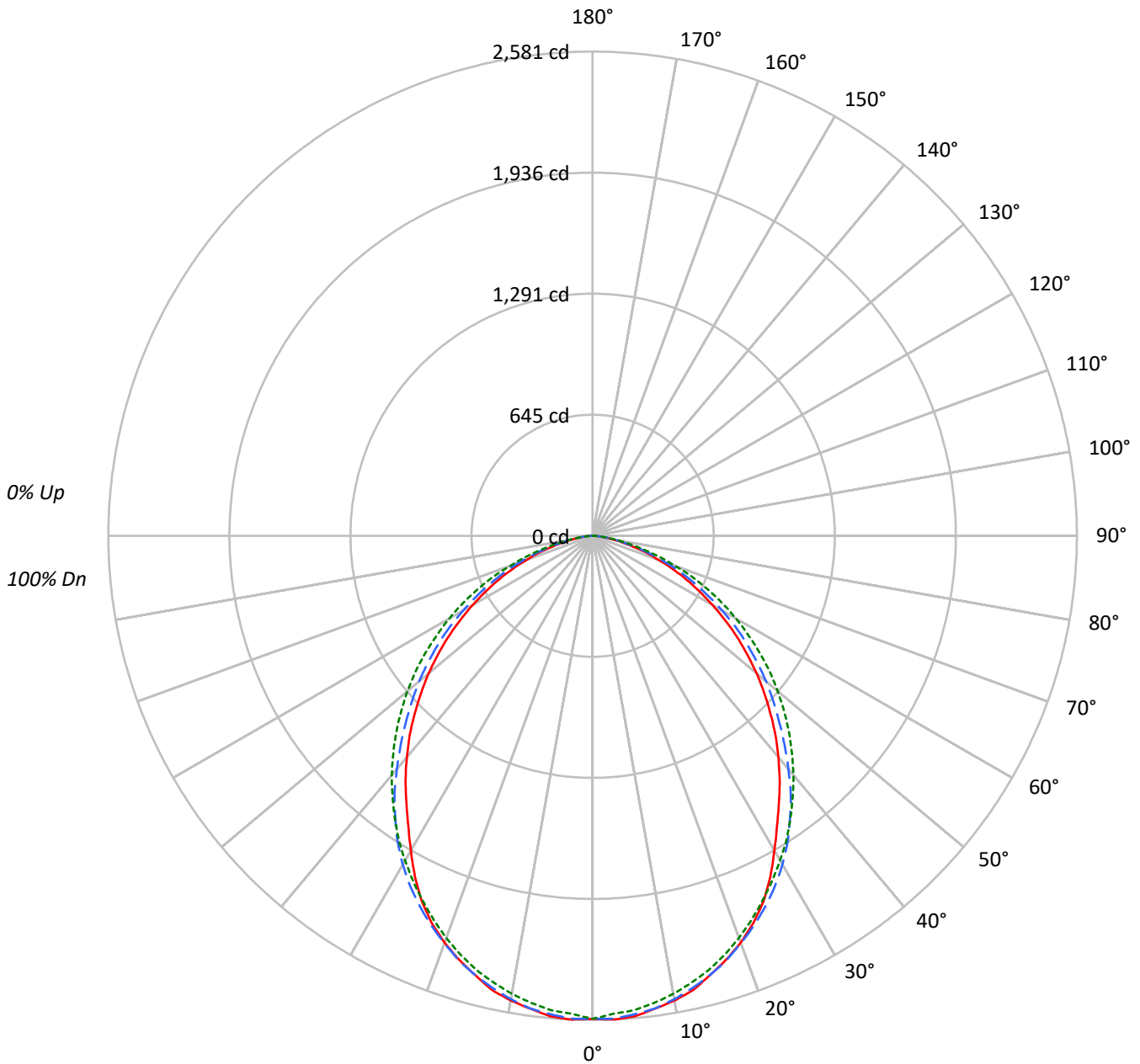
Lumens per Lamp: N/A
Luminaire Lumens: 5953.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	13856	13856	13856
5°	13893	13834	13716
10°	13746	13708	13551
15°	13502	13502	13347
20°	13216	13232	13063
25°	12780	12939	12734
30°	12035	12576	12422
35°	11372	12054	12074
40°	10819	11403	11702
45°	10201	10712	11262
50°	9548	10095	10783
55°	8807	9392	10199
60°	7931	8570	9486
65°	7003	7621	8628
70°	5836	6489	7330
75°	4587	5182	5737
80°	3279	3648	4048
85°	2137	2137	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	4.1
10°-20°	681.0	11.4
20°-30°	995.1	16.7
30°-40°	1129.6	19.0
40°-50°	1090.4	18.3
50°-60°	899.5	15.1
60°-70°	599.0	10.1
70°-80°	268.0	4.5
80°-90°	47.9	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°	1918.5	32.2
0°-40°	3048.1	51.2
0°-60°	5038.0	84.6
0°-90°	5953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2572	2571	2561	2547	2539	243
15°	2423	2429	2423	2412	2396	683
25°	2152	2169	2179	2163	2144	986
35°	1731	1755	1835	1845	1838	1084
45°	1340	1363	1407	1472	1480	1034
55°	939	954	1001	1056	1087	838
65°	550	565	598	641	678	545
75°	221	232	249	261	276	241
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2574.5	2574.5	2574.5	2574.5	2574.5
2.5°	2581.4	2582.4	2576.5	2560.7	2550.8
5°	2571.6	2570.6	2560.7	2546.8	2538.9
7.5°	2542.9	2544.8	2541.9	2522.1	2511.2
10°	2515.2	2516.2	2508.3	2492.4	2479.6
12.5°	2479.6	2478.6	2467.7	2459.8	2439.0
15°	2423.2	2429.1	2423.2	2412.3	2395.5
17.5°	2368.8	2368.8	2372.8	2354.0	2341.1
20°	2307.5	2310.4	2310.4	2295.6	2280.8
22.5°	2236.3	2245.2	2248.1	2232.3	2214.5
25°	2152.2	2169.0	2178.9	2163.1	2144.3
27.5°	2050.3	2076.0	2105.7	2093.8	2073.1
30°	1936.6	1974.2	2023.6	2013.7	1998.9
32.5°	1828.8	1866.4	1934.6	1930.6	1922.7
35°	1730.9	1754.6	1834.7	1844.6	1837.7
37.5°	1637.9	1659.6	1734.8	1757.6	1751.6
40°	1540.0	1563.7	1623.0	1663.6	1665.6
42.5°	1443.0	1465.8	1514.2	1572.6	1572.6
45°	1340.2	1362.9	1407.4	1471.7	1479.6
47.5°	1239.3	1263.0	1306.5	1370.8	1383.7
50°	1140.4	1162.1	1205.7	1268.0	1287.8
52.5°	1037.5	1061.3	1103.8	1161.2	1189.8
55°	938.6	954.4	1000.9	1056.3	1087.0
57.5°	835.8	850.6	903.0	950.5	982.1
60°	736.8	755.6	796.2	844.7	881.3
62.5°	641.9	661.7	696.3	738.8	780.4
65°	549.9	564.8	598.4	640.9	677.5
67.5°	460.9	473.8	507.4	537.1	575.6
70°	370.9	387.7	412.4	441.1	465.8
72.5°	298.7	305.6	326.4	347.2	372.9
75°	220.6	232.4	249.2	261.1	275.9
77.5°	158.2	165.2	175.1	185.0	198.8
80°	105.8	108.8	117.7	119.7	130.6
82.5°	64.3	66.3	68.2	69.2	73.2
85°	34.6	34.6	34.6	32.6	32.6
87.5°	19.8	19.8	16.8	13.8	9.9
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)