

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: P555469

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-96-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: P555469
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

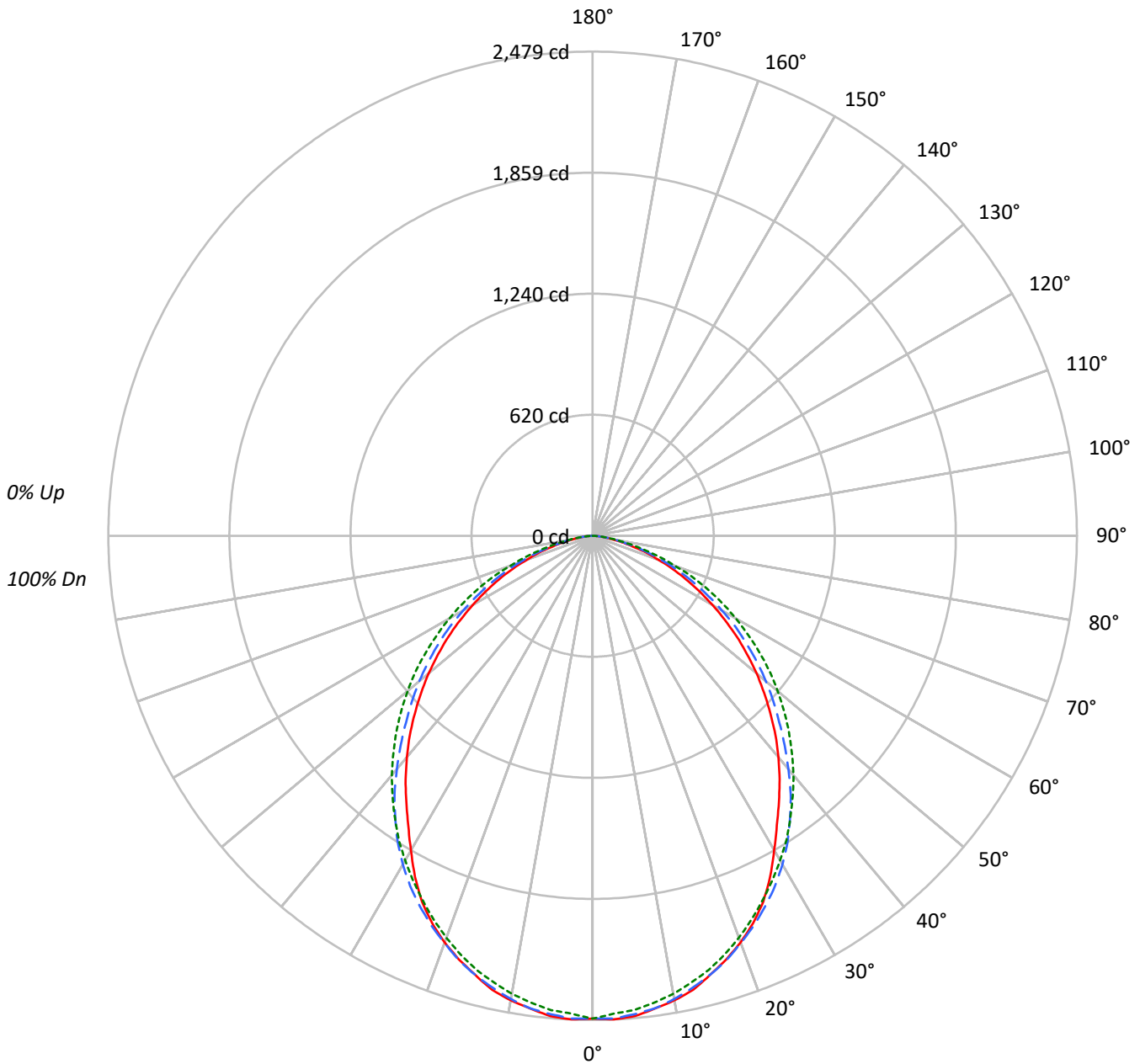
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13304	13304	13304
5°	13340	13283	13170
10°	13198	13162	13012
15°	12964	12964	12816
20°	12690	12706	12543
25°	12272	12424	12226
30°	11556	12075	11928
35°	10919	11575	11593
40°	10389	10949	11236
45°	9794	10286	10813
50°	9168	9693	10353
55°	8456	9018	9793
60°	7615	8229	9108
65°	6724	7317	8284
70°	5604	6231	7039
75°	4404	4976	5510
80°	3149	3502	3887
85°	2050	2050	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.1
10°-20°	653.9	11.4
20°-30°	955.5	16.7
30°-40°	1084.6	19.0
40°-50°	1047.0	18.3
50°-60°	863.7	15.1
60°-70°	575.2	10.1
70°-80°	257.4	4.5
80°-90°	46.0	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°	1842.1	32.2
0°-40°	2926.7	51.2
0°-60°	4837.4	84.6
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2469	2468	2459	2445	2438	234
15°	2327	2332	2327	2316	2300	656
25°	2066	2083	2092	2077	2059	946
35°	1662	1685	1762	1771	1764	1041
45°	1287	1309	1351	1413	1421	993
55°	901	916	961	1014	1044	804
65°	528	542	575	615	650	524
75°	212	223	239	251	265	232
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2478.7	2479.6	2473.9	2458.7	2449.2
5°	2469.2	2468.2	2458.7	2445.4	2437.8
7.5°	2441.6	2443.5	2440.7	2421.7	2411.2
10°	2415.0	2416.0	2408.4	2393.2	2380.9
12.5°	2380.9	2379.9	2369.5	2361.9	2341.9
15°	2326.7	2332.4	2326.7	2316.3	2300.1
17.5°	2274.5	2274.5	2278.3	2260.2	2247.9
20°	2215.6	2218.5	2218.5	2204.2	2190.0
22.5°	2147.2	2155.8	2158.6	2143.4	2126.3
25°	2066.5	2082.7	2092.1	2077.0	2058.9
27.5°	1968.7	1993.4	2021.9	2010.5	1990.5
30°	1859.5	1895.6	1943.0	1933.6	1919.3
32.5°	1756.0	1792.1	1857.6	1853.8	1846.2
35°	1661.9	1684.7	1761.7	1771.2	1764.5
37.5°	1572.7	1593.6	1665.7	1687.6	1681.9
40°	1478.7	1501.4	1558.4	1597.4	1599.3
42.5°	1385.6	1407.4	1454.0	1510.0	1510.0
45°	1286.8	1308.7	1351.4	1413.1	1420.7
47.5°	1190.0	1212.7	1254.5	1316.3	1328.6
50°	1095.0	1115.9	1157.7	1217.5	1236.5
52.5°	996.2	1019.0	1059.8	1114.9	1142.5
55°	901.2	916.4	961.1	1014.3	1043.7
57.5°	802.5	816.7	867.1	912.6	943.0
60°	707.5	725.6	764.5	811.0	846.2
62.5°	616.3	635.3	668.6	709.4	749.3
65°	528.0	542.3	574.6	615.4	650.5
67.5°	442.6	454.9	487.2	515.7	552.7
70°	356.1	372.3	396.0	423.6	447.3
72.5°	286.8	293.5	313.4	333.3	358.0
75°	211.8	223.2	239.3	250.7	265.0
77.5°	151.9	158.6	168.1	177.6	190.9
80°	101.6	104.5	113.0	114.9	125.4
82.5°	61.7	63.6	65.5	66.5	70.3
85°	33.2	33.2	33.2	31.3	31.3
87.5°	19.0	19.0	16.1	13.3	9.5
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)