

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: P555018

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-94-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: P555018
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-LD4-2LO-40-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

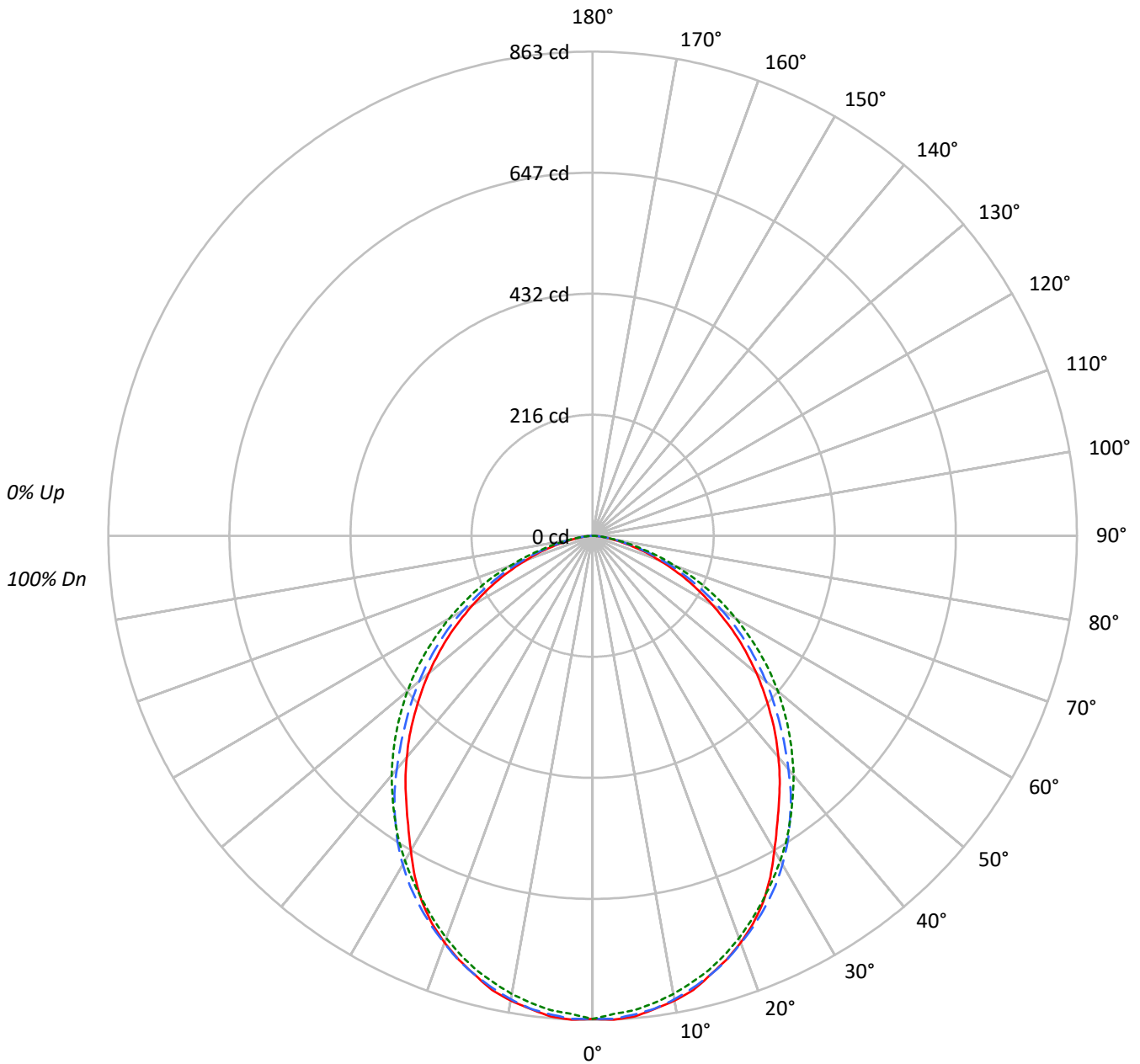
Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P555018

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-81-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555018

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-81-94-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°	4634	4634	4634
5°	4647	4627	4587
10°	4597	4585	4532
15°	4515	4515	4464
20°	4420	4426	4369
25°	4274	4327	4259
30°	4025	4206	4154
35°	3803	4031	4038
40°	3618	3814	3914
45°	3411	3583	3767
50°	3193	3376	3606
55°	2945	3141	3411
60°	2652	2866	3172
65°	2342	2548	2886
70°	1951	2170	2452
75°	1535	1734	1919
80°	1097	1221	1354
85°	716	716	673



TEST NUMBER: P555018

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-81-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	4.1
10°-20°	227.8	11.4
20°-30°	332.8	16.7
30°-40°	377.8	19.0
40°-50°	364.7	18.3
50°-60°	300.8	15.1
60°-70°	200.3	10.1
70°-80°	89.7	4.5
80°-90°	16.0	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°	641.6	32.2
0°-40°	1019.4	51.2
0°-60°	1685.0	84.6
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	860	856	852	849	81
15°	810	812	810	807	801	228
25°	720	725	729	723	717	330
35°	579	587	614	617	615	363
45°	448	456	471	492	495	346
55°	314	319	335	353	364	280
65°	184	189	200	214	227	182
75°	74	78	83	87	92	81
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P555018

CATALOG NUMBER: FUSL-12-2-LD4-2LO-40-UNV-81-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	863.4	863.7	861.7	856.4	853.1
5°	860.1	859.7	856.4	851.8	849.1
7.5°	850.5	851.1	850.1	843.5	839.9
10°	841.2	841.5	838.9	833.6	829.3
12.5°	829.3	829.0	825.3	822.7	815.7
15°	810.4	812.4	810.4	806.8	801.2
17.5°	792.3	792.3	793.6	787.3	783.0
20°	771.7	772.7	772.7	767.8	762.8
22.5°	747.9	750.9	751.9	746.6	740.6
25°	719.8	725.4	728.7	723.4	717.2
27.5°	685.7	694.3	704.3	700.3	693.3
30°	647.7	660.3	676.8	673.5	668.5
32.5°	611.6	624.2	647.0	645.7	643.1
35°	578.9	586.8	613.6	616.9	614.6
37.5°	547.8	555.1	580.2	587.8	585.8
40°	515.0	523.0	542.8	556.4	557.1
42.5°	482.6	490.2	506.4	526.0	526.0
45°	448.2	455.8	470.7	492.2	494.9
47.5°	414.5	422.4	437.0	458.5	462.8
50°	381.4	388.7	403.2	424.1	430.7
52.5°	347.0	354.9	369.2	388.4	397.9
55°	313.9	319.2	334.8	353.3	363.5
57.5°	279.5	284.5	302.0	317.9	328.5
60°	246.4	252.7	266.3	282.5	294.7
62.5°	214.7	221.3	232.9	247.1	261.0
65°	183.9	188.9	200.1	214.4	226.6
67.5°	154.1	158.5	169.7	179.6	192.5
70°	124.0	129.7	137.9	147.5	155.8
72.5°	99.9	102.2	109.2	116.1	124.7
75°	73.8	77.7	83.4	87.3	92.3
77.5°	52.9	55.2	58.6	61.9	66.5
80°	35.4	36.4	39.4	40.0	43.7
82.5°	21.5	22.2	22.8	23.2	24.5
85°	11.6	11.6	11.6	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)