

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: P555438

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-97-EDD-90**

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: P555438
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-30-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

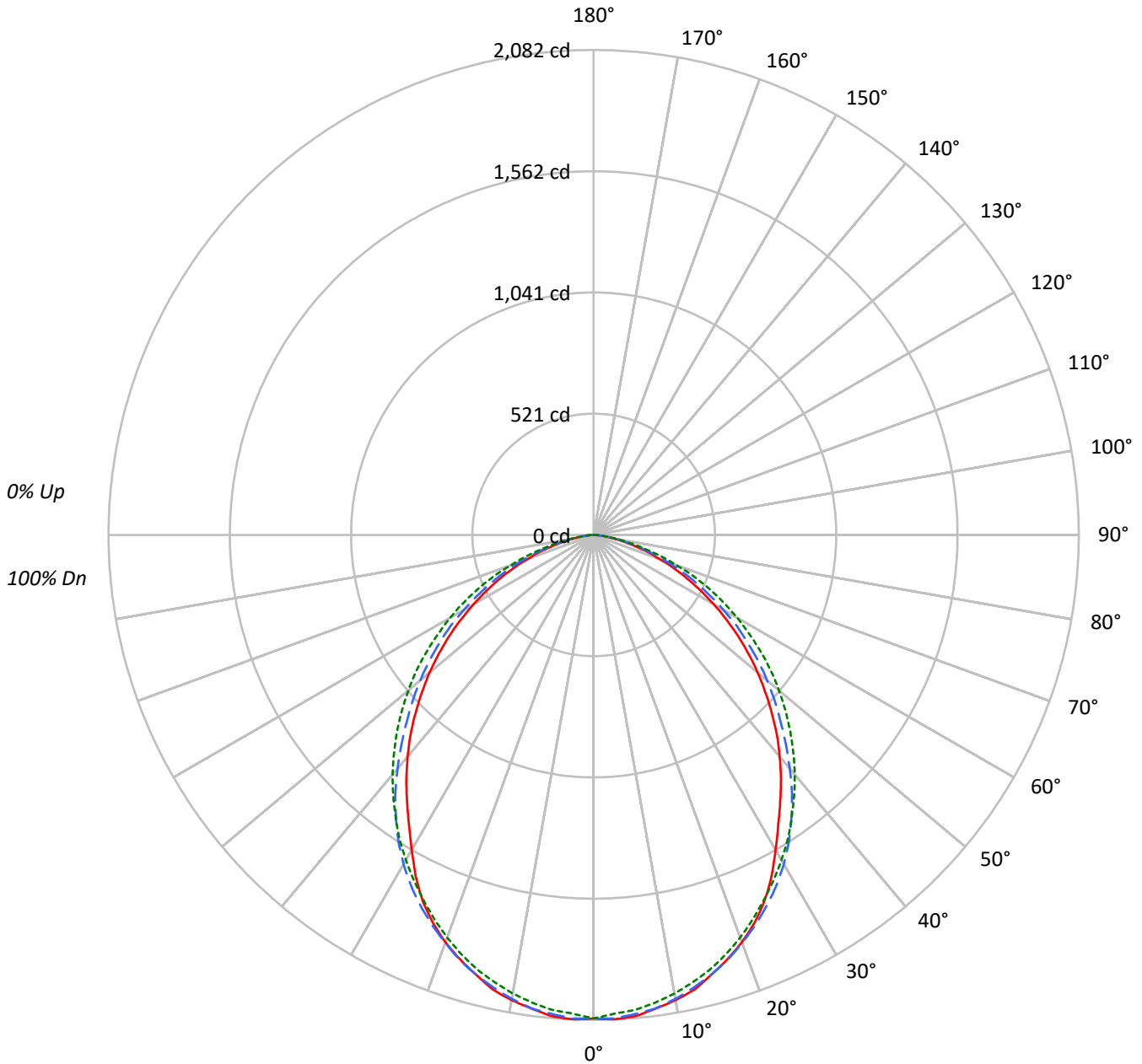
Lumens per Lamp: N/A
Luminaire Lumens: 4800.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	11172	11172	11172
5°	11202	11155	11060
10°	11083	11052	10926
15°	10887	10887	10762
20°	10656	10669	10533
25°	10305	10433	10267
30°	9704	10140	10016
35°	9169	9720	9735
40°	8724	9194	9435
45°	8225	8637	9081
50°	7699	8139	8694
55°	7101	7573	8223
60°	6395	6910	7649
65°	5647	6145	6957
70°	4707	5234	5910
75°	3697	4180	4627
80°	2644	2941	3264
85°	1723	1723	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	4.1
10°-20°	549.1	11.4
20°-30°	802.4	16.7
30°-40°	910.8	19.0
40°-50°	879.2	18.3
50°-60°	725.3	15.1
60°-70°	483.0	10.1
70°-80°	216.1	4.5
80°-90°	38.7	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°	1546.9	32.2
0°-40°	2457.7	51.2
0°-60°	4062.2	84.6
0°-90°	4800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2074	2073	2065	2054	2047	196
15°	1954	1959	1954	1945	1932	551
25°	1735	1749	1757	1744	1729	795
35°	1396	1415	1479	1487	1482	874
45°	1081	1099	1135	1187	1193	834
55°	757	770	807	852	876	675
65°	443	455	482	517	546	440
75°	178	187	201	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.9	2075.9	2075.9	2075.9	2075.9
2.5°	2081.5	2082.3	2077.5	2064.7	2056.7
5°	2073.5	2072.7	2064.7	2053.5	2047.2
7.5°	2050.4	2052.0	2049.6	2033.6	2024.8
10°	2028.0	2028.8	2022.4	2009.7	1999.3
12.5°	1999.3	1998.5	1989.7	1983.4	1966.6
15°	1953.9	1958.6	1953.9	1945.1	1931.5
17.5°	1910.0	1910.0	1913.2	1898.0	1887.7
20°	1860.6	1862.9	1862.9	1851.0	1839.0
22.5°	1803.1	1810.3	1812.7	1799.9	1785.6
25°	1735.3	1748.9	1756.9	1744.1	1729.0
27.5°	1653.2	1673.9	1697.9	1688.3	1671.5
30°	1561.5	1591.8	1631.7	1623.7	1611.7
32.5°	1474.6	1504.9	1559.9	1556.7	1550.3
35°	1395.6	1414.8	1479.4	1487.3	1481.7
37.5°	1320.6	1338.2	1398.8	1417.1	1412.4
40°	1241.7	1260.8	1308.7	1341.4	1343.0
42.5°	1163.5	1181.9	1221.0	1268.0	1268.0
45°	1080.6	1098.9	1134.8	1186.7	1193.1
47.5°	999.3	1018.4	1053.5	1105.3	1115.7
50°	919.5	937.1	972.1	1022.4	1038.3
52.5°	836.6	855.7	890.0	936.3	959.4
55°	756.8	769.6	807.1	851.7	876.4
57.5°	673.9	685.8	728.1	766.4	791.9
60°	594.1	609.3	642.0	681.1	710.6
62.5°	517.6	533.5	561.4	595.7	629.2
65°	443.4	455.4	482.5	516.8	546.3
67.5°	371.6	382.0	409.1	433.0	464.1
70°	299.1	312.6	332.6	355.7	375.6
72.5°	240.8	246.4	263.2	279.9	300.7
75°	177.8	187.4	201.0	210.5	222.5
77.5°	127.6	133.2	141.2	149.1	160.3
80°	85.3	87.7	94.9	96.5	105.3
82.5°	51.8	53.4	55.0	55.8	59.0
85°	27.9	27.9	27.9	26.3	26.3
87.5°	15.9	15.9	13.6	11.2	8.0
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)