

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: P554060

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-81-96-EDD-90**

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: P554060
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-50-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

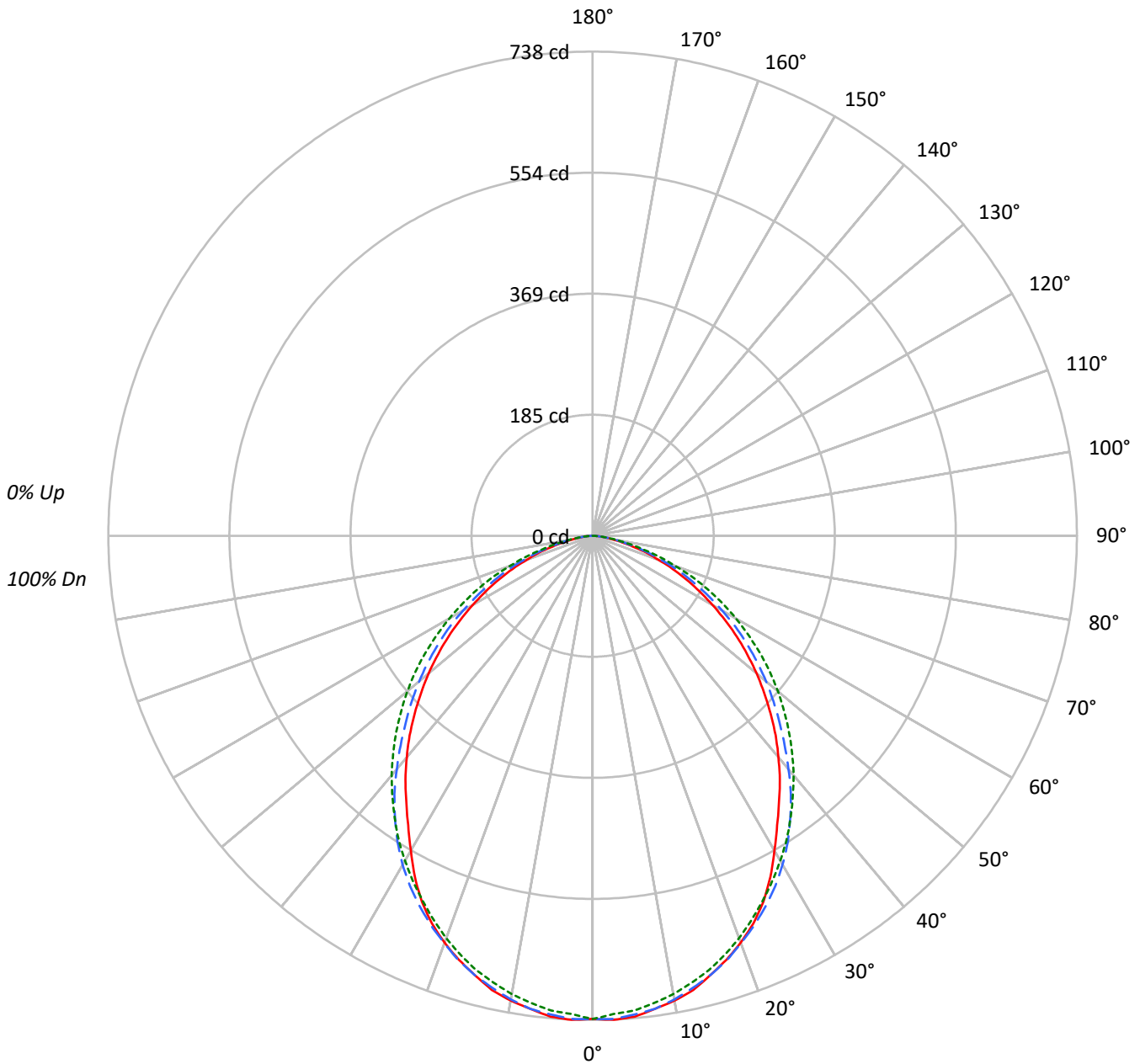
Lumens per Lamp: N/A
Luminaire Lumens: 1703.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554060

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554060

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-96-EDD-90

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°	3964	3964	3964
5°	3975	3957	3924
10°	3932	3921	3876
15°	3862	3862	3818
20°	3781	3786	3737
25°	3656	3701	3643
30°	3443	3598	3553
35°	3254	3449	3454
40°	3095	3262	3348
45°	2918	3064	3222
50°	2731	2888	3085
55°	2519	2686	2918
60°	2269	2452	2714
65°	2003	2180	2468
70°	1670	1857	2098
75°	1312	1483	1641
80°	939	1044	1156
85°	611	611	574



TEST NUMBER: P554060

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	4.1
10°-20°	194.8	11.4
20°-30°	284.7	16.7
30°-40°	323.1	19.0
40°-50°	311.9	18.3
50°-60°	257.3	15.1
60°-70°	171.4	10.1
70°-80°	76.7	4.5
80°-90°	13.7	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°	548.8	32.2
0°-40°	872.0	51.2
0°-60°	1441.2	84.6
0°-90°	1703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	736	735	732	729	726	70
15°	693	695	693	690	685	195
25°	616	620	623	619	613	282
35°	495	502	525	528	526	310
45°	383	390	403	421	423	296
55°	268	273	286	302	311	240
65°	157	162	171	183	194	156
75°	63	66	71	75	79	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



TEST NUMBER: P554060

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-81-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.5	736.5	736.5	736.5	736.5
2.5°	738.5	738.8	737.1	732.5	729.7
5°	735.7	735.4	732.5	728.6	726.3
7.5°	727.4	728.0	727.2	721.5	718.4
10°	719.5	719.8	717.5	713.0	709.3
12.5°	709.3	709.1	705.9	703.7	697.7
15°	693.2	694.9	693.2	690.1	685.3
17.5°	677.7	677.7	678.8	673.4	669.7
20°	660.1	661.0	661.0	656.7	652.5
22.5°	639.7	642.3	643.1	638.6	633.5
25°	615.7	620.5	623.3	618.8	613.4
27.5°	586.5	593.9	602.4	599.0	593.1
30°	554.0	564.8	578.9	576.1	571.8
32.5°	523.2	533.9	553.4	552.3	550.0
35°	495.2	501.9	524.9	527.7	525.7
37.5°	468.6	474.8	496.3	502.8	501.1
40°	440.5	447.3	464.3	475.9	476.5
42.5°	412.8	419.3	433.2	449.9	449.9
45°	383.4	389.9	402.6	421.0	423.3
47.5°	354.5	361.3	373.8	392.2	395.8
50°	326.2	332.5	344.9	362.7	368.4
52.5°	296.8	303.6	315.8	332.2	340.4
55°	268.5	273.0	286.3	302.2	311.0
57.5°	239.1	243.3	258.3	271.9	281.0
60°	210.8	216.2	227.8	241.6	252.1
62.5°	183.6	189.3	199.2	211.4	223.2
65°	157.3	161.6	171.2	183.3	193.8
67.5°	131.9	135.5	145.2	153.6	164.7
70°	106.1	110.9	118.0	126.2	133.3
72.5°	85.4	87.4	93.4	99.3	106.7
75°	63.1	66.5	71.3	74.7	78.9
77.5°	45.3	47.3	50.1	52.9	56.9
80°	30.3	31.1	33.7	34.2	37.3
82.5°	18.4	19.0	19.5	19.8	20.9
85°	9.9	9.9	9.9	9.3	9.3
87.5°	5.7	5.7	4.8	4.0	2.8
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)