

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: P553991

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-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: P553991
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-LD4-1HI-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

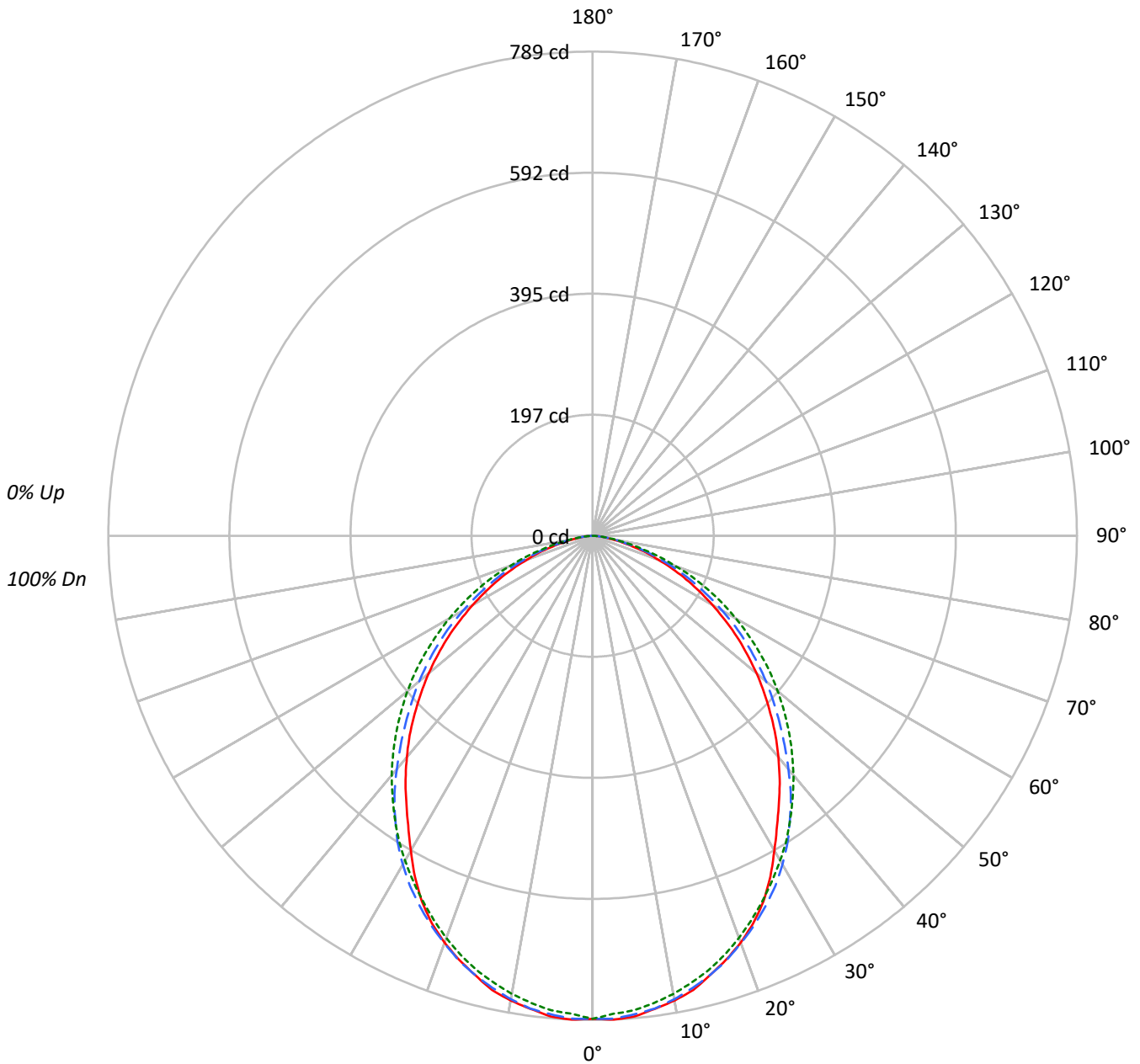
Lumens per Lamp: N/A
Luminaire Lumens: 1820.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

TEST NUMBER: P553991

CATALOG NUMBER: FUSL-12-2-LD4-1HI-40-UNV-81-87-EDD

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°	4236	4236	4236
5°	4247	4230	4193
10°	4203	4191	4143
15°	4128	4128	4081
20°	4041	4046	3994
25°	3907	3956	3893
30°	3680	3845	3798
35°	3477	3685	3691
40°	3308	3486	3577
45°	3118	3275	3443
50°	2919	3086	3296
55°	2693	2871	3118
60°	2425	2620	2900
65°	2141	2329	2637
70°	1784	1984	2241
75°	1402	1585	1755
80°	1004	1116	1237
85°	655	655	618



TEST NUMBER: P553991

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	4.1
10°-20°	208.2	11.4
20°-30°	304.2	16.7
30°-40°	345.3	19.0
40°-50°	333.4	18.3
50°-60°	275.0	15.1
60°-70°	183.1	10.1
70°-80°	81.9	4.5
80°-90°	14.7	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°	586.5	32.2
0°-40°	931.9	51.2
0°-60°	1540.2	84.6
0°-90°	1820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	786	786	783	779	776	74
15°	741	743	741	738	732	209
25°	658	663	666	661	656	301
35°	529	536	561	564	562	332
45°	410	417	430	450	452	316
55°	287	292	306	323	332	256
65°	168	173	183	196	207	167
75°	67	71	76	80	84	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.1	787.1	787.1	787.1	787.1
2.5°	789.2	789.5	787.7	782.9	779.8
5°	786.2	785.9	782.9	778.6	776.2
7.5°	777.4	778.0	777.1	771.1	767.8
10°	769.0	769.3	766.8	762.0	758.1
12.5°	758.1	757.8	754.4	752.0	745.7
15°	740.8	742.7	740.8	737.5	732.4
17.5°	724.2	724.2	725.4	719.7	715.7
20°	705.5	706.4	706.4	701.8	697.3
22.5°	683.7	686.4	687.3	682.5	677.0
25°	658.0	663.1	666.1	661.3	655.6
27.5°	626.8	634.7	643.8	640.1	633.8
30°	592.1	603.6	618.7	615.7	611.1
32.5°	559.1	570.6	591.5	590.3	587.8
35°	529.2	536.4	560.9	563.9	561.8
37.5°	500.7	507.4	530.4	537.3	535.5
40°	470.8	478.1	496.2	508.6	509.2
42.5°	441.2	448.1	462.9	480.8	480.8
45°	409.7	416.7	430.3	449.9	452.4
47.5°	378.9	386.1	399.4	419.1	423.0
50°	348.6	355.3	368.6	387.7	393.7
52.5°	317.2	324.5	337.5	355.0	363.8
55°	287.0	291.8	306.0	322.9	332.3
57.5°	255.5	260.0	276.1	290.6	300.3
60°	225.3	231.0	243.4	258.2	269.4
62.5°	196.2	202.3	212.9	225.9	238.6
65°	168.1	172.7	182.9	195.9	207.1
67.5°	140.9	144.8	155.1	164.2	176.0
70°	113.4	118.5	126.1	134.9	142.4
72.5°	91.3	93.4	99.8	106.1	114.0
75°	67.4	71.1	76.2	79.8	84.4
77.5°	48.4	50.5	53.5	56.5	60.8
80°	32.4	33.3	36.0	36.6	39.9
82.5°	19.7	20.3	20.9	21.2	22.4
85°	10.6	10.6	10.6	10.0	10.0
87.5°	6.0	6.0	5.1	4.2	3.0
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)