

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: P555630

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-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: P555630
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-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

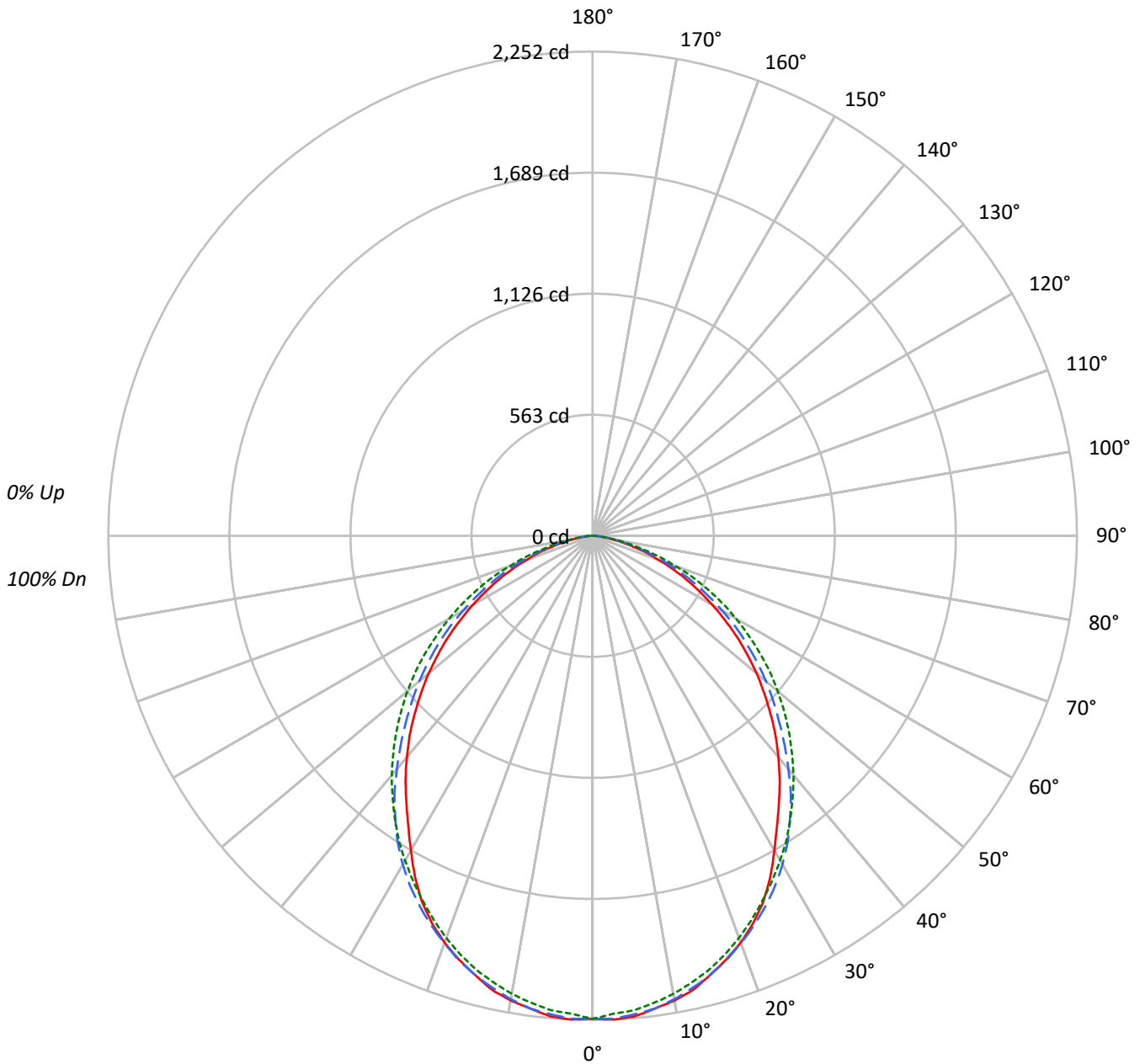
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12089	12089	12089
5°	12122	12070	11968
10°	11993	11960	11823
15°	11780	11780	11646
20°	11531	11546	11397
25°	11151	11289	11110
30°	10501	10972	10838
35°	9922	10518	10535
40°	9440	9949	10210
45°	8900	9347	9826
50°	8331	8807	9408
55°	7684	8194	8899
60°	6920	7478	8276
65°	6110	6649	7528
70°	5092	5663	6397
75°	4001	4523	5007
80°	2861	3183	3530
85°	1865	1865	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	4.1
10°-20°	594.1	11.4
20°-30°	868.2	16.7
30°-40°	985.5	19.0
40°-50°	951.4	18.3
50°-60°	784.8	15.1
60°-70°	522.6	10.1
70°-80°	233.9	4.5
80°-90°	41.8	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°	1673.9	32.2
0°-40°	2659.4	51.2
0°-60°	4395.7	84.6
0°-90°	5194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2246	2246	2246	2246	2246	
5°	2244	2243	2234	2222	2215	212
15°	2114	2119	2114	2105	2090	596
25°	1878	1892	1901	1887	1871	860
35°	1510	1531	1601	1609	1603	946
45°	1169	1189	1228	1284	1291	902
55°	819	833	873	922	948	731
65°	480	493	522	559	591	476
75°	192	203	218	228	241	210
85°	30	30	30	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2246.3	2246.3	2246.3	2246.3	2246.3
2.5°	2252.3	2253.2	2248.0	2234.2	2225.6
5°	2243.7	2242.8	2234.2	2222.1	2215.2
7.5°	2218.7	2220.4	2217.8	2200.5	2191.0
10°	2194.5	2195.4	2188.5	2174.6	2163.4
12.5°	2163.4	2162.6	2153.1	2146.2	2128.0
15°	2114.2	2119.4	2114.2	2104.7	2090.1
17.5°	2066.8	2066.8	2070.2	2053.8	2042.6
20°	2013.3	2015.9	2015.9	2002.9	1990.0
22.5°	1951.1	1958.9	1961.5	1947.7	1932.2
25°	1877.8	1892.5	1901.1	1887.3	1870.9
27.5°	1788.9	1811.3	1837.2	1826.9	1808.8
30°	1689.7	1722.5	1765.6	1757.0	1744.0
32.5°	1595.6	1628.4	1687.9	1684.5	1677.6
35°	1510.2	1530.9	1600.8	1609.4	1603.4
37.5°	1429.1	1448.0	1513.6	1533.5	1528.3
40°	1343.6	1364.3	1416.1	1451.5	1453.2
42.5°	1259.1	1278.9	1321.2	1372.1	1372.1
45°	1169.3	1189.2	1228.0	1284.1	1291.0
47.5°	1081.3	1102.0	1140.0	1196.1	1207.3
50°	995.0	1014.0	1051.9	1106.3	1123.6
52.5°	905.2	926.0	963.1	1013.1	1038.1
55°	818.9	832.8	873.3	921.6	948.4
57.5°	729.2	742.1	787.9	829.3	856.9
60°	642.9	659.3	694.7	737.0	768.9
62.5°	560.1	577.3	607.5	644.6	680.9
65°	479.8	492.7	522.1	559.2	591.1
67.5°	402.1	413.4	442.7	468.6	502.2
70°	323.6	338.3	359.9	384.9	406.5
72.5°	260.6	266.7	284.8	302.9	325.3
75°	192.4	202.8	217.5	227.8	240.8
77.5°	138.1	144.1	152.7	161.4	173.5
80°	92.3	94.9	102.7	104.4	113.9
82.5°	56.1	57.8	59.5	60.4	63.9
85°	30.2	30.2	30.2	28.5	28.5
87.5°	17.3	17.3	14.7	12.1	8.6
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)