

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: P553934

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-97-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: P553934
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-35-UNV-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

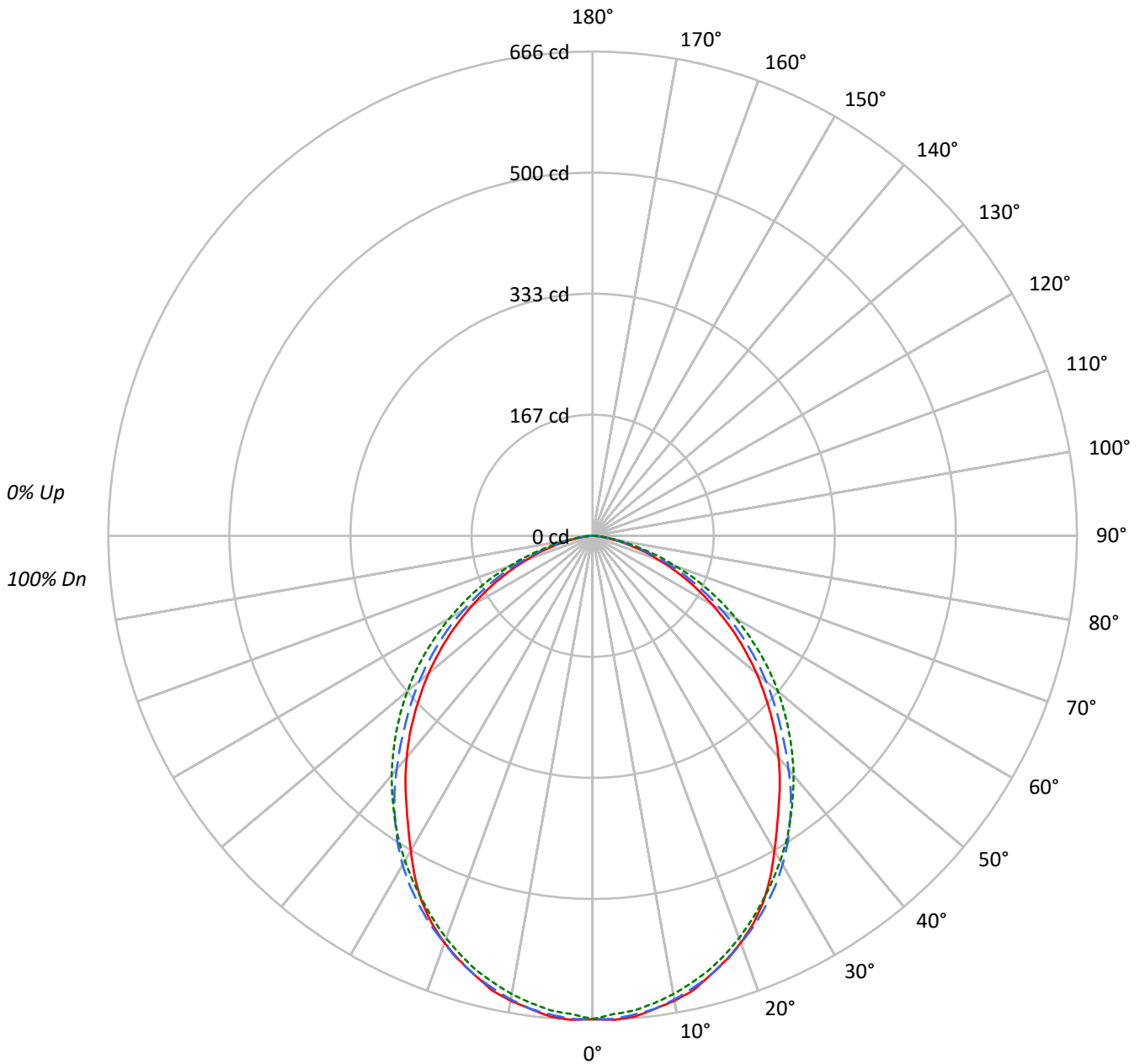
Lumens per Lamp: N/A
Luminaire Lumens: 1537.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P553934

CATALOG NUMBER: FUSL-12-2-LD4-1HI-35-UNV-81-97-EDD-90

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°	3577	3577	3577
5°	3587	3572	3541
10°	3549	3539	3499
15°	3486	3486	3446
20°	3412	3416	3373
25°	3300	3341	3287
30°	3107	3247	3207
35°	2936	3112	3118
40°	2793	2944	3021
45°	2633	2766	2907
50°	2465	2606	2784
55°	2274	2425	2633
60°	2047	2213	2449
65°	1808	1968	2227
70°	1507	1676	1893
75°	1183	1339	1481
80°	846	942	1044
85°	550	550	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	4.1
10°-20°	175.8	11.4
20°-30°	256.9	16.7
30°-40°	291.6	19.0
40°-50°	281.5	18.3
50°-60°	232.2	15.1
60°-70°	154.7	10.1
70°-80°	69.2	4.5
80°-90°	12.4	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°	495.3	32.2
0°-40°	787.0	51.2
0°-60°	1300.7	84.6
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	664	664	661	658	656	63
15°	626	627	626	623	618	176
25°	556	560	563	558	554	254
35°	447	453	474	476	474	280
45°	346	352	363	380	382	267
55°	242	246	258	273	281	216
65°	142	146	154	166	175	141
75°	57	60	64	67	71	62
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.7	664.7	664.7	664.7	664.7
2.5°	666.5	666.8	665.2	661.1	658.6
5°	663.9	663.7	661.1	657.6	655.5
7.5°	656.5	657.1	656.3	651.2	648.4
10°	649.4	649.6	647.6	643.5	640.2
12.5°	640.2	639.9	637.1	635.1	629.7
15°	625.6	627.2	625.6	622.8	618.5
17.5°	611.6	611.6	612.6	607.8	604.4
20°	595.8	596.5	596.5	592.7	588.9
22.5°	577.4	579.7	580.4	576.4	571.8
25°	555.7	560.0	562.6	558.5	553.6
27.5°	529.4	536.0	543.7	540.6	535.2
30°	500.0	509.7	522.5	519.9	516.1
32.5°	472.2	481.9	499.5	498.5	496.4
35°	446.9	453.0	473.7	476.3	474.5
37.5°	422.9	428.5	447.9	453.8	452.2
40°	397.6	403.7	419.1	429.5	430.0
42.5°	372.6	378.4	391.0	406.0	406.0
45°	346.0	351.9	363.4	380.0	382.0
47.5°	320.0	326.1	337.3	353.9	357.3
50°	294.4	300.1	311.3	327.4	332.5
52.5°	267.9	274.0	285.0	299.8	307.2
55°	242.3	246.4	258.4	272.7	280.6
57.5°	215.8	219.6	233.1	245.4	253.6
60°	190.2	195.1	205.6	218.1	227.5
62.5°	165.7	170.8	179.8	190.8	201.5
65°	142.0	145.8	154.5	165.5	174.9
67.5°	119.0	122.3	131.0	138.7	148.6
70°	95.8	100.1	106.5	113.9	120.3
72.5°	77.1	78.9	84.3	89.6	96.3
75°	56.9	60.0	64.4	67.4	71.2
77.5°	40.9	42.6	45.2	47.8	51.3
80°	27.3	28.1	30.4	30.9	33.7
82.5°	16.6	17.1	17.6	17.9	18.9
85°	8.9	8.9	8.9	8.4	8.4
87.5°	5.1	5.1	4.3	3.6	2.6
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)