

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: P555546

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-94-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: P555546
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-40-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

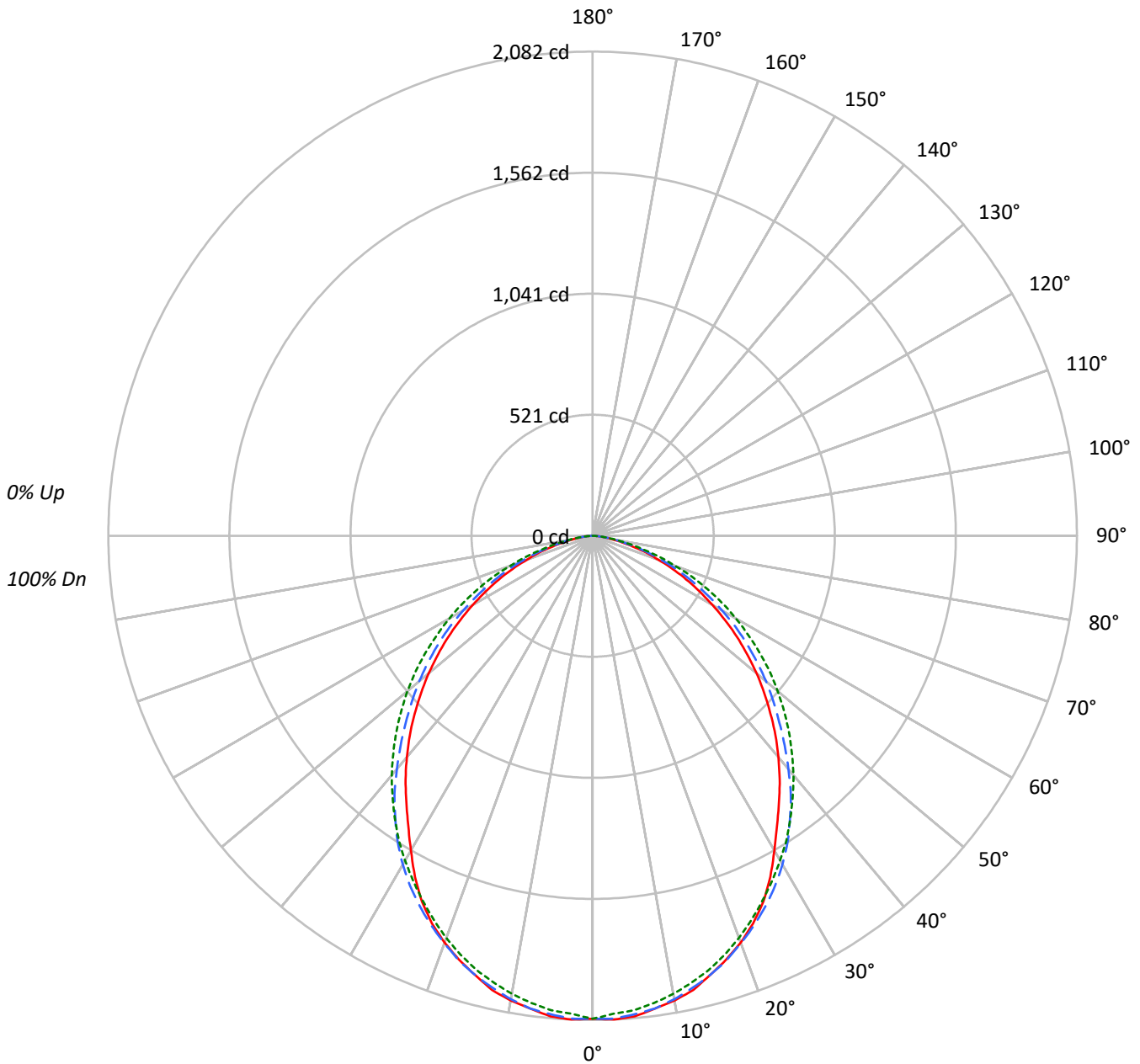
Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11177	11177	11177
5°	11206	11159	11064
10°	11088	11057	10931
15°	10891	10891	10766
20°	10660	10674	10537
25°	10310	10437	10272
30°	9708	10145	10020
35°	9173	9724	9740
40°	8727	9198	9439
45°	8229	8641	9084
50°	7702	8143	8698
55°	7104	7576	8227
60°	6398	6913	7652
65°	5649	6147	6960
70°	4708	5235	5914
75°	3699	4182	4629
80°	2647	2941	3264
85°	1723	1723	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	4.1
10°-20°	549.3	11.4
20°-30°	802.7	16.7
30°-40°	911.2	19.0
40°-50°	879.6	18.3
50°-60°	725.6	15.1
60°-70°	483.2	10.1
70°-80°	216.2	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°	1547.5	32.2
0°-40°	2458.7	51.2
0°-60°	4063.9	84.6
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2074	2074	2066	2054	2048	196
15°	1955	1960	1955	1946	1932	551
25°	1736	1750	1758	1745	1730	795
35°	1396	1415	1480	1488	1482	875
45°	1081	1099	1135	1187	1194	834
55°	757	770	807	852	877	676
65°	444	456	483	517	546	440
75°	178	188	201	211	223	195
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°	2076.7	2076.7	2076.7	2076.7	2076.7
2.5°	2082.3	2083.1	2078.3	2065.6	2057.6
5°	2074.3	2073.5	2065.6	2054.4	2048.0
7.5°	2051.2	2052.8	2050.4	2034.5	2025.7
10°	2028.9	2029.7	2023.3	2010.5	2000.1
12.5°	2000.1	1999.4	1990.6	1984.2	1967.4
15°	1954.7	1959.5	1954.7	1945.9	1932.3
17.5°	1910.8	1910.8	1914.0	1898.8	1888.5
20°	1861.3	1863.7	1863.7	1851.8	1839.8
22.5°	1803.9	1811.1	1813.5	1800.7	1786.3
25°	1736.1	1749.6	1757.6	1744.8	1729.7
27.5°	1653.9	1674.6	1698.6	1689.0	1672.2
30°	1562.1	1592.5	1632.4	1624.4	1612.4
32.5°	1475.2	1505.5	1560.5	1557.4	1551.0
35°	1396.2	1415.3	1480.0	1487.9	1482.4
37.5°	1321.2	1338.8	1399.4	1417.7	1412.9
40°	1242.2	1261.4	1309.2	1341.9	1343.5
42.5°	1164.0	1182.4	1221.5	1268.5	1268.5
45°	1081.1	1099.4	1135.3	1187.2	1193.5
47.5°	999.7	1018.8	1053.9	1105.8	1116.2
50°	919.9	937.4	972.5	1022.8	1038.8
52.5°	836.9	856.1	890.4	936.6	959.8
55°	757.1	769.9	807.4	852.1	876.8
57.5°	674.2	686.1	728.4	766.7	792.2
60°	594.4	609.5	642.2	681.3	710.9
62.5°	517.8	533.7	561.7	596.0	629.5
65°	443.6	455.6	482.7	517.0	546.5
67.5°	371.8	382.2	409.3	433.2	464.3
70°	299.2	312.7	332.7	355.8	375.8
72.5°	240.9	246.5	263.3	280.0	300.8
75°	177.9	187.5	201.1	210.6	222.6
77.5°	127.7	133.2	141.2	149.2	160.4
80°	85.4	87.8	94.9	96.5	105.3
82.5°	51.9	53.5	55.0	55.8	59.0
85°	27.9	27.9	27.9	26.3	26.3
87.5°	16.0	16.0	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)