

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: P555403

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555403
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-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 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

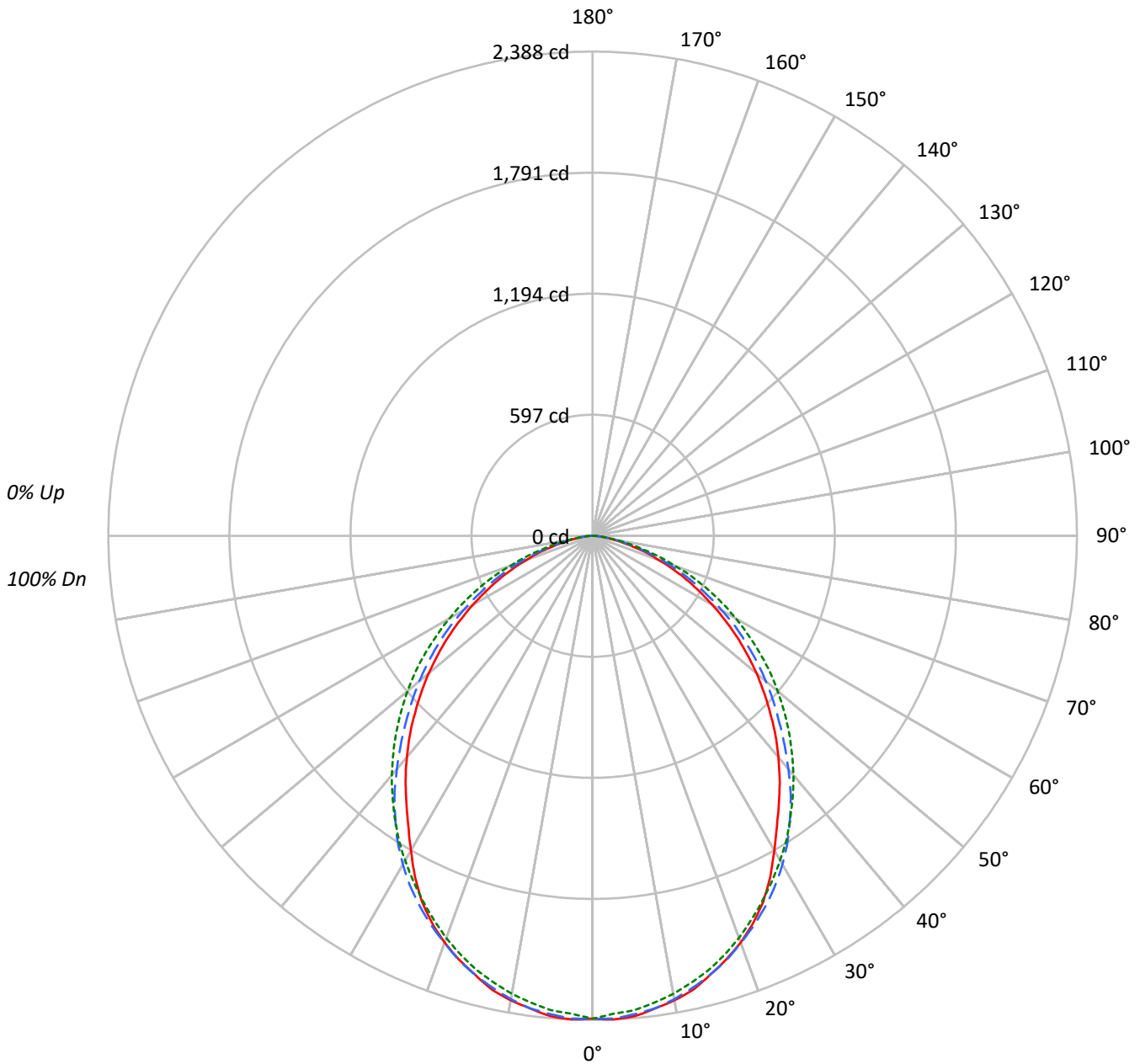
Lumens per Lamp: N/A
Luminaire Lumens: 5507.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12818	12818	12818
5°	12852	12797	12689
10°	12715	12680	12536
15°	12490	12490	12347
20°	12226	12241	12084
25°	11823	11970	11779
30°	11133	11634	11491
35°	10520	11151	11169
40°	10009	10548	10825
45°	9436	9910	10418
50°	8833	9338	9975
55°	8147	8688	9435
60°	7337	7928	8775
65°	6478	7049	7981
70°	5399	6003	6781
75°	4242	4795	5309
80°	3034	3375	3744
85°	1976	1976	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	4.1
10°-20°	629.9	11.4
20°-30°	920.6	16.7
30°-40°	1044.9	19.0
40°-50°	1008.7	18.3
50°-60°	832.1	15.1
60°-70°	554.1	10.1
70°-80°	248.0	4.5
80°-90°	44.4	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°	1774.7	32.2
0°-40°	2819.7	51.2
0°-60°	4660.5	84.6
0°-90°	5507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2379	2378	2369	2356	2349	225
15°	2242	2247	2242	2232	2216	632
25°	1991	2006	2016	2001	1984	912
35°	1601	1623	1697	1706	1700	1003
45°	1240	1261	1302	1362	1369	957
55°	868	883	926	977	1006	775
65°	509	522	554	593	627	504
75°	204	215	231	242	255	223
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.6	<i>2381.6</i>	2381.6	2381.6	2381.6
2.5°	<i>2388.0</i>	<i>2389.0</i>	<i>2383.5</i>	<i>2368.8</i>	<i>2359.7</i>
5°	2378.9	<i>2378.0</i>	2368.8	2356.0	2348.7
7.5°	2352.4	<i>2354.2</i>	2351.4	2333.1	2323.1
10°	2326.7	<i>2327.7</i>	2320.3	2305.7	2293.8
12.5°	2293.8	<i>2292.9</i>	2282.8	2275.5	2256.3
15°	2241.6	<i>2247.1</i>	2241.6	2231.6	2216.0
17.5°	2191.3	<i>2191.3</i>	2195.0	2177.6	2165.7
20°	2134.6	<i>2137.3</i>	2137.3	2123.6	2109.9
22.5°	2068.7	<i>2077.0</i>	2079.7	2065.1	2048.6
25°	1990.9	<i>2006.5</i>	2015.7	2001.0	1983.6
27.5°	1896.7	<i>1920.5</i>	1947.9	1937.0	1917.8
30°	1791.5	<i>1826.3</i>	1872.0	1862.9	1849.1
32.5°	1691.8	<i>1726.5</i>	1789.7	1786.0	1778.7
35°	1601.2	<i>1623.1</i>	1697.2	1706.4	1700.0
37.5°	1515.2	<i>1535.3</i>	1604.8	1625.9	1620.4
40°	1424.6	<i>1446.5</i>	1501.4	1539.0	1540.8
42.5°	1334.9	<i>1356.0</i>	1400.8	1454.8	1454.8
45°	1239.8	<i>1260.8</i>	1302.0	1361.5	1368.8
47.5°	1146.4	<i>1168.4</i>	1208.7	1268.1	1280.0
50°	1054.9	<i>1075.1</i>	1115.3	1173.0	1191.3
52.5°	959.8	<i>981.7</i>	1021.1	1074.2	1100.7
55°	868.3	<i>882.9</i>	925.9	977.2	1005.5
57.5°	773.1	<i>786.9</i>	835.4	879.3	908.6
60°	681.6	<i>699.0</i>	736.5	781.4	815.2
62.5°	593.8	<i>612.1</i>	644.1	683.5	721.9
65°	508.7	<i>522.4</i>	553.5	592.9	626.7
67.5°	426.4	<i>438.3</i>	469.4	496.8	532.5
70°	343.1	<i>358.7</i>	381.5	408.1	430.9
72.5°	276.3	<i>282.7</i>	301.9	321.2	344.9
75°	204.0	<i>215.0</i>	230.6	241.5	255.3
77.5°	146.4	<i>152.8</i>	161.9	171.1	183.9
80°	97.9	<i>100.6</i>	108.9	110.7	120.8
82.5°	59.5	<i>61.3</i>	63.1	64.0	67.7
85°	32.0	<i>32.0</i>	32.0	30.2	30.2
87.5°	18.3	<i>18.3</i>	15.6	12.8	9.1
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)