

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: P555407

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-97-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: P555407
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-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

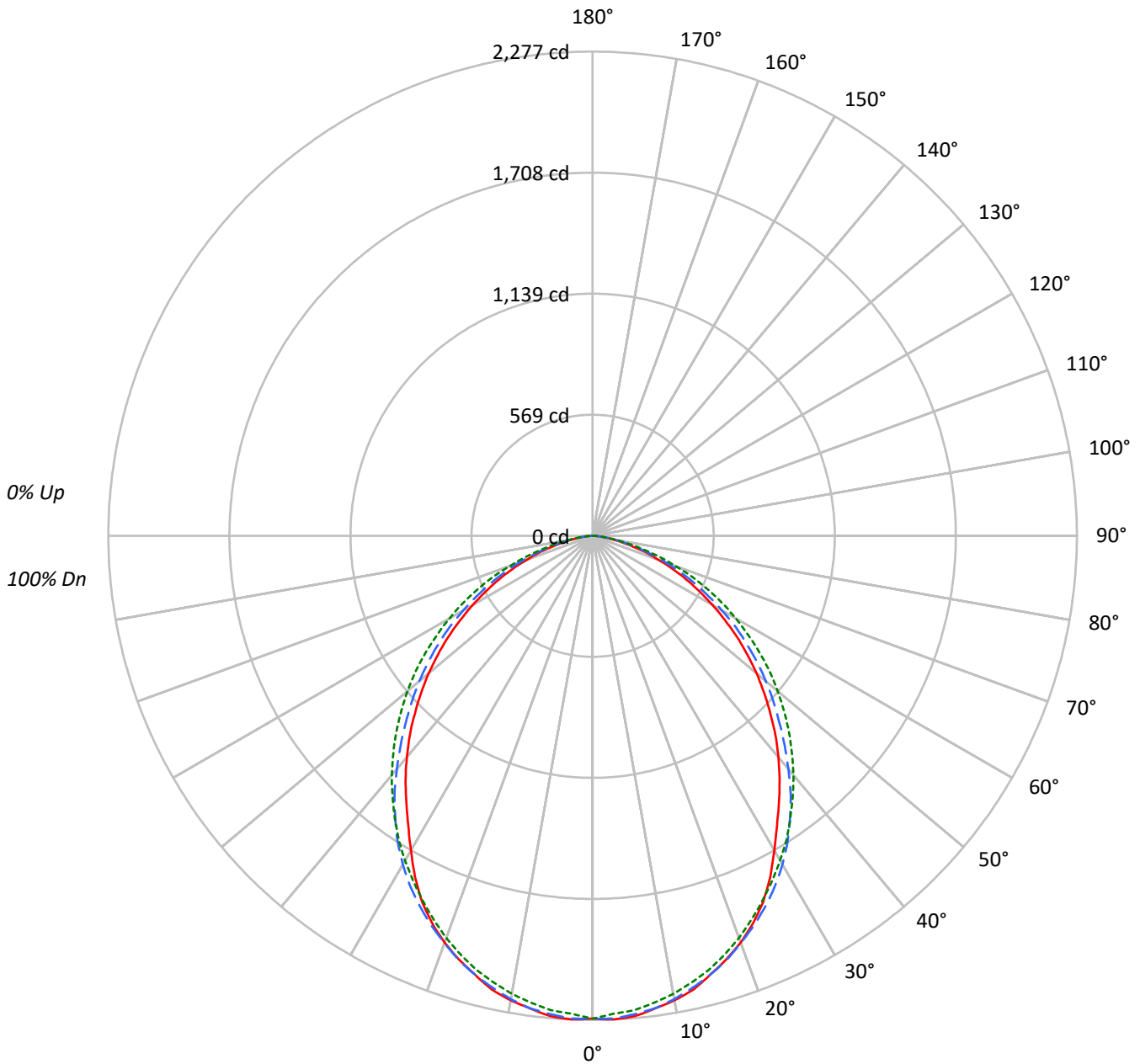
Lumens per Lamp: N/A
Luminaire Lumens: 5251.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12222	12222	12222
5°	12255	12203	12099
10°	12125	12091	11953
15°	11909	11909	11773
20°	11657	11672	11522
25°	11273	11413	11232
30°	10616	11093	10957
35°	10031	10632	10650
40°	9544	10058	10322
45°	8997	9449	9933
50°	8422	8905	9511
55°	7768	8284	8997
60°	6997	7559	8367
65°	6178	6721	7610
70°	5149	5725	6466
75°	4047	4573	5061
80°	2892	3217	3570
85°	1883	1883	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	4.1
10°-20°	600.7	11.4
20°-30°	877.8	16.7
30°-40°	996.4	19.0
40°-50°	961.8	18.3
50°-60°	793.4	15.1
60°-70°	528.4	10.1
70°-80°	236.4	4.5
80°-90°	42.3	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°	1692.2	32.2
0°-40°	2688.6	51.2
0°-60°	4443.9	84.6
0°-90°	5251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2268	2267	2259	2246	2240	215
15°	2137	2143	2137	2128	2113	603
25°	1898	1913	1922	1908	1891	869
35°	1527	1548	1618	1627	1621	957
45°	1182	1202	1242	1298	1305	912
55°	828	842	883	932	959	739
65°	485	498	528	565	598	481
75°	195	205	220	230	243	213
85°	30	30	30	29	29	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.9	2270.9	2270.9	2270.9	2270.9
2.5°	2277.0	2277.9	2272.7	2258.7	2250.0
5°	2268.3	2267.4	2258.7	2246.5	2239.5
7.5°	2243.0	2244.7	2242.1	2224.7	2215.1
10°	2218.6	2219.4	2212.5	2198.5	2187.2
12.5°	2187.2	2186.3	2176.7	2169.7	2151.4
15°	2137.4	2142.7	2137.4	2127.8	2113.0
17.5°	2089.5	2089.5	2092.9	2076.4	2065.0
20°	2035.4	2038.0	2038.0	2024.9	2011.8
22.5°	1972.6	1980.4	1983.0	1969.1	1953.4
25°	1898.4	1913.2	1922.0	1908.0	1891.4
27.5°	1808.5	1831.2	1857.4	1846.9	1828.6
30°	1708.2	1741.4	1785.0	1776.3	1763.2
32.5°	1613.1	1646.3	1706.5	1703.0	1696.0
35°	1526.7	1547.7	1618.3	1627.1	1621.0
37.5°	1444.7	1463.9	1530.2	1550.3	1545.1
40°	1358.4	1379.3	1431.6	1467.4	1469.2
42.5°	1272.9	1292.9	1335.7	1387.2	1387.2
45°	1182.1	1202.2	1241.5	1298.2	1305.1
47.5°	1093.1	1114.1	1152.5	1209.2	1220.5
50°	1005.9	1025.1	1063.5	1118.4	1135.9
52.5°	915.2	936.1	973.6	1024.2	1049.5
55°	827.9	841.9	882.9	931.7	958.8
57.5°	737.2	750.3	796.5	838.4	866.3
60°	650.0	666.5	702.3	745.1	777.3
62.5°	566.2	583.7	614.2	651.7	688.3
65°	485.1	498.2	527.8	565.3	597.6
67.5°	406.5	417.9	447.6	473.7	507.8
70°	327.2	342.0	363.8	389.1	410.9
72.5°	263.5	269.6	287.9	306.2	328.9
75°	194.6	205.0	219.9	230.3	243.4
77.5°	139.6	145.7	154.4	163.1	175.4
80°	93.3	96.0	103.8	105.6	115.2
82.5°	56.7	58.5	60.2	61.1	64.6
85°	30.5	30.5	30.5	28.8	28.8
87.5°	17.4	17.4	14.8	12.2	8.7
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)