



INSTALLATION MANUAL

SAMSON™

LED Landing/Taxi/WigWag Light

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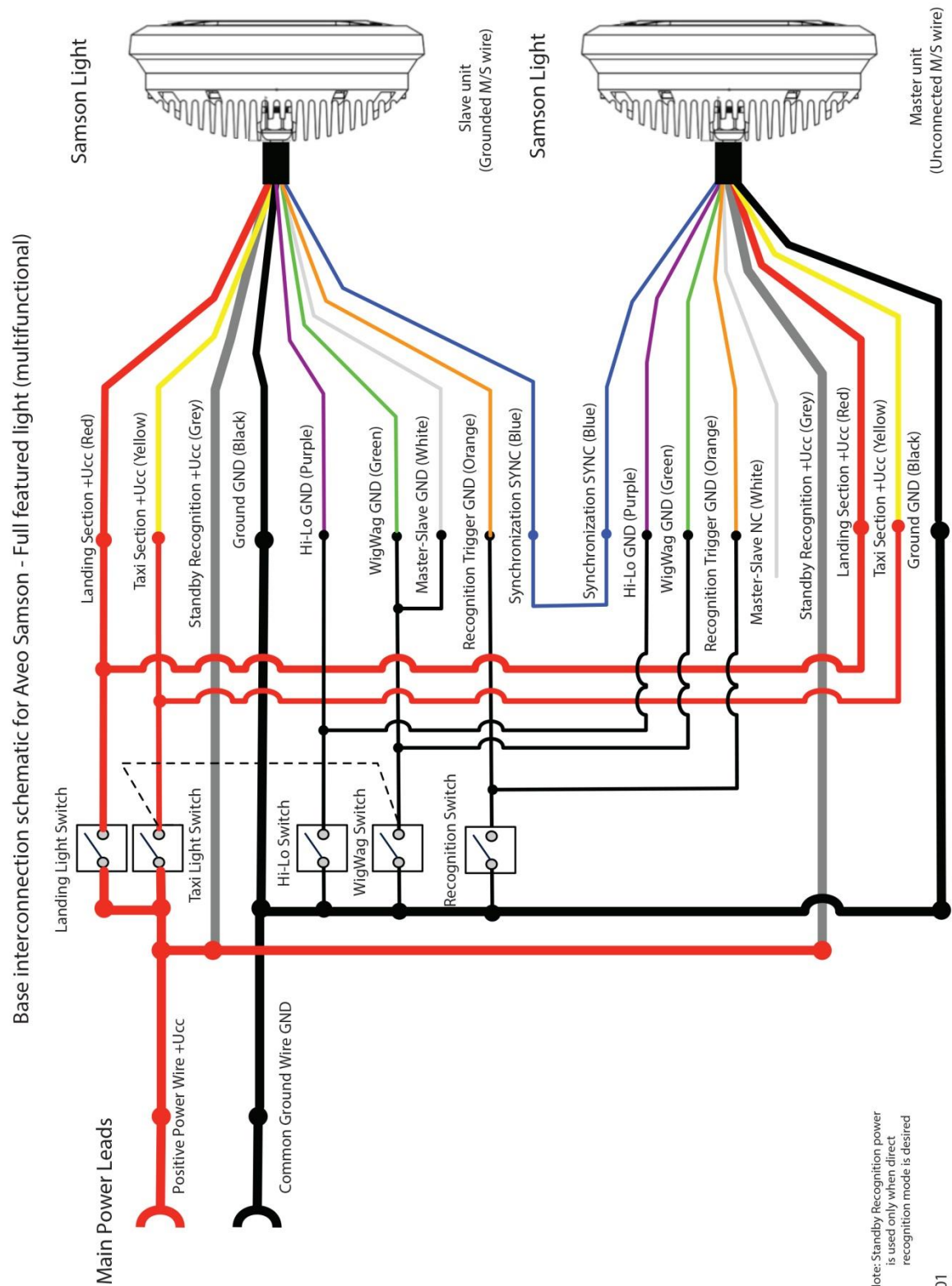
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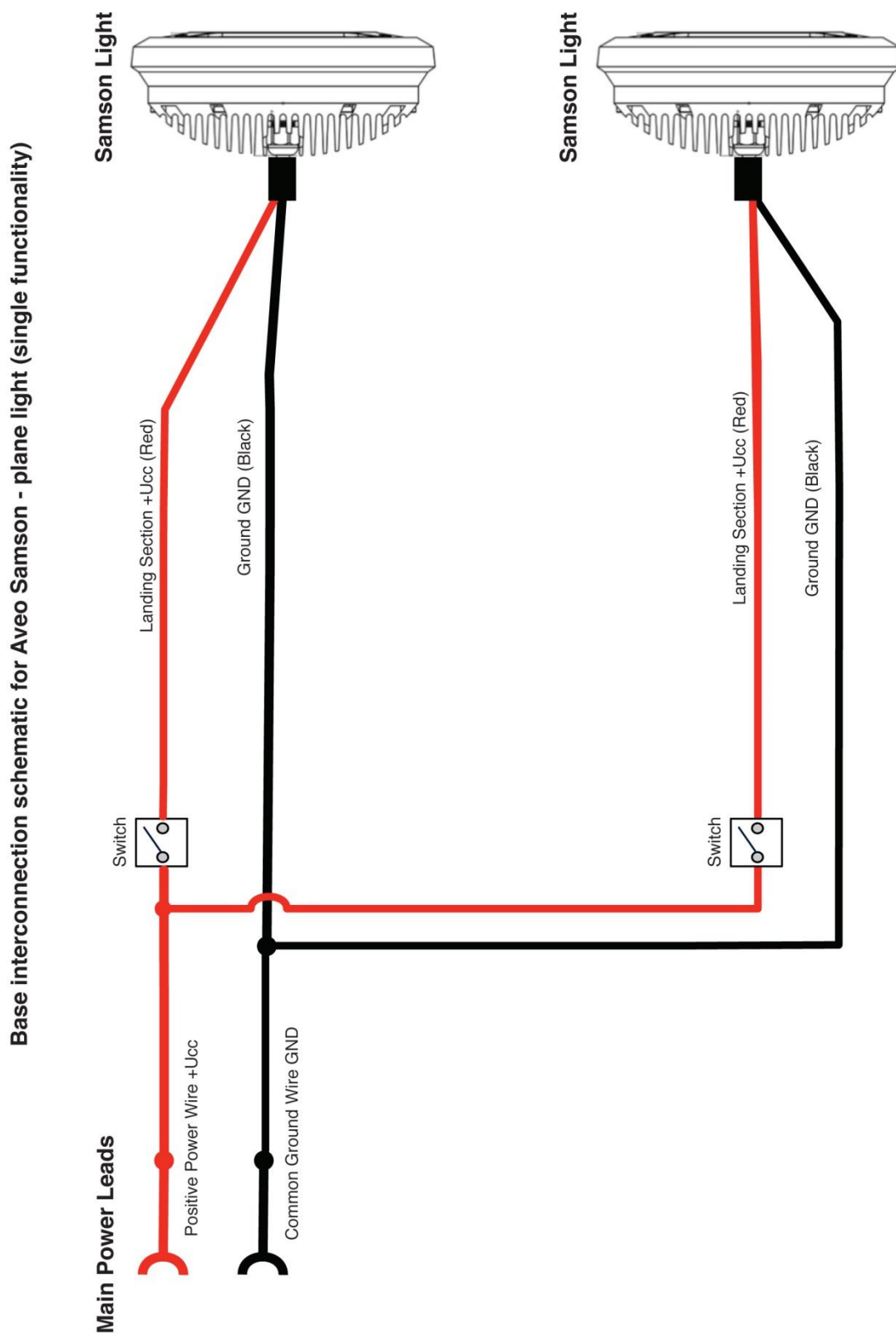
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1. WIRING DIAGRAM

Full featured light (multifunctional)



Plane light (single functionality)



2. TECHNICAL SPECIFICATION

SAMSON SPECIFICATION

1. Number of LED: 45

2. Input voltage: +18..+36 VDC

3.1 Output power [Hi/Low]- Full featured light version:

- a. 67W / 43W Taxi,
- b. 101W / 64W Landing,
- c. 168W / 107W Taxi+Landing
- d. 170W Recognition

3. 2 Output power - Plane light version: 168W

4.1 Output current [Hi/Low] - Full featured light version:

- a. 1.25A / 0.8A Taxi LED,
- b. 1.25A / 0.8A Landing LED,
- c. 1.25A per LED Recognition mode

4.2 Output current - Plane light version: 1.25A per LED

5. Voltage protection: 2 second +80V

6. Under-voltage lockout: 18V , not more

7. Over-voltage lockout: 36V, not less

8. Operation temperature: from -55°C to +85°C / from -67°F to +185°F

9. Color and shade: cool white, 6200K (XMLAWT-00-0000-0000T5050)

10. Device RTCA/DO160F qualified:

- a. chapter 4, Temperature - Altitude, Category B
- b. chapter 5, Temperature Variation, Category A
- c. chapter 6, Humidity, Category B
- d. chapter 7, Operational Shocks and Crash Safety, Category A
- e. chapter 8, Vibration, Category U, curves G
- f. chapter 9, Explosion proofness, Category H
- g. chapter 10, Waterproofness , Category S
- h. chapter 11, Fluids Susceptibility, Category F
- i. chapter 12, Sand and Dust, Category S
- j. chapter 13, Fungus resistance, Category F
- k. chapter 14, Salt spray, Category T
- l. chapter 15, Magnetic effects, Category Z
- m. chapter 16, Power Input, Category B
- n. chapter 17, Voltage Spike, Category B
- o. chapter 18, Audio Frequency Conducted Susceptibility, Category B
- p. chapter 19, Induced Signal Susceptibility, Category Z
- q. chapter 20, Radio Frequency Susceptibility, Category T

- r. chapter 21, Emission of Radio Frequency Energy, Category H
- s. chapter 22, Lightning induced transient susceptibility test, Category A2E2X
- t. chapter 23, Lightning Direct Effects, Category 2A2A
- u. chapter 24, Icing, Category A
- v. chapter 25, Electrostatic Discharge (ESD), Category A
- w. chapter 26, Fire, Flammability, Category C

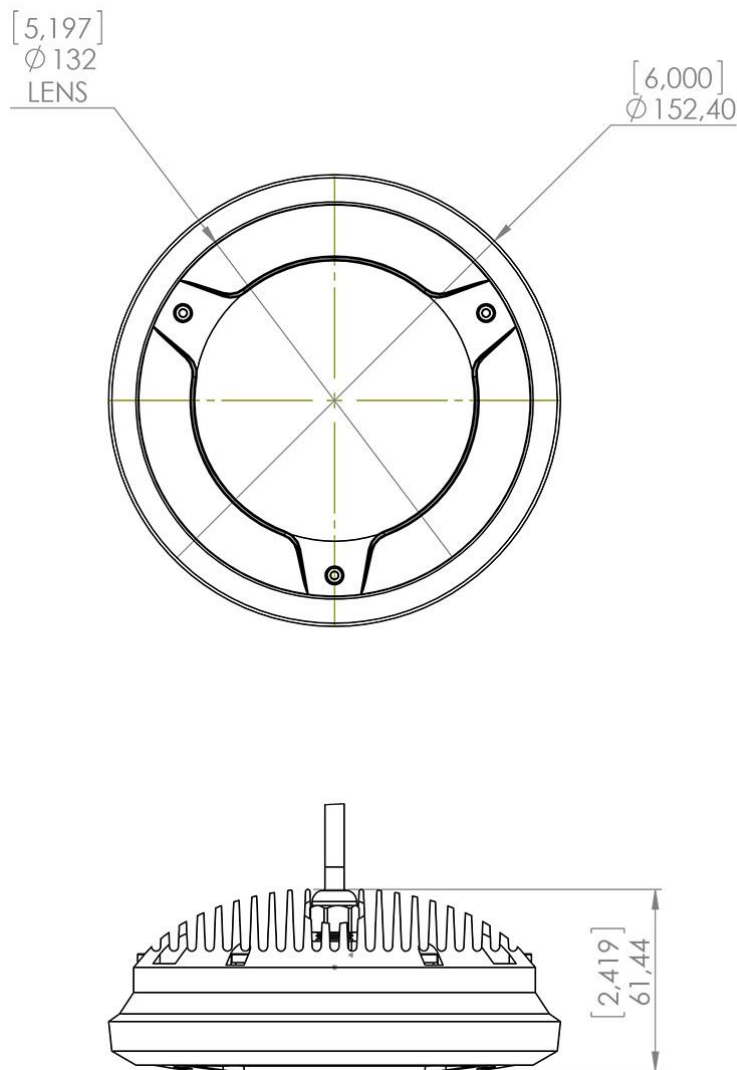
Programmable Soft-Start, less than 50mS

Overheat protection, temperature dependent decrement intensity

11. Weight: less than 800 g

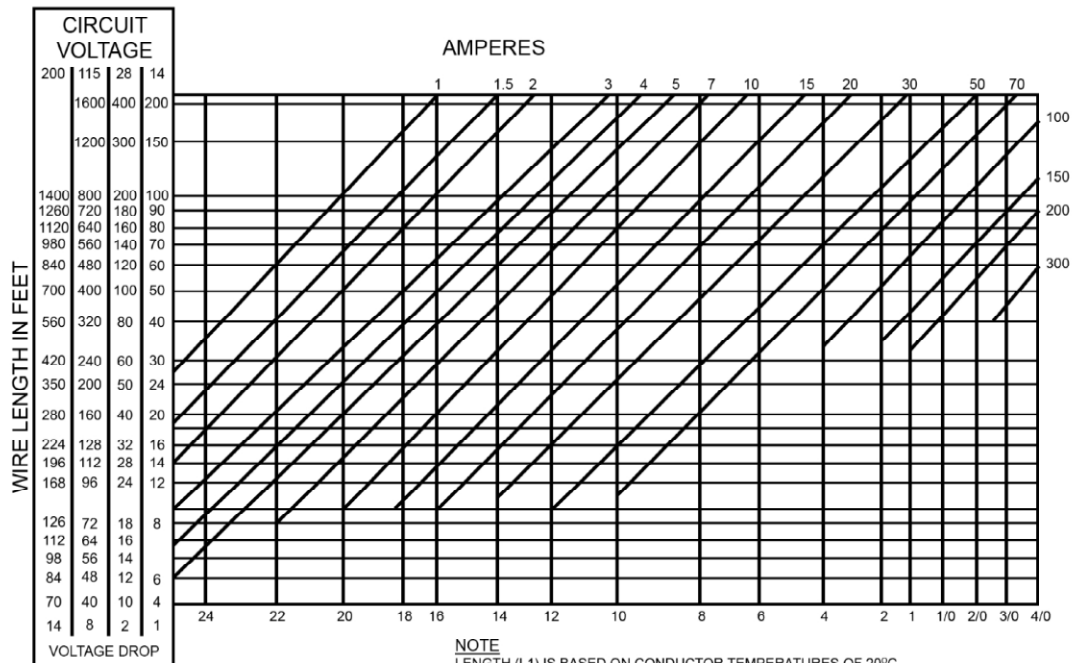
12. Useful life: not less than 30.000,0 aircraft flight hours.

3. TECHNICAL DRAWING



dimensions in [inches] mm

4. WIRING CHART



WIRE SIZE

VOLTAGE DROP CHART
 INTERMITTENT FLOW AT 20°
 TIN-PLATED MIL-W-27759
 CONDUCTOR