Turbolite

Zones: 1 and 2

Product Overview

The Turbolite is a high powered compressed air driven lamp developed from the well known Wolf Airturbo and is certified for use in Zones 1 and 2 hazardous areas, commonly used in the oil and petrochemicals industries, for tank cleaning and pipeline inspections, offering a safer alternative to low voltage lighting in dangerously wet conditions as well as where flammable gases and vapours can accumulate in confined spaces.

The Turbolite A-TL44 has a bay light fitting comprising a ball glass and protective polycarbonate dome to provide all-round general purpose illumination and a hook provides for suspension of the lamp in the working area or for simple fastening to a folding tripod. The Turbolite A-TL45 has a reflector head fitting for direct illumination with a polished or matt reflector giving the option of a concentrated narrow beam or diffused wide angle illumination.

The housings are cast brass, a spark free material, and the safety hook is also brass, but forged for extra strength and all external parts are nickel plated. Internal components are of durable design making the products suitable for use in the harshest industrial environments. A clean dry air supply is a condition of certification and essential for the efficient running of these lamps, otherwise contamination will deposit into the inside of the lens, reducing illumination levels. Suitable air-line filters can be supplied. Another mandatory requirement is the use of anti-static hose, to prevent the generation of unsafe levels of static electricity.

The 24 volt 250 watt tungsten halogen bulb is available in two types offering a choice of 6,000 lumens for 2,000 hours or 9,000 lumens for 200 hours. Lamps are routinely run in, tested and set to the necessary output prior to despatch and are simple and easy to maintain.

Features & Benefits

- 250 Watt Halogen Ultimate Output
- Electronic Setting Device
- Generator Overspeed Protector
- Advanced Internal Topology Rotor Design
- Spark Free Brass Casings
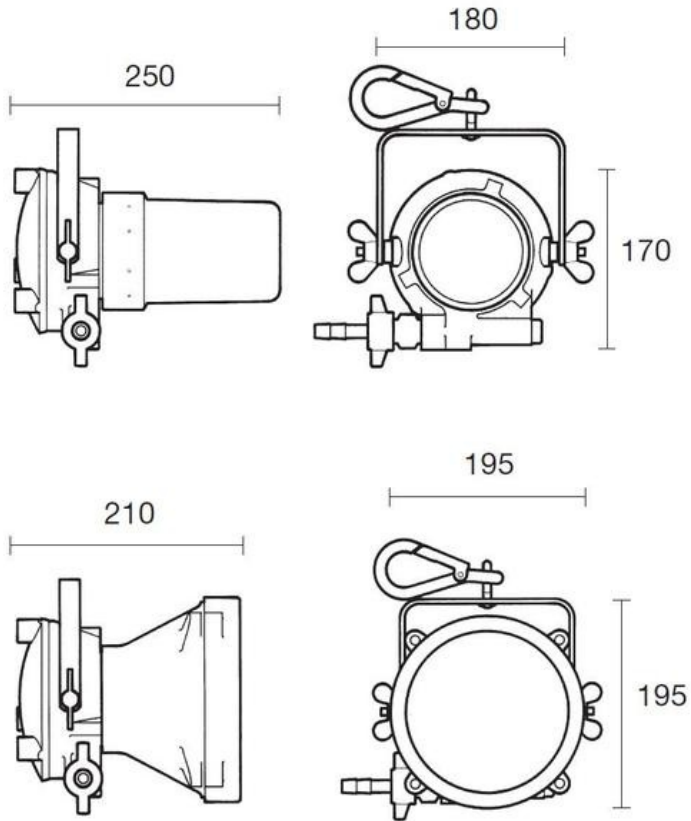- Full Accessory Range Available

Certifications

EX (NON ATEX)

Technical Specification

Product Reference	A-TL44		A-TL45	
Product Description	Safety Bay Light Compressed Air Powered		Safety Flood Light Compressed Air Powered	
Code	Ex s II T4			
Apparatus Standards	SFA 3009:1972			
Type of Protection	"s" special protection			
Area of Classification (Gas)	Zones 1 and 2, Gas Groups IIA, IIB, IIC			
Temp. Classification	T4			
Ambient Temperature	-20°C to +40°C			
Certificate	BASEEFA Ex 78209X*			
Enclosure	Nickel Plated Brass and Gun Metal			
Lens	Ball Glass/Polycarbonate Dome		Toughened Glass (15mm)	
Beam Type	All-around 360° Illumination		Flood (Matt Reflector) (as standard) or Spot (Polished Reflector) (to order)	

Light Source:	Part No.	A-129 (as std)	A-159 (as alt)	A-129 (as std)	A-159 (as alt)
	Type	Tungsten Halogen Filled Filament Bulb			
	Volts	24v			
	Watts	250w			
	Output	6000 lm	9000 lm	6000 lm	9000 lm
	Life	2000 hrs	200 hrs	2000 hrs	200 hrs

Power Source:	Type	Compressed Air Driven Turbo-alternator			
	Air Pressure	4.0-8.0 bar			
	Consumption	0.75m3/min			

Ingress Protection	Once pressurised may be used underwater			
Weight	7.9kg		12.2kg	
*Special certification conditions	A clean dry air supply must be used. Supply hose must be anti-static.			

- All information has been gathered under laboratory conditions, the user must regard the values given as approximate.

- Changes may be made to the above specification without notification, details are available on request.

Product Dimensions

Light Output

A-TL44 - Ball Glass
Peak luminous intensity at 2.5m **70lux**
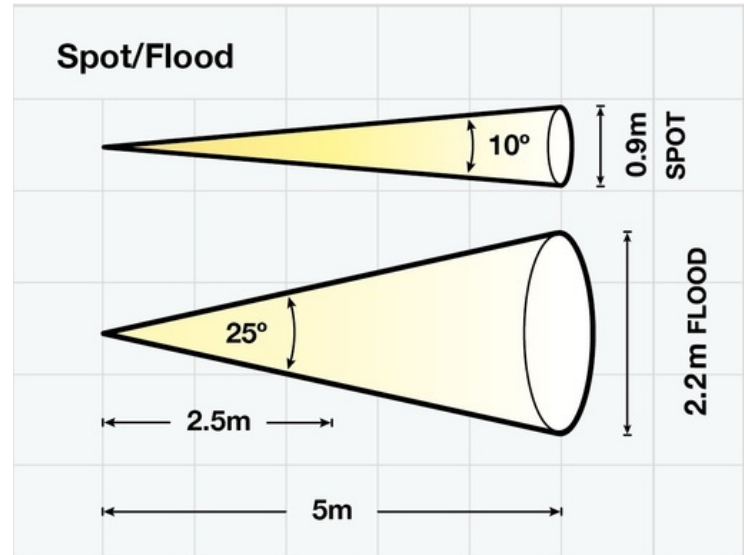
A-TL45 - Polished Reflector
Spot Beam (approx 10°)
Peak luminous intensity at 5m **2000lux**

A-TL45 - Matt Reflector
Flood Beam (approx 25°)
Peak luminous intensity at 5m **950lux**

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