

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: P554094

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-93-97-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: P554094
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-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

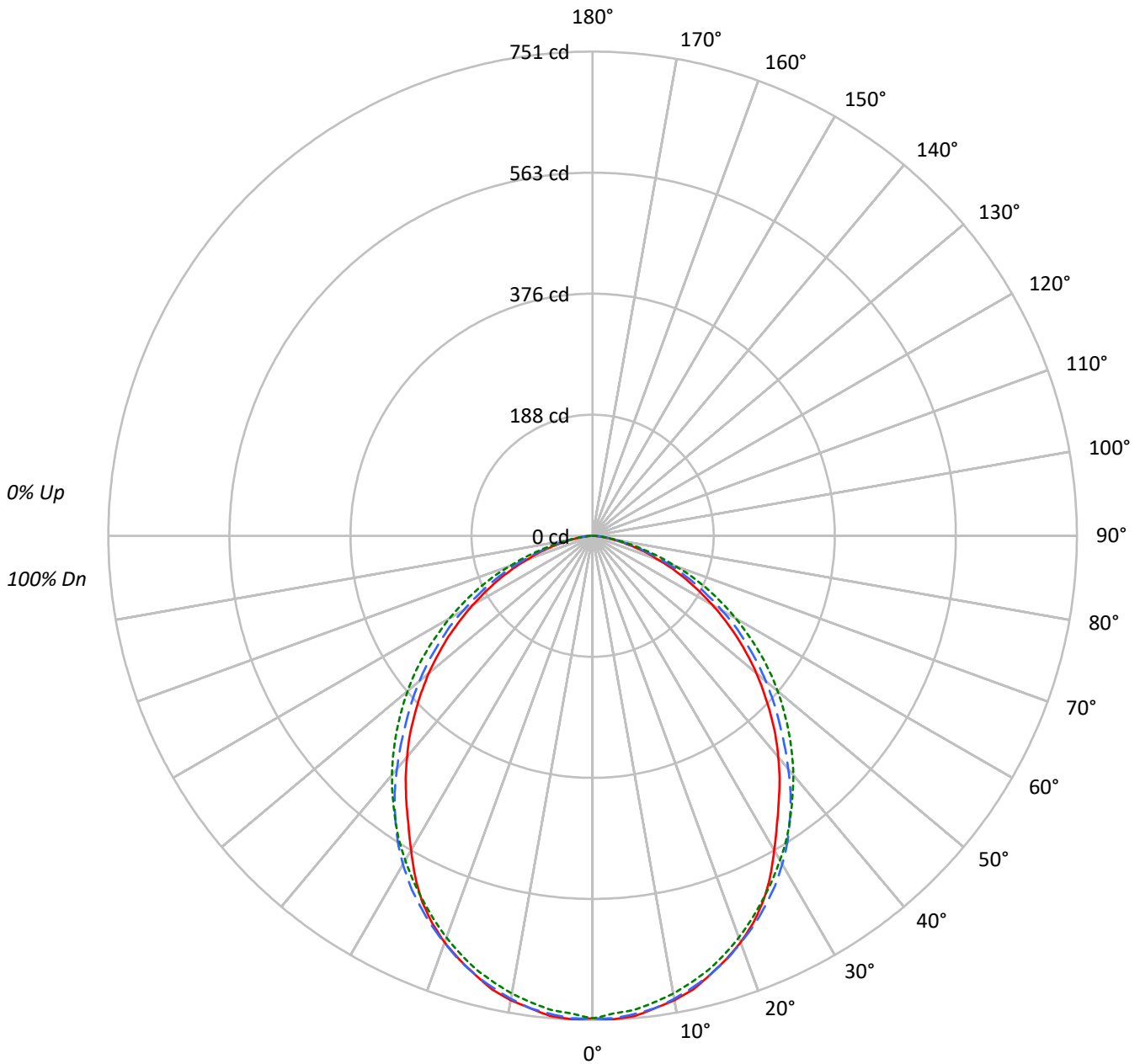
Lumens per Lamp: N/A
Luminaire Lumens: 1731.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554094

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-93-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554094

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-93-97-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°	4029	4029	4029
5°	4040	4023	3989
10°	3997	3986	3940
15°	3926	3926	3881
20°	3843	3848	3798
25°	3716	3763	3703
30°	3499	3657	3612
35°	3307	3505	3511
40°	3146	3315	3403
45°	2966	3115	3274
50°	2776	2936	3136
55°	2561	2730	2966
60°	2307	2492	2758
65°	2036	2216	2509
70°	1696	1887	2132
75°	1333	1508	1668
80°	955	1060	1178
85°	624	624	587



TEST NUMBER: P554094

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-93-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	4.1
10°-20°	198.0	11.4
20°-30°	289.4	16.7
30°-40°	328.5	19.0
40°-50°	317.1	18.3
50°-60°	261.6	15.1
60°-70°	174.2	10.1
70°-80°	77.9	4.5
80°-90°	14.0	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°	557.8	32.2
0°-40°	886.3	51.2
0°-60°	1464.9	84.6
0°-90°	1731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	748	748	745	741	738	71
15°	705	706	705	701	697	199
25°	626	631	634	629	624	287
35°	503	510	534	536	534	315
45°	390	396	409	428	430	301
55°	273	278	291	307	316	244
65°	160	164	174	186	197	159
75°	64	68	72	76	80	70
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



TEST NUMBER: P554094

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-93-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.6	748.6	748.6	748.6	748.6
2.5°	750.6	750.9	749.2	744.6	741.7
5°	747.8	747.5	744.6	740.6	738.3
7.5°	739.4	740.0	739.1	733.4	730.2
10°	731.4	731.6	729.3	724.7	721.0
12.5°	721.0	720.7	717.6	715.3	709.2
15°	704.6	706.3	704.6	701.4	696.6
17.5°	688.8	688.8	689.9	684.5	680.7
20°	671.0	671.8	671.8	667.5	663.2
22.5°	650.3	652.8	653.7	649.1	643.9
25°	625.8	630.7	633.6	629.0	623.5
27.5°	596.2	603.7	612.3	608.8	602.8
30°	563.1	574.0	588.4	585.5	581.2
32.5°	531.8	542.7	562.5	561.4	559.1
35°	503.3	510.2	533.5	536.4	534.4
37.5°	476.3	482.6	504.4	511.1	509.3
40°	447.8	454.7	471.9	483.7	484.3
42.5°	419.6	426.2	440.3	457.3	457.3
45°	389.7	396.3	409.2	427.9	430.2
47.5°	360.4	367.3	379.9	398.6	402.3
50°	331.6	337.9	350.6	368.7	374.5
52.5°	301.7	308.6	321.0	337.6	346.0
55°	272.9	277.5	291.0	307.2	316.1
57.5°	243.0	247.3	262.6	276.4	285.6
60°	214.3	219.7	231.5	245.6	256.2
62.5°	186.6	192.4	202.5	214.8	226.9
65°	159.9	164.2	174.0	186.4	197.0
67.5°	134.0	137.8	147.5	156.2	167.4
70°	107.8	112.7	119.9	128.3	135.5
72.5°	86.9	88.9	94.9	100.9	108.4
75°	64.1	67.6	72.5	75.9	80.2
77.5°	46.0	48.0	50.9	53.8	57.8
80°	30.8	31.6	34.2	34.8	38.0
82.5°	18.7	19.3	19.8	20.1	21.3
85°	10.1	10.1	10.1	9.5	9.5
87.5°	5.8	5.8	4.9	4.0	2.9
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)