

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: P555575

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-87-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: P555575
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

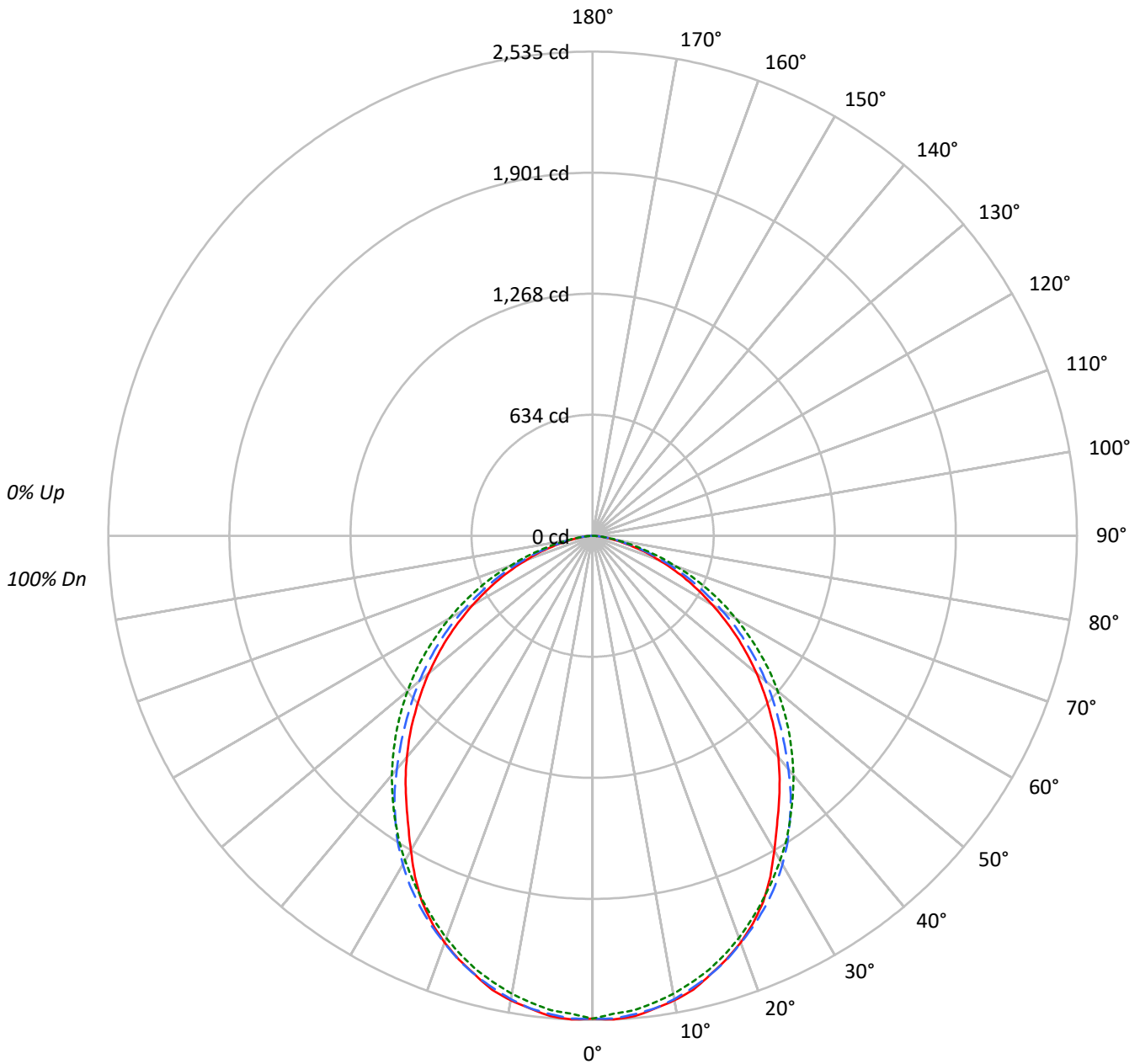
Lumens per Lamp: N/A
Luminaire Lumens: 5846.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13607	13607	13607
5°	13643	13585	13470
10°	13499	13461	13307
15°	13259	13259	13107
20°	12978	12995	12828
25°	12551	12706	12504
30°	11819	12350	12199
35°	11167	11837	11857
40°	10625	11198	11491
45°	10017	10519	11059
50°	9377	9913	10588
55°	8648	9223	10016
60°	7789	8416	9315
65°	6877	7483	8472
70°	5731	6373	7199
75°	4504	5090	5635
80°	3220	3583	3973
85°	2100	2100	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	4.1
10°-20°	668.7	11.4
20°-30°	977.2	16.7
30°-40°	1109.3	19.0
40°-50°	1070.8	18.3
50°-60°	883.4	15.1
60°-70°	588.2	10.1
70°-80°	263.2	4.5
80°-90°	47.1	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°	1884.0	32.2
0°-40°	2993.3	51.2
0°-60°	4947.4	84.6
0°-90°	5846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2528	2528	2528	2528	2528	
5°	2525	2524	2515	2501	2493	239
15°	2380	2386	2380	2369	2352	671
25°	2114	2130	2140	2124	2106	968
35°	1700	1723	1802	1811	1805	1065
45°	1316	1338	1382	1445	1453	1015
55°	922	937	983	1037	1067	823
65°	540	555	588	629	665	535
75°	217	228	245	256	271	237
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2535.0	2536.0	2530.2	2514.6	2504.9
5°	2525.3	2524.4	2514.6	2501.0	2493.3
7.5°	2497.2	2499.1	2496.2	2476.8	2466.1
10°	2470.0	2470.9	2463.2	2447.6	2435.0
12.5°	2435.0	2434.0	2423.3	2415.6	2395.2
15°	2379.6	2385.5	2379.6	2369.0	2352.4
17.5°	2326.2	2326.2	2330.1	2311.6	2299.0
20°	2266.0	2268.9	2268.9	2254.3	2239.8
22.5°	2196.1	2204.8	2207.7	2192.2	2174.7
25°	2113.5	2130.0	2139.7	2124.2	2105.7
27.5°	2013.5	2038.7	2067.9	2056.2	2035.8
30°	1901.8	1938.7	1987.2	1977.5	1963.0
32.5°	1795.9	1832.8	1899.8	1895.9	1888.2
35°	1699.7	1723.1	1801.7	1811.4	1804.6
37.5°	1608.4	1629.8	1703.6	1726.0	1720.1
40°	1512.3	1535.6	1593.9	1633.7	1635.6
42.5°	1417.1	1439.4	1487.0	1544.3	1544.3
45°	1316.1	1338.4	1382.1	1445.3	1453.0
47.5°	1217.0	1240.3	1283.1	1346.2	1358.8
50°	1119.9	1141.3	1184.0	1245.2	1264.6
52.5°	1018.9	1042.2	1083.9	1140.3	1168.5
55°	921.7	937.3	982.9	1037.3	1067.4
57.5°	820.7	835.3	886.8	933.4	964.5
60°	723.6	742.1	781.9	829.5	865.4
62.5°	630.4	649.8	683.8	725.5	766.3
65°	540.0	554.6	587.6	629.4	665.3
67.5°	452.6	465.2	498.3	527.4	565.3
70°	364.2	380.7	405.0	433.2	457.5
72.5°	293.3	300.1	320.5	340.9	366.2
75°	216.6	228.3	244.8	256.4	271.0
77.5°	155.4	162.2	171.9	181.6	195.2
80°	103.9	106.8	115.6	117.5	128.2
82.5°	63.1	65.1	67.0	68.0	71.9
85°	34.0	34.0	34.0	32.1	32.1
87.5°	19.4	19.4	16.5	13.6	9.7
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)