

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: P555463

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-87-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: P555463
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

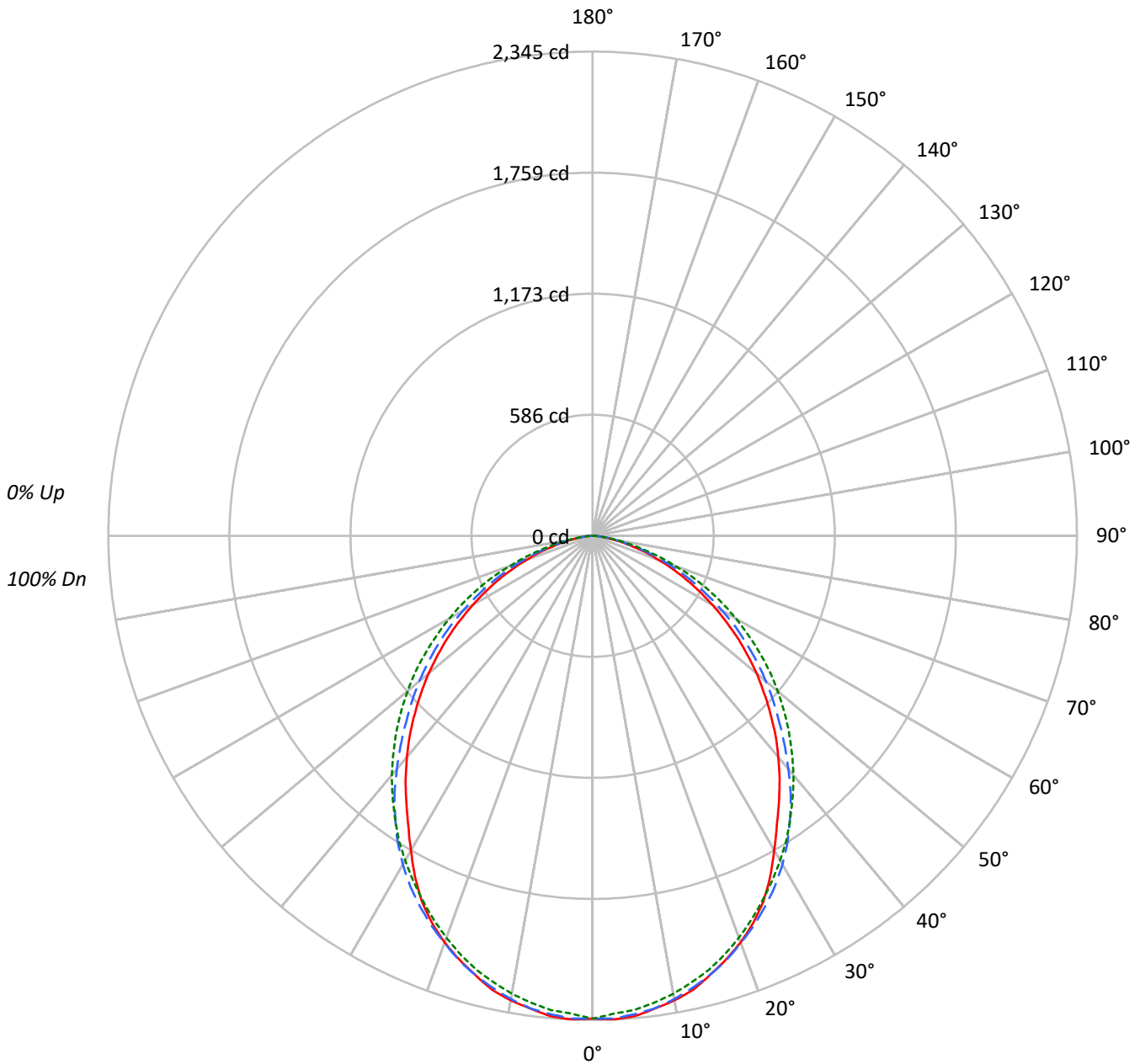
Lumens per Lamp: N/A
Luminaire Lumens: 5407.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12585	12585	12585
5°	12619	12565	12458
10°	12485	12450	12308
15°	12263	12263	12123
20°	12003	12019	11865
25°	11608	11753	11565
30°	10931	11422	11283
35°	10329	10949	10966
40°	9827	10357	10628
45°	9265	9729	10229
50°	8673	9169	9793
55°	7999	8530	9264
60°	7204	7784	8615
65°	6361	6921	7837
70°	5301	5895	6658
75°	4165	4708	5211
80°	2978	3313	3676
85°	1939	1939	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	4.1
10°-20°	618.5	11.4
20°-30°	903.8	16.7
30°-40°	1026.0	19.0
40°-50°	990.4	18.3
50°-60°	817.0	15.1
60°-70°	544.1	10.1
70°-80°	243.5	4.5
80°-90°	43.6	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°	1742.5	32.2
0°-40°	2768.5	51.2
0°-60°	4575.9	84.6
0°-90°	5407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2336	2335	2326	2313	2306	221
15°	2201	2206	2201	2191	2176	620
25°	1955	1970	1979	1965	1948	895
35°	1572	1594	1666	1675	1669	985
45°	1217	1238	1278	1337	1344	939
55°	852	867	909	959	987	761
65°	500	513	544	582	615	495
75°	200	211	226	237	251	219
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2338.4	2338.4	2338.4	2338.4	2338.4
2.5°	2344.7	2345.6	2340.2	2325.8	2316.8
5°	2335.7	2334.8	2325.8	2313.2	2306.0
7.5°	2309.6	2311.4	2308.7	2290.8	2280.9
10°	2284.5	2285.4	2278.2	2263.8	2252.1
12.5°	2252.1	2251.2	2241.4	2234.2	2215.3
15°	2200.9	2206.3	2200.9	2191.1	2175.8
17.5°	2151.5	2151.5	2155.1	2138.1	2126.4
20°	2095.8	2098.5	2098.5	2085.1	2071.6
22.5°	2031.2	2039.2	2041.9	2027.6	2011.4
25°	1954.8	1970.1	1979.1	1964.7	1947.6
27.5°	1862.3	1885.6	1912.6	1901.8	1882.9
30°	1759.0	1793.1	1838.0	1829.0	1815.6
32.5°	1661.0	1695.2	1757.2	1753.6	1746.4
35°	1572.1	1593.7	1666.4	1675.4	1669.1
37.5°	1487.7	1507.4	1575.7	1596.4	1591.0
40°	1398.7	1420.3	1474.2	1511.0	1512.8
42.5°	1310.7	1331.3	1375.4	1428.4	1428.4
45°	1217.3	1237.9	1278.3	1336.7	1343.9
47.5°	1125.6	1147.2	1186.7	1245.1	1256.8
50°	1035.8	1055.6	1095.1	1151.7	1169.6
52.5°	942.4	963.9	1002.6	1054.7	1080.7
55°	852.5	866.9	909.1	959.4	987.3
57.5°	759.1	772.6	820.2	863.3	892.1
60°	669.3	686.3	723.2	767.2	800.4
62.5°	583.0	601.0	632.4	671.1	708.8
65°	499.5	513.0	543.5	582.1	615.4
67.5°	418.6	430.3	460.9	487.8	522.8
70°	336.9	352.2	374.6	400.7	423.1
72.5°	271.3	277.6	296.5	315.3	338.7
75°	200.3	211.1	226.4	237.2	250.6
77.5°	143.7	150.0	159.0	168.0	180.6
80°	96.1	98.8	106.9	108.7	118.6
82.5°	58.4	60.2	62.0	62.9	66.5
85°	31.4	31.4	31.4	29.6	29.6
87.5°	18.0	18.0	15.3	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)