

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: P555607

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-87-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: P555607
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-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

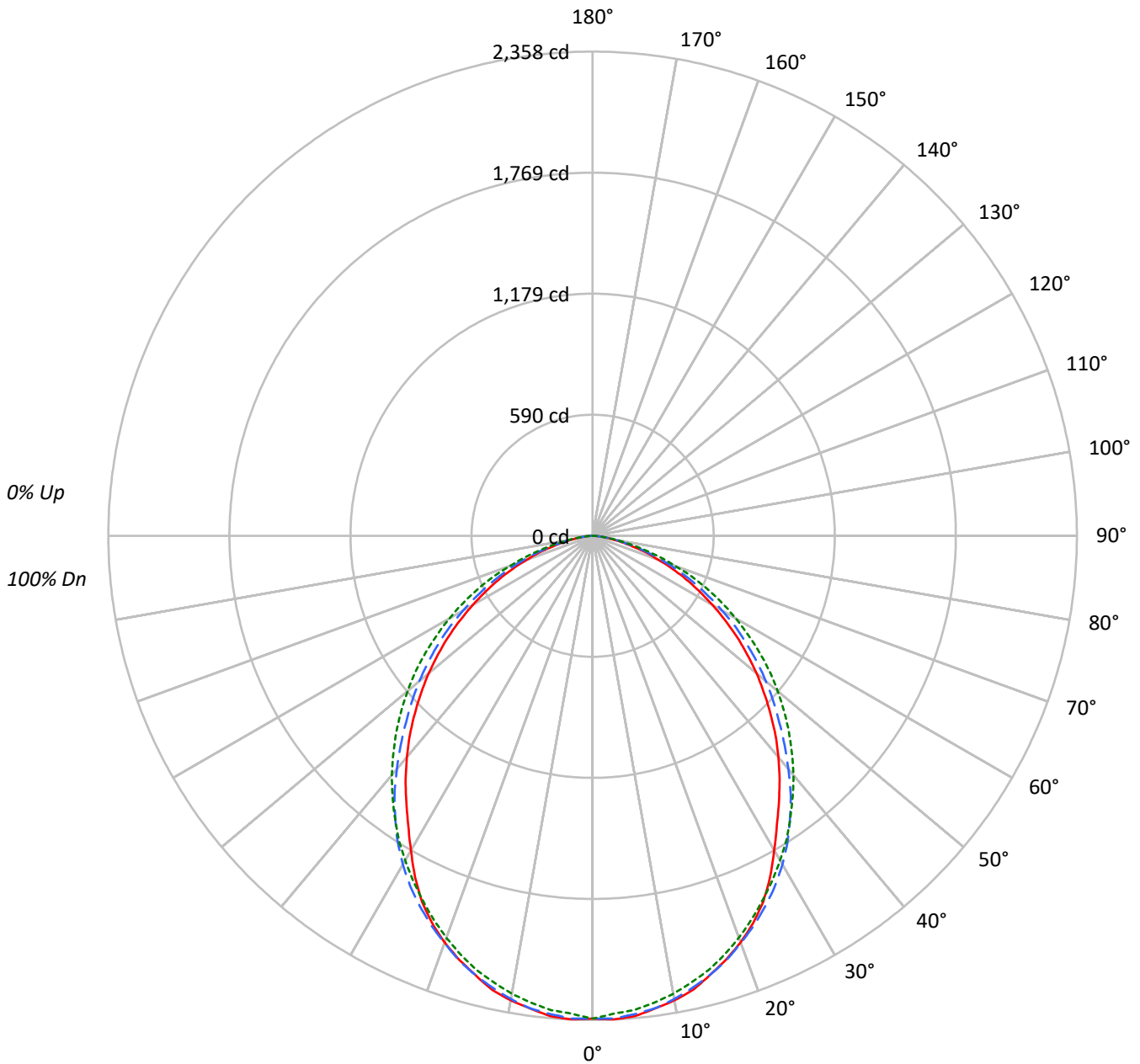
Lumens per Lamp: N/A
Luminaire Lumens: 5437.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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°	12655	12655	12655
5°	12689	12635	12527
10°	12554	12519	12376
15°	12332	12332	12191
20°	12070	12086	11931
25°	11672	11817	11630
30°	10992	11486	11345
35°	10386	11010	11027
40°	9882	10415	10687
45°	9316	9783	10286
50°	8720	9220	9847
55°	8044	8578	9316
60°	7244	7828	8664
65°	6397	6960	7880
70°	5330	5928	6696
75°	4188	4733	5240
80°	2997	3332	3694
85°	1951	1951	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	4.1
10°-20°	621.9	11.4
20°-30°	908.9	16.7
30°-40°	1031.7	19.0
40°-50°	995.9	18.3
50°-60°	821.6	15.1
60°-70°	547.1	10.1
70°-80°	244.8	4.5
80°-90°	43.8	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°	1752.2	32.2
0°-40°	2783.9	51.2
0°-60°	4601.3	84.6
0°-90°	5437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2349	2348	2339	2326	2319	222
15°	2213	2219	2213	2203	2188	624
25°	1966	1981	1990	1976	1958	900
35°	1581	1602	1676	1685	1678	990
45°	1224	1245	1285	1344	1351	944
55°	857	872	914	965	993	765
65°	502	516	546	585	619	498
75°	201	212	228	238	252	220
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°	2351.4	2351.4	2351.4	2351.4	2351.4
2.5°	2357.7	2358.6	2353.2	2338.7	2329.7
5°	2348.7	2347.7	2338.7	2326.1	2318.8
7.5°	2322.5	2324.3	2321.6	2303.5	2293.5
10°	2297.2	2298.1	2290.8	2276.4	2264.6
12.5°	2264.6	2263.7	2253.8	2246.6	2227.6
15°	2213.2	2218.6	2213.2	2203.2	2187.9
17.5°	2163.5	2163.5	2167.1	2149.9	2138.2
20°	2107.5	2110.2	2110.2	2096.6	2083.1
22.5°	2042.4	2050.6	2053.3	2038.8	2022.6
25°	1965.6	1981.0	1990.0	1975.6	1958.4
27.5°	1872.6	1896.1	1923.2	1912.3	1893.4
30°	1768.7	1803.0	1848.2	1839.2	1825.6
32.5°	1670.3	1704.6	1766.9	1763.3	1756.1
35°	1580.8	1602.5	1675.7	1684.7	1678.4
37.5°	1495.9	1515.8	1584.4	1605.2	1599.8
40°	1406.5	1428.2	1482.4	1519.4	1521.2
42.5°	1318.0	1338.7	1383.0	1436.3	1436.3
45°	1224.0	1244.8	1285.4	1344.2	1351.4
47.5°	1131.9	1153.5	1193.3	1252.0	1263.8
50°	1041.5	1061.4	1101.2	1158.1	1176.1
52.5°	947.6	969.3	1008.1	1060.5	1086.7
55°	857.3	871.7	914.2	964.8	992.8
57.5°	763.3	776.9	824.7	868.1	897.0
60°	673.0	690.1	727.2	771.4	804.9
62.5°	586.3	604.3	635.9	674.8	712.7
65°	502.3	515.8	546.5	585.4	618.8
67.5°	421.0	432.7	463.4	490.5	525.7
70°	338.7	354.1	376.7	402.9	425.5
72.5°	272.8	279.1	298.1	317.1	340.6
75°	201.4	212.3	227.6	238.5	252.0
77.5°	144.5	150.9	159.9	168.9	181.6
80°	96.7	99.4	107.5	109.3	119.2
82.5°	58.7	60.5	62.3	63.2	66.8
85°	31.6	31.6	31.6	29.8	29.8
87.5°	18.1	18.1	15.4	12.6	9.0
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)