

Hanscom Aero Club Safety Meeting

16 November 2022



- USAF Aero Club Night Flying Regs
- Runway Lighting Systems Review



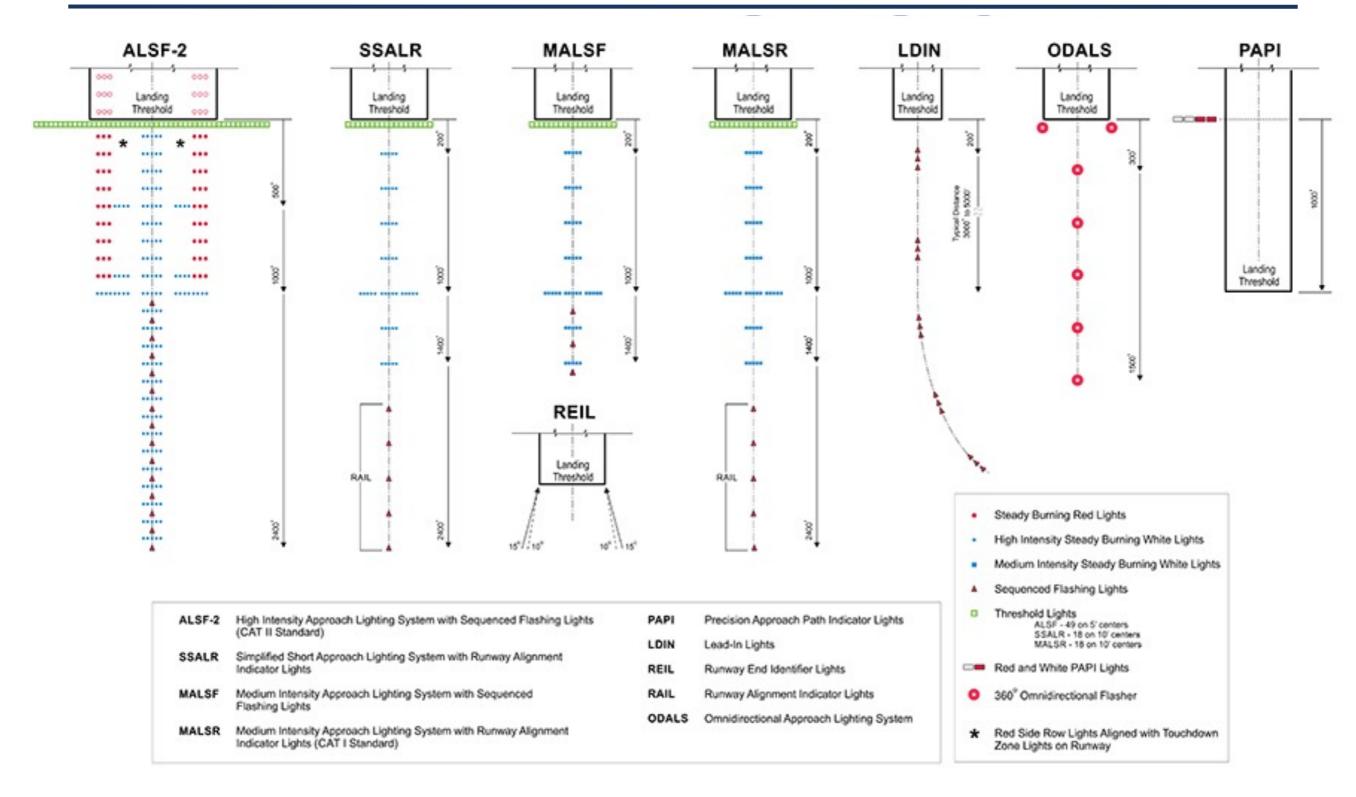
- 10.35.5: To fly as PIC at night, pilots must have:
 - 3 takeoffs and landings
 - To a full stop
 - At night
 - Within the last 90 days
 - In each category and class of aircraft
 - If lost, regain with a night-current Aero Club CFI
- 10.38: Night VFR Weather Minimums
 - 2500 ft ceiling
 - 5 sm visibility



- 10.38.2: What Pilots Must NOT do at night:
 - Aerobatics
 - Unusual attitudes, stalls, approaches to stalls, slow flight EXCEPT as part of 141 training with an instrument-current CFI onboard
 - VFR flight < 2000 ft AGL (except during takeoff and landing)
 - Operations at airports without runway lighting
 - Visual or non-precision approaches to runways outside local training area without visual glideslope guidance
 - Simulated emergency / forced landings except to lighted runways
 - Power off approaches UNLESS a night and instrument current CFI aboard
 - Power off approaches unless conducted as a 90° or 180° power off approach
 - Flight outside local area unless IFR or VFR with a night-current CFI
 - Local VFR flight unless logged 50 hours PIC and maintains visual contact with a night-ops airport, or is IFR current
 - Simulated night IFR practice in local area UNLESS a night current safety pilot is is aboard



Visual Guidance Lighting Systems



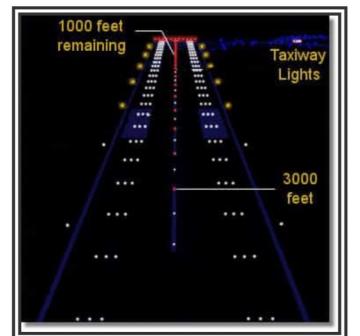


Other Runway Lights

mbol and lor letters	Description	
	Runway threshold / End lights Green (G) / Red (R)	
Y 🌗 W	Runway edge light (see note 3) Yellow (Y) / White (W)	
w 🌒	Runway edge light White (W)	
wô	Runway edge light (in-pavement) White (W)	
R 🔴	Runway threshold / End light Red (R)	
в 🔵	Taxiway edge light Blue (B)	
Y 🌗 R	Runway edge light at displaced threshold Yellow (Y) / Red (R)	AND
G 🌔 Y	Threshold / Runway edge lights at displaced threshold Green (G) / Yellow (Y)	
g uni 🌒	Runway threshold light with a unidirectional green (G UNI)	

Airport Lighting

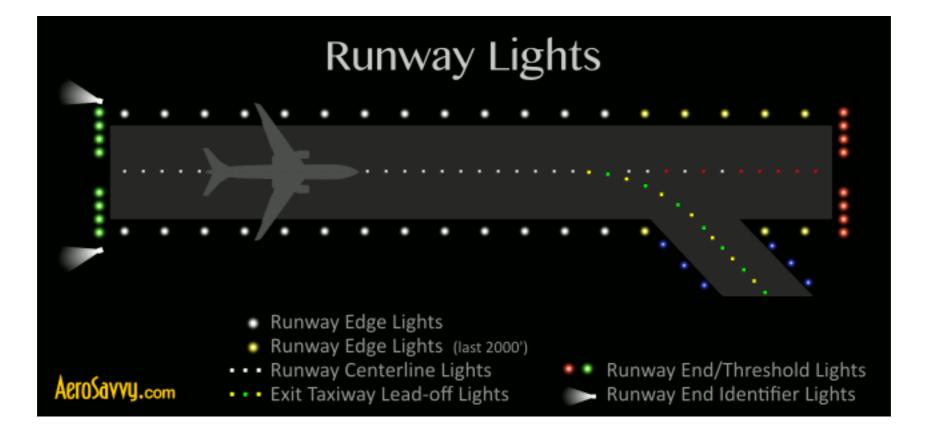
- Taxiway Lights : Blue.
- Runway End lights: Red.
- Runway Edge Lights: White (single row on either side of runway edge).
- Center line lights:
- White until 3000 ft.
- 3000 1000 ft. alternating Red and White.
- Last 1000 ft. Red.
- Runway Threshold Lights: Green.



- ARCAL: Aircraft Radio Control of Aerodrome Lighting
 - Type J: Click microphone 5x in 5 min
 - Type K: [7, 5, 3] clicks withing 5 seconds for [High, Med, Low] intensity



• <u>https://www.youtube.com/watch?v=2lMxSdFkYzo</u>





- Days are short, night is early
- Now is a great time to get night current
- Bring the right gear (flashlight, headlamp)
- Appearances deceiving at night, keep your scan going (e.g. altimeter)