

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: P555596

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-96-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: P555596
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-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

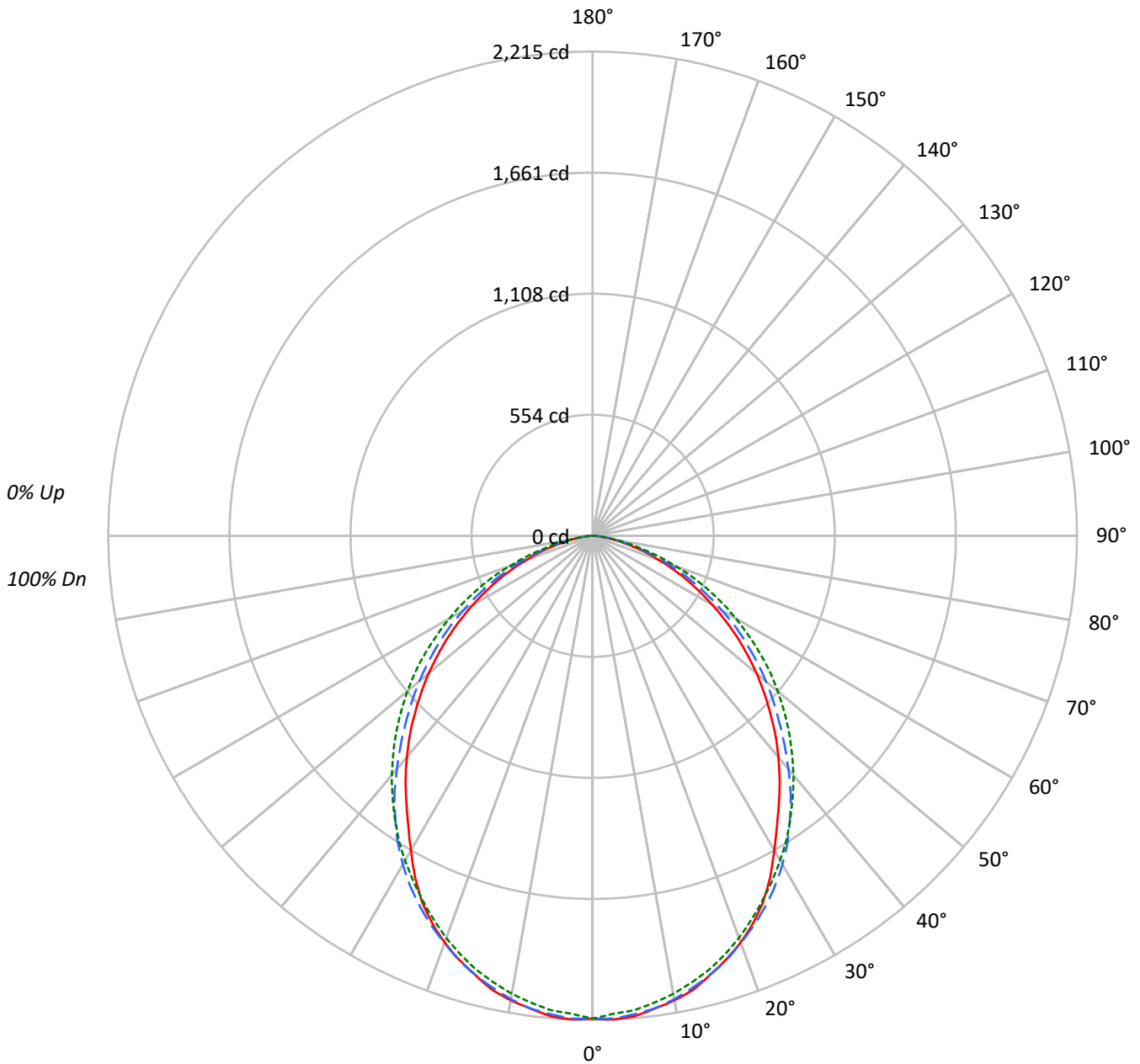
Lumens per Lamp: N/A
Luminaire Lumens: 5108.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11889	11889	11889
5°	11921	11870	11769
10°	11795	11762	11627
15°	11585	11585	11453
20°	11340	11354	11208
25°	10966	11102	10926
30°	10327	10791	10659
35°	9758	10343	10360
40°	9284	9785	10041
45°	8752	9192	9663
50°	8193	8662	9252
55°	7557	8059	8752
60°	6806	7354	8140
65°	6010	6538	7403
70°	5007	5569	6290
75°	3936	4448	4924
80°	2814	3130	3471
85°	1834	1834	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	4.1
10°-20°	584.3	11.4
20°-30°	853.9	16.7
30°-40°	969.2	19.0
40°-50°	935.6	18.3
50°-60°	771.8	15.1
60°-70°	514.0	10.1
70°-80°	230.0	4.5
80°-90°	41.2	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°	1646.2	32.2
0°-40°	2615.4	51.2
0°-60°	4322.9	84.6
0°-90°	5108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2206	2206	2197	2185	2178	209
15°	2079	2084	2079	2070	2056	586
25°	1847	1861	1870	1856	1840	846
35°	1485	1506	1574	1583	1577	931
45°	1150	1170	1208	1263	1270	887
55°	805	819	859	906	933	719
65°	472	485	513	550	581	468
75°	189	199	214	224	237	207
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2209.1	2209.1	2209.1	2209.1	2209.1
2.5°	2215.0	2215.9	2210.8	2197.2	2188.7
5°	2206.5	2205.7	2197.2	2185.3	2178.5
7.5°	2181.9	2183.6	2181.1	2164.1	2154.8
10°	2158.2	2159.0	2152.2	2138.6	2127.6
12.5°	2127.6	2126.8	2117.4	2110.6	2092.8
15°	2079.2	2084.3	2079.2	2069.9	2055.5
17.5°	2032.6	2032.6	2036.0	2019.8	2008.8
20°	1979.9	1982.5	1982.5	1969.8	1957.0
22.5°	1918.8	1926.5	1929.0	1915.4	1900.2
25°	1846.7	1861.1	1869.6	1856.0	1839.9
27.5°	1759.3	1781.4	1806.8	1796.6	1778.8
30°	1661.7	1693.9	1736.4	1727.9	1715.2
32.5°	1569.2	1601.4	1660.0	1656.6	1649.8
35°	1485.2	1505.5	1574.3	1582.8	1576.8
37.5°	1405.4	1424.1	1488.6	1508.1	1503.0
40°	1321.4	1341.7	1392.7	1427.5	1429.2
42.5°	1238.2	1257.7	1299.3	1349.4	1349.4
45°	1149.9	1169.5	1207.7	1262.8	1269.6
47.5°	1063.4	1083.7	1121.1	1176.3	1187.3
50°	978.5	997.2	1034.5	1088.0	1105.0
52.5°	890.3	910.6	947.1	996.3	1020.9
55°	805.4	819.0	858.9	906.4	932.7
57.5°	717.1	729.9	774.8	815.6	842.7
60°	632.3	648.4	683.2	724.8	756.2
62.5°	550.8	567.8	597.5	634.0	669.6
65°	471.9	484.6	513.4	549.9	581.3
67.5°	395.5	406.5	435.4	460.8	493.9
70°	318.2	332.7	353.9	378.5	399.7
72.5°	256.3	262.2	280.1	297.9	319.9
75°	189.3	199.4	213.9	224.0	236.8
77.5°	135.8	141.7	150.2	158.7	170.6
80°	90.8	93.4	101.0	102.7	112.0
82.5°	55.2	56.9	58.6	59.4	62.8
85°	29.7	29.7	29.7	28.0	28.0
87.5°	17.0	17.0	14.4	11.9	8.5
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)