

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: P555595

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-94-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: P555595
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

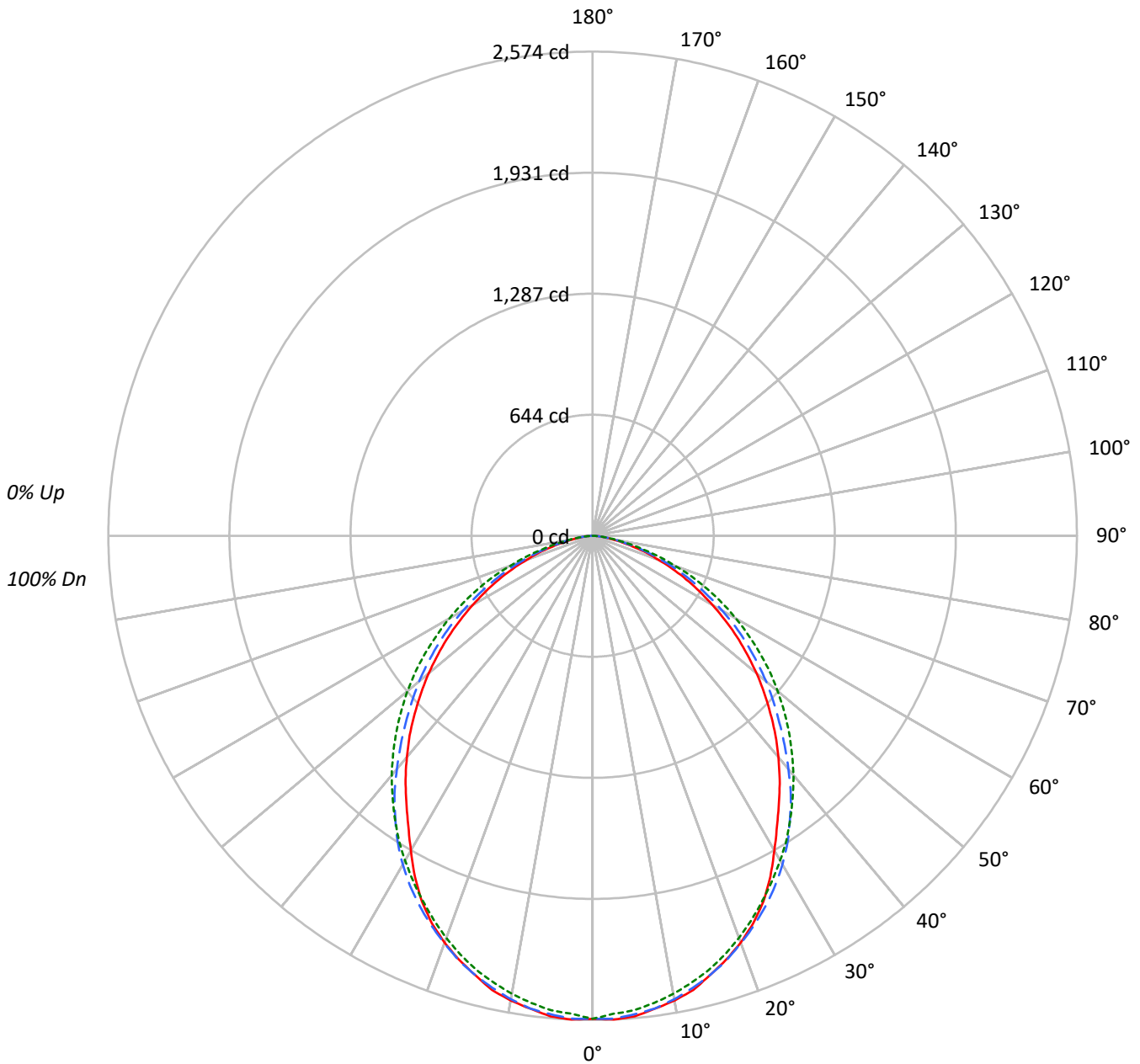
Lumens per Lamp: N/A
Luminaire Lumens: 5937.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13819	13819	13819
5°	13855	13797	13680
10°	13708	13671	13514
15°	13465	13465	13312
20°	13180	13197	13027
25°	12746	12904	12699
30°	12003	12542	12389
35°	11341	12022	12041
40°	10790	11372	11670
45°	10173	10683	11232
50°	9522	10068	10753
55°	8784	9366	10172
60°	7910	8548	9460
65°	6984	7600	8605
70°	5821	6472	7311
75°	4575	5169	5723
80°	3270	3639	4035
85°	2130	2130	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	4.1
10°-20°	679.1	11.4
20°-30°	992.4	16.7
30°-40°	1126.5	19.0
40°-50°	1087.5	18.3
50°-60°	897.1	15.1
60°-70°	597.4	10.1
70°-80°	267.3	4.5
80°-90°	47.8	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°	1913.3	32.2
0°-40°	3039.9	51.2
0°-60°	5024.4	84.6
0°-90°	5937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2565	2564	2554	2540	2532	243
15°	2417	2423	2417	2406	2389	681
25°	2146	2163	2173	2157	2138	983
35°	1726	1750	1830	1840	1833	1082
45°	1337	1359	1404	1468	1476	1031
55°	936	952	998	1054	1084	835
65°	548	563	597	639	676	544
75°	220	232	249	260	275	241
85°	34	34	34	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2567.6	2567.6	2567.6	2567.6	2567.6
2.5°	2574.5	2575.5	2569.6	2553.8	2543.9
5°	2564.6	2563.7	2553.8	2540.0	2532.1
7.5°	2536.0	2538.0	2535.0	2515.3	2504.5
10°	2508.4	2509.4	2501.5	2485.7	2472.9
12.5°	2472.9	2471.9	2461.1	2453.2	2432.5
15°	2416.7	2422.6	2416.7	2405.8	2389.1
17.5°	2362.4	2362.4	2366.4	2347.6	2334.8
20°	2301.3	2304.2	2304.2	2289.4	2274.6
22.5°	2230.3	2239.1	2242.1	2226.3	2208.5
25°	2146.4	2163.2	2173.0	2157.3	2138.5
27.5°	2044.8	2070.5	2100.0	2088.2	2067.5
30°	1931.4	1968.9	2018.2	2008.3	1993.5
32.5°	1823.9	1861.3	1929.4	1925.5	1917.6
35°	1726.2	1749.9	1829.8	1839.6	1832.7
37.5°	1633.5	1655.2	1730.1	1752.8	1746.9
40°	1535.8	1559.5	1618.7	1659.1	1661.1
42.5°	1439.2	1461.8	1510.2	1568.4	1568.4
45°	1336.6	1359.3	1403.6	1467.8	1475.7
47.5°	1236.0	1259.6	1303.0	1367.2	1380.0
50°	1137.3	1159.0	1202.4	1264.6	1284.3
52.5°	1034.7	1058.4	1100.8	1158.0	1186.6
55°	936.1	951.9	998.2	1053.5	1084.1
57.5°	833.5	848.3	900.6	947.9	979.5
60°	734.9	753.6	794.1	842.4	878.9
62.5°	640.2	659.9	694.4	736.8	778.3
65°	548.4	563.2	596.8	639.2	675.7
67.5°	459.7	472.5	506.0	535.6	574.1
70°	369.9	386.7	411.3	439.9	464.6
72.5°	297.9	304.8	325.5	346.2	371.9
75°	220.0	231.8	248.6	260.4	275.2
77.5°	157.8	164.7	174.6	184.5	198.3
80°	105.5	108.5	117.4	119.4	130.2
82.5°	64.1	66.1	68.1	69.0	73.0
85°	34.5	34.5	34.5	32.6	32.6
87.5°	19.7	19.7	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)