



Consolite Technology Data Sheet

Part No: CTL-275-0XX

Description: Warship Navigation Lights, NVG Friendly, COLREG Compliant



Introduction

Consolite Technology has worked closely with an established manufacturer of marine navigation lights to develop a complete range of lights designed to meet the relevant NVG (night vision goggle) lighting standards, STANAG 1445 and UK Def Stan 02-587 Part 3. At the same time they remain fully compliant with the COLREG 1972 requirements for intensity distribution and chromaticity.

The lights are based on existing, proven technology, using filament lamps and rugged polymer housings in standard sizes, ensuring a straightforward retrofit in place of existing lights. An array of filters is mounted internally, with very precisely controlled spectral transmission characteristics, so as to achieve the required balance between colour, intensity, and NVG compatibility.

Application

Consolite NVG COLREG Navigation Lights are designed for use on any ship involved in NVG aviation operations. Unmodified lights will cause severe degradation in NVG performance, seriously impacting pilots' ability to see clearly, and creating a major hazard. Consolite NVG COLREG lights are designed to have carefully controlled emissions such that NVG degradation is minimised, whilst remaining visible through NVGs to provide the necessary visual cues to approaching aviators. Continued compliance with the legal COLREG 1972 requirements remains paramount.

Approval

Det Norske Veritas (DNV), in accordance with EN-ISO 14744.

Features and Benefits

Fibreglass-reinforced polycarbonate housing – rugged and fully resistant to the marine environment.

Polycarbonate Fresnel lens – shock and UV resistant.

Anti-vibration mountings supplied as standard – filters and lamps are fully protected.

Non-magnetic – no EMC issues.

Filament lamp light source – not susceptible to electromagnetic interference, simple retrofit in existing circuits.

Access to lamp from above – simple to change.

Integrated terminal box in every light – simple to connect.

Carefully controlled optical and near IR emissions – minimising impact on aviators' NVGs allowing safer operations whilst retaining visibility for spatial awareness.



Technical Information

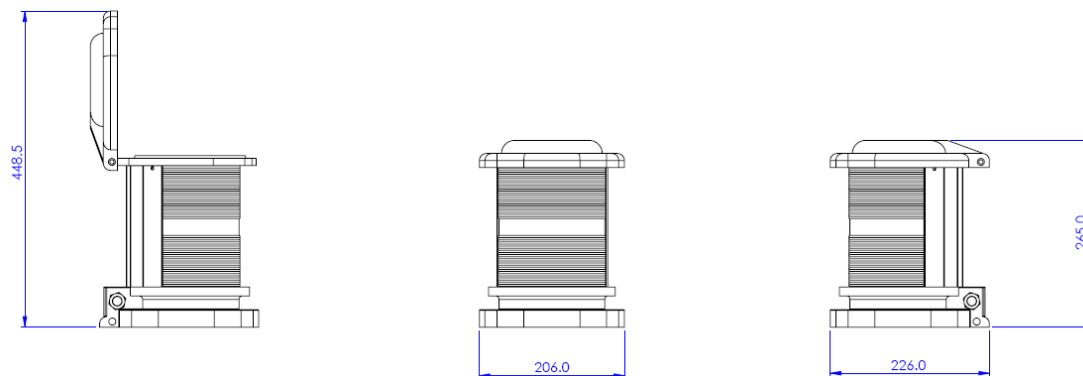
Weight: < 5kg
Protection: IP66
Lamp holder: P28S
Input Voltage: 24V 110V 220V
Power Consumption: 40W 60W 65W

NVIS Radiance & NVIS Radiant Intensity data are available on request.

The full list of lights that can be supplied is as follows:

CTL Part No	Description	Colour	Range (n.m.)	Output Distribution
CTL-275-001	NVG COLREG Starboard Navigation Light	Green	3	112.5°
CTL-275-002	NVG COLREG Port Navigation Light	Red	3	112.5°
CTL-275-003	NVG COLREG Masthead Light	White	6	225°
CTL-275-004	NVG COLREG Stern Light	White	3	135°
CTL-275-005	NVG COLREG Towing Light	Yellow	3	135°
CTL-275-006	NVG COLREG Signalling Light	White	3	360°
CTL-275-007	NVG COLREG Signalling Light	Red	3	360°
CTL-275-008	NVG COLREG Signalling Light	Green	3	360°
CTL-275-009	NVG COLREG Signalling Light	Yellow	3	360°
CTL-275-010	NVG COLREG Signalling Light	Blue	3	360°
CTL-275-011	NVG COLREG Manoeuvring Light	White	3	360°
CTL-275-012	NVG COLREG Suez Light	Red	3	135°
CTL-275-013	NVG COLREG Steering Light	Blue	2	30°
CTL-275-014	NVG COLREG Stern Light	Blue	3	135°

Key Dimensions



Mounting holes are 11.0mm diameter. Hole centre spacing is 155.5mm.