

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: P555554

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-85-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: P555554
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

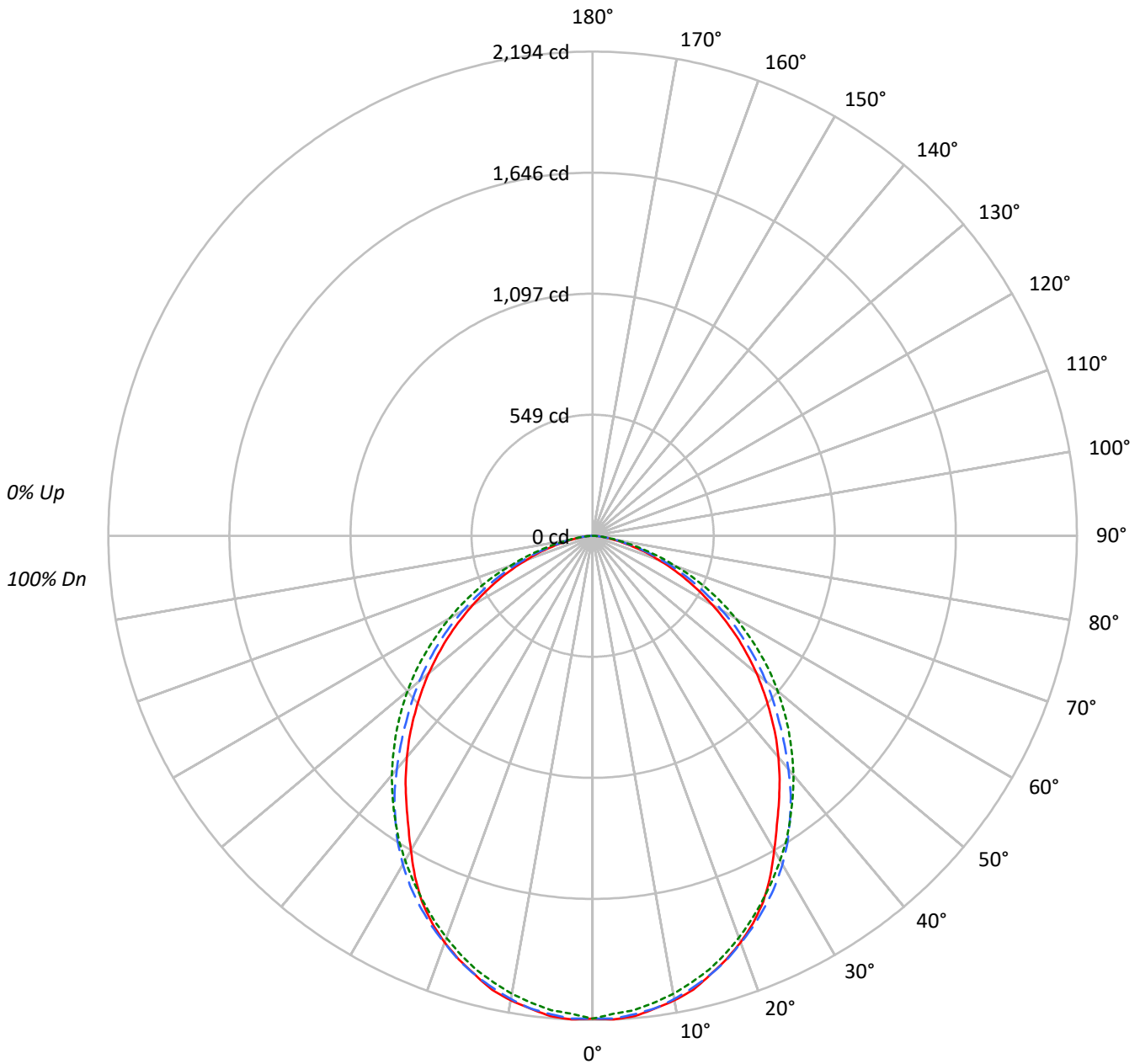
Lumens per Lamp: N/A
Luminaire Lumens: 5059.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	11775	11775	11775
5°	11807	11756	11656
10°	11681	11649	11516
15°	11474	11474	11343
20°	11231	11246	11101
25°	10861	10996	10821
30°	10227	10687	10557
35°	9664	10244	10261
40°	9194	9690	9944
45°	8668	9104	9570
50°	8114	8579	9163
55°	7485	7981	8667
60°	6740	7283	8061
65°	5951	6476	7333
70°	4960	5515	6230
75°	3897	4404	4876
80°	2786	3099	3437
85°	1815	1815	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	4.1
10°-20°	578.7	11.4
20°-30°	845.7	16.7
30°-40°	959.9	19.0
40°-50°	926.7	18.3
50°-60°	764.4	15.1
60°-70°	509.1	10.1
70°-80°	227.8	4.5
80°-90°	40.7	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°	1630.4	32.2
0°-40°	2590.3	51.2
0°-60°	4281.4	84.6
0°-90°	5059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2188	2188	2188	2188	2188	
5°	2185	2184	2176	2164	2158	207
15°	2059	2064	2059	2050	2036	581
25°	1829	1843	1852	1838	1822	838
35°	1471	1491	1559	1568	1562	922
45°	1139	1158	1196	1251	1257	879
55°	798	811	851	898	924	712
65°	467	480	508	545	576	463
75°	187	198	212	222	234	205
85°	29	29	29	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.9	2187.9	2187.9	2187.9	2187.9
2.5°	2193.8	2194.6	2189.6	2176.1	2167.7
5°	2185.4	2184.5	2176.1	2164.4	2157.6
7.5°	2161.0	2162.7	2160.1	2143.3	2134.1
10°	2137.5	2138.3	2131.6	2118.1	2107.2
12.5°	2107.2	2106.4	2097.1	2090.4	2072.7
15°	2059.3	2064.3	2059.3	2050.0	2035.8
17.5°	2013.1	2013.1	2016.4	2000.4	1989.5
20°	1960.9	1963.5	1963.5	1950.9	1938.3
22.5°	1900.4	1908.0	1910.5	1897.1	1881.9
25°	1829.0	1843.3	1851.7	1838.2	1822.3
27.5°	1742.4	1764.3	1789.5	1779.4	1761.7
30°	1645.7	1677.7	1719.7	1711.3	1698.7
32.5°	1554.1	1586.1	1644.1	1640.7	1634.0
35°	1470.9	1491.1	1559.2	1567.6	1561.7
37.5°	1391.9	1410.4	1474.3	1493.6	1488.6
40°	1308.7	1328.9	1379.3	1413.8	1415.4
42.5°	1226.3	1245.7	1286.8	1336.4	1336.4
45°	1138.9	1158.2	1196.1	1250.7	1257.4
47.5°	1053.2	1073.4	1110.3	1165.0	1175.9
50°	969.1	987.6	1024.6	1077.6	1094.4
52.5°	881.7	901.9	938.0	986.8	1011.2
55°	797.7	811.1	850.6	897.7	923.7
57.5°	710.2	722.9	767.4	807.7	834.6
60°	626.2	642.2	676.6	717.8	748.9
62.5°	545.5	562.3	591.7	627.9	663.2
65°	467.3	479.9	508.5	544.7	575.8
67.5°	391.7	402.6	431.2	456.4	489.2
70°	315.2	329.5	350.5	374.9	395.9
72.5°	253.8	259.7	277.4	295.0	316.9
75°	187.4	197.5	211.8	221.9	234.5
77.5°	134.5	140.4	148.8	157.2	168.9
80°	89.9	92.5	100.0	101.7	110.9
82.5°	54.6	56.3	58.0	58.8	62.2
85°	29.4	29.4	29.4	27.7	27.7
87.5°	16.8	16.8	14.3	11.8	8.4
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)