

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: P555457

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-84-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: P555457
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-35-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

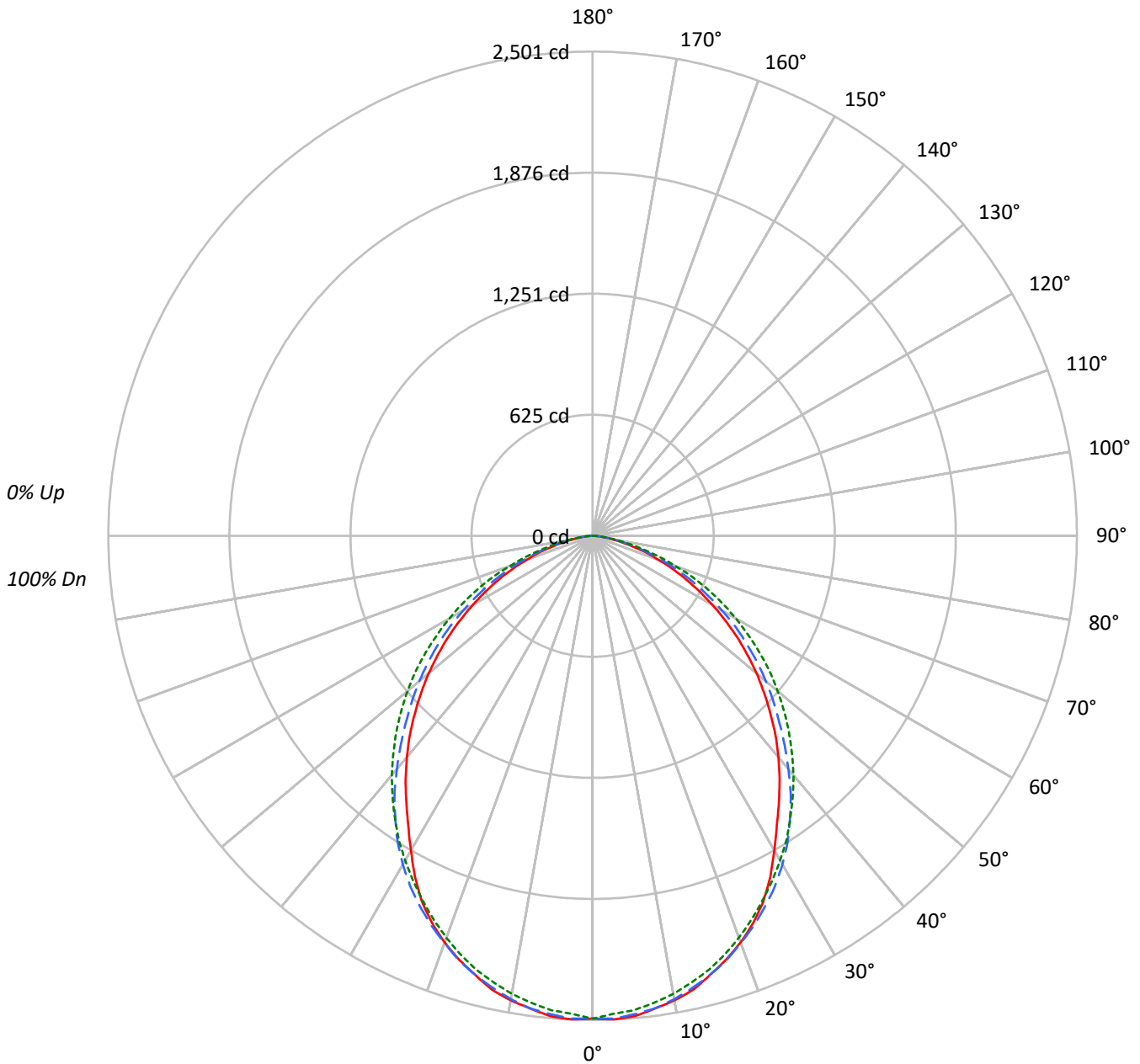
Lumens per Lamp: N/A
Luminaire Lumens: 5767.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13423	13423	13423
5°	13459	13402	13288
10°	13316	13279	13127
15°	13080	13080	12931
20°	12803	12820	12655
25°	12381	12535	12336
30°	11659	12183	12034
35°	11017	11678	11697
40°	10481	11046	11336
45°	9882	10378	10910
50°	9250	9779	10445
55°	8532	9099	9880
60°	7683	8302	9189
65°	6784	7382	8358
70°	5654	6288	7102
75°	4444	5022	5558
80°	3177	3533	3921
85°	2069	2069	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	4.1
10°-20°	659.7	11.4
20°-30°	964.0	16.7
30°-40°	1094.3	19.0
40°-50°	1056.3	18.3
50°-60°	871.4	15.1
60°-70°	580.3	10.1
70°-80°	259.7	4.5
80°-90°	46.5	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°	1858.5	32.2
0°-40°	2952.8	51.2
0°-60°	4880.6	84.6
0°-90°	5767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2491	2490	2481	2467	2460	236
15°	2348	2353	2348	2337	2321	662
25°	2085	2101	2111	2096	2077	955
35°	1677	1700	1777	1787	1780	1051
45°	1298	1320	1364	1426	1433	1002
55°	909	925	970	1023	1053	812
65°	533	547	580	621	656	528
75°	214	225	242	253	267	234
85°	34	34	34	32	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2494.1	2494.1	2494.1	2494.1	2494.1
2.5°	2500.8	2501.7	2496.0	2480.7	2471.1
5°	2491.2	2490.2	2480.7	2467.3	2459.6
7.5°	2463.4	2465.3	2462.5	2443.3	2432.8
10°	2436.6	2437.5	2429.9	2414.6	2402.1
12.5°	2402.1	2401.1	2390.6	2382.9	2362.8
15°	2347.5	2353.2	2347.5	2336.9	2320.7
17.5°	2294.8	2294.8	2298.6	2280.4	2268.0
20°	2235.4	2238.3	2238.3	2223.9	2209.5
22.5°	2166.4	2175.0	2177.9	2162.6	2145.3
25°	2084.9	2101.2	2110.8	2095.5	2077.3
27.5°	1986.3	2011.2	2039.9	2028.4	2008.3
30°	1876.1	1912.5	1960.4	1950.8	1936.4
32.5°	1771.6	1808.0	1874.2	1870.3	1862.7
35°	1676.8	1699.8	1777.4	1787.0	1780.3
37.5°	1586.7	1607.8	1680.6	1702.6	1696.9
40°	1491.8	1514.8	1572.3	1611.6	1613.5
42.5°	1397.9	1420.0	1466.9	1523.5	1523.5
45°	1298.3	1320.3	1363.5	1425.7	1433.4
47.5°	1200.6	1223.6	1265.7	1328.0	1340.5
50°	1104.8	1125.8	1168.0	1228.4	1247.5
52.5°	1005.1	1028.1	1069.3	1124.9	1152.7
55°	909.3	924.6	969.7	1023.3	1053.0
57.5°	809.6	824.0	874.8	920.8	951.4
60°	713.8	732.0	771.3	818.3	853.7
62.5°	621.8	641.0	674.5	715.7	756.0
65°	532.7	547.1	579.7	620.9	656.3
67.5°	446.5	459.0	491.5	520.3	557.6
70°	359.3	375.6	399.6	427.3	451.3
72.5°	289.4	296.1	316.2	336.3	361.2
75°	213.7	225.2	241.5	253.0	267.3
77.5°	153.3	160.0	169.6	179.2	192.6
80°	102.5	105.4	114.0	115.9	126.5
82.5°	62.3	64.2	66.1	67.1	70.9
85°	33.5	33.5	33.5	31.6	31.6
87.5°	19.2	19.2	16.3	13.4	9.6
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)