underwater lights limited

The art of superyacht lighting

celebrating 25 years
a picture speaks a thousand words ...
underwater lights limited

M/Y Madsummer, 79 meter / 147 ft LOA, Lürssen Yachts
We are now moving into our twenty-fifth year and maintaining our position as the number one choice for underwater lighting by owners, designers, and shipyards around the world - amongst a crowded and competitive marketplace - means that we are celebrating a milestone.

We believe what has kept us strong, first and foremost, is that we are a small, efficiently run family business and we’ve been able to maintain our UK and German manufacturing bases whilst keeping the design firmly within our control.

Our founder, Peter, started his career in 1966 as a marine engineer in the merchant navy. After passing the Certificate of Competency - First Class Engineer (steam/motorship) he moved to land based positions working as a surveyor for Lloyds Register of Shipping, The Salvage Association, Noble Denton, Commercial Marine Superintendent and finally as an independent marine consultant. His experience brought a unique insight into the world of naval architecture and marine engineering which positioned us from the start as the industry benchmark.
Mutual Respect

We have resisted the urge to expand beyond our means by not stretching our capabilities or our client’s patience. Instead, our business model was, and still is, built on keeping our overheads low, our product first-rate, and refusing to cut corners. The first ever Superyacht was fitted with our underwater lights in 1991 and every single light is still working perfectly to this day. We feel this is testament to the design and build quality that has kept us at the pinnacle of marine lighting design for the past two decades.

Our lights have been specified and installed on hundreds of Superyachts around the world and over the years the product range has continually developed and evolved into custom bespoke lighting for exterior and interior on projects. The light design on the award winning Blohm & Voss – M/Y Palladium was carried out by Peter Urquhart.

We have been resistant to the haste of trendy new technology, preferring to take the cautious approach and fully prove function and solidity in our own test tanks rather than in a customer’s hull.
We are one of the few fully approved lighting companies in the industry across several platforms including Lloyd’s, ABS and GL. We own and operate our own CNC machines with full LRQA workshop approval which means we have a reduced reliance on external manufacturing partners, keeping design and quality within our control allowing us to offer an unrivalled accelerated turnaround production time.

As a private family business, we have not put ourselves at risk over the past twenty five years in the pursuit of quick profit, ensuring we have never put our client’s projects at risk, which is why we are trusted and respected by the best shipyards and designers in the industry.
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M/Y ICON, 62.5 meter / 203 ft LOA, ICON Yachts
Working as an independent surveyor back in the late 1980’s I was asked to design an underwater light by an owner’s rep on a new build. Little did I know, then, that lighting was going to become my life. I worked closely with the shipyard and Lloyd’s as I designed and built the Original Bulleyt underwater lighting system and to this day – twenty five years on – the lights still work perfectly.

The industry has changed a lot since then; we held the entire market for over a decade until around 2005 when LED products started to become available. LED technology at that time was in its infancy and a lot more R&D was required before we would start producing an LED underwater light.

For my designs and business, I tend to be cautious but my intention is to always make the best product using the most reliable HQI and LED light sources. I see various design elements of my lights in many competitor’s products and I’m proud that I’m the one they want to copy.

I enjoy living and working in the UK with Klare and the team and prefer designing and building lights rather than being the dull face at the boat shows. I am proud to have begun underwater lighting for the marine industry and to have been part of the development of the superyacht industry over the past forty plus years.

Peter Urquhart
I grew up with my father designing and producing underwater lights in a shed at the bottom of our garden. Like any independent daughter, I managed to defy the family business for a few years, working up to partner level in a company within a sister industry, gaining valuable experience, joining the family business in 2001 as we began expanding. I bring a level of cohesiveness to the sales and marketing that as a true inventor, my father, wasn’t focused on. In applying the attention to detail in preparing quotes and working closely with shipyards, designers, and engineers from all around the world, our tight little team operates like clockwork.

I think we stand for what makes a traditional British company ‘great’ which is strong industrial design and workmanship with a down to earth work ethic. In my spare time you will find me out walking the dog or riding my horses. The next few years ahead look to be some of the most exciting yet for us, as new world-class projects and opportunities present themselves and our relationships continue to mature with our long term customers. Looking forward to the next twenty five years...
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S/Y Twizzle, 57 meter / 188 ft LOA, Royal Huisman
What We Do

We have always provided free design consultation for any sized project be it a Searay or any of the Megayacht builders around the world. We have lit the majority of the Superyachts built over the past twenty five years which helps us eliminate the guess work and provide the required light plan to suit the Owner’s wish.

We manufacture and assemble the lights in our own workshop and use local sub-contractors for specialty work such as anodising and polishing. This gives us tight control on quality and production lead times. We keep in stock at all times no less than twenty components of every light to accommodate rush orders, typically for refits and last minute additions, cutting regular lead times from twelve weeks to less than one.
Setting The Standard

Peter has worked closely with classification societies to establish an understanding of their strict type approval requirements for underwater lighting. Rules and manufacturing processes are constantly being changed and updated and knowing why these changes are made has been a huge benefit, allowing yards and owners teams to specify and install the products, confident in the knowledge all of the relevant approvals and paper work are in place.
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M/Y Diamonds Are Forever, 61 meter / 197 ft LOA, Benetti
A full range of lighting products for installation below the waterline for all varieties of new and existing boats, without lights, from sailing vessels to the largest Superyacht. Available in metal halide and the latest LED alternatives offering standard White, Royal Blue and RGB+W colour options. All the QT LED range of lights use our unique high efficiency light collecting lens. The lenses are manufactured from toughened borosilicate glass for high impact protection.
A LED ‘through-hull’ light for welding into aluminium and steel hulls creating an industry leading 20,000 lumens of light output in Cool White. RGB+W and Royal Blue are also standard options. Suitable for boats greater than 30 meters / 90 ft with a recommended distance between lights of 1.5 meters / 5 ft (transom) to 5 meters / 16 ft (port and starboard) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull and therefore dry docking is not necessary. The welded section is available to suit hull angles from 0 to 50 degrees. The unique domed light collection lens have beam angles of 90 or 120 degrees and the front borosilicate glass is treated with our unique anti-fungal coating.

**STEEL & ALUMINIUM HULLS**

**UNDERWATER LIGHTS**

**Qt LED 75**

- **Lamp type:** Flat LED chip
- **Lamp life:** 40,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White, Royal Blue and RGB+W
- **Voltage/lamps:** Supply 110vac @ 1.4 Amps, 230vac @ 0.7 Amps
- **Driver Output:** White: 55vdc @ 2.8 Amps, RGB+W & Blue: 36vdc @ 4 Amps
- **Hole cut-out:** To suit the selected insert
- **Glass lens:** Wide beam, borosilicate glass
- **Classification:** Lloyd’s / ABS / GL approved
- **Material:** 316L stainless steel, 5083 aluminium
- **Light output:** Up to 20,000 lumens

An adjustable ‘through-hull’ Metal Halide light for welding into aluminium and steel hulls available in either 150w or 250w versions, creating 12,000 and 19,000 lumens light output respectively. Designed for boats greater than 30 meters / 90 ft with a recommended distance between lights of 1.5 meters / 5 ft (transom) to 5 meters / 16 ft (port and starboard) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull and therefore dry docking is not necessary. The welded insert sections are available to suit various hull angles from 0 to 50 degrees and the ‘SA’ model, has a beam angle that can be internally adjusted up to 20 degrees.

**UL Ti MATE 75**

- **Lamp type:** Metal Halide 150w or 250w
- **Lamp life:** 3,000 hours
- **Colour temp:** 7,000K
- **Voltage/lamps:** 150w: 120/230 VAC, 1.4 - 0.7 Amps, 250w: 198/264 VAC, 1.2 Amps (SA Only)
- **Driver Output:** White: 55vdc @ 2.8 Amps, RGB+W & Blue: 36vdc @ 4 Amps
- **Hole cut-out:** To suit the selected insert
- **Glass lens:** Borosilicate glass
- **Classification:** Lloyd’s / ABS / GL approved
- **Material:** 316L stainless steel, 5083 aluminium
- **Light output:** 12,000 lumens for 150w, 19,000 lumens for 250w - SA version only
**Qt LED 130**

A LED ‘through-hull’ light suitable for GRP / Fibreglass and timber hulls creating an industry leading 20,000 lumens of light output in Cool White. RGB+W and Royal Blue are also standard options. Suitable for boats greater than 30 meters / 90 ft with a recommended distance between lights of 1.5 meters / 5 ft (transom) to 5 meters / 16 ft (port and star-board) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull and therefore dry docking is not necessary. The unique domed light collection lens have beam angles of 90 or 120 degrees and the front borosilicate glass is treated with our unique anti-fungal coating.

** Specifications**
- **Lamp type:** Flat LED chip
- **Lamp life:** 40,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White, Royal Blue and RGBW
- **Voltage/amps:** Supply 110vac @ 1.4 Amps, 230vac @ 0.7 Amp
- **Driver Output:** White: 55vdc @ 2.8 Amps, Blue / RGB+W: 36vdc @ 4 Amps
- **Hole cut-out:** 101mm / 4”
- **Glass lens:** Wide beam, borosilicate glass
- **Classification:** Lloyd’s / ABS approved
- **Material:** Aluminium bronze, Armor Coated 5083 aluminium
- **Light output:** 20,000 lumens

**UL Ti MATE 130 - FIXED**

An adjustable ‘through-hull’ Metal Halide light suitable for GRP / Fibreglass and timber hulls available in either 150w or 250w versions, creating 12,000 and 19,000 lumens light output respectively. Designed for boats greater than 30 meters / 90 ft with a recommended distance between lights of 1.5 meters / 5 ft (transom) to 5 meters / 16 ft (port and star-board) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull and therefore dry docking is not necessary. The ‘SA’ model, has a beam angle that can be internally adjusted up to 20 degrees. All metal parts are protected by our Armor coating.

** Specifications**
- **Lamp type:** Metal Halide 150w or 250w
- **Lamp life:** 3000 hours
- **Colour temp:** 7,000K
- **Voltage/amps:** 150w 120/230 vAC, 1.4 - 0.7 Amps, 250w 198/264 VAC, 1.2 Amps (SA only)
- **Hole cut-out:** 101mm / 4”
- **Glass lens:** Borosilicate glass
- **Classification:** Lloyd’s / ABS approved
- **Material:** Aluminium bronze, Armor Coated 5083 aluminium
- **Light output:** 12,000 lumens for 150w, 19,000 lumens for 250w (SA only)
A LED ‘through-hull’ light suitable for GRP / Fibreglass and timber hulls creating 6,000 lumens of light output in Cool White or Royal Blue. Suitable for boats up to 30 meters / 90 ft with a recommended distance between lights of 1 meter / 3 ft (transom) to 3 meters / 10 ft (port and star-board) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull. The unique high impact domed lens has a beam angle of 68 degrees and is treated with our unique anti - fungal coating and all metal parts are protected by our Armor coating.

Our most popular ‘through-hull’ light is suitable for GRP / Fibreglass and timber hulls creating 4,800 lumens of light output from a 55w Xenon bulb. Suitable for boats up to 30 meters / 90 ft with a recommended distance between lights of 1 meter / 3 ft (transom) to 3 meters / 10 ft (port and star-board) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull. This light has an additional option to be fitted with our extra wide angle filter for ultimate beam spread and all metal parts are protected by our Armor coating.

**Qt LED 80**

- **Lamp type:** Flat LED chip
- **Lamp life:** 40,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White and Royal Blue
- **Voltage/amps:**
  - White: 11-28vdc @ 3.8 - 1.1 Amps
  - Blue: 11-28vdc @ 5.0 - 2.8 Amps
- **Hole cut-out:** 61mm / 2 1/2”
- **Glass lens:** Wide beam, high impact borosilicate glass
- **Classification:** Lloyd’s / ABS approved
- **Pressure tested:** IPX8 to 10 bar
- **Material:** Aluminum bronze
- **Light output:** Standard 6,000 lumens

**UL Ti MATE 80**

- **Lamp type:** 55W Xenon bulb
- **Lamp life:** 3,000 hours
- **Colour temp:** 7,000K
- **Voltage/amps:**
  - White: 12 / 24vdc, 6.4A / 2.5A
- **Glass lens:** Borosilicate glass
- **Classification:** Lloyd’s / ABS approved
- **Pressure tested:** IPX8 to 10 bar
- **Material:** Aluminum bronze
- **Armor Coated:** 5083 aluminum
- **Light output:** 4,800 lumens
- **Hole cut-out:** 61mm / 2 1/2”
New for 2016 is our industry leading LED ‘through-hull’ light suitable for GRP / Fibreglass and timber hulls with only a 72mm / 2 7/8” hole cutout producing 10,000 lumens of light output in Cool White. Royal Blue is also available and these single colour lights have an integrated driver. The colour change RGB+W option operates with an external driver. Suitable for boats greater than 20 meters / 60 ft with a recommended distance between lights of 1.5 meters / 5 ft (transom) to 5 meters / 16 ft (port and star-board) for the best illumination. The boat must be hauled out for installation and maintenance of the light is carried out from inside the hull. The unique high impact domed lens has a beam angle of 90 degrees and is treated with our unique anti-fungal coating and all metal parts are protected by our Armor coating.

**For Composite Hulls Underwater Lights**

**QT LED 100**

- **Lamp type:** Flat LED chip
- **Lamp life:** 40,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White, Royal Blue and RGB+W
- **Voltage/amps:**
  - White: Supply 11-28vdc @ 6.8 - 3.2 Amps
  - RGB+W & Blue: Supply 22-30vdc @ 2.8 max 4 channels
- **Hole cut-out:** 72mm / 2 7/8”

**Glass lens:** Wide beam, High Impact borosilicate glass

**Classification:** Lloyd’s / ABS approved

**Pressure tested IP X8 TO 15 Bar**

**Material:**
- Aluminium bronze
- Armor Coated 5083 aluminium

**Light output:** Standard 10,000 lumens
We are capable of upgrading or retrofitting all of our underwater lights to the very latest in LED and metal halide technology. Without the need to haul the vessel, modify approval certification or make any hull modifications. Most lights can be quickly and cleanly changed over which a number of high profile yachts in 2015 have done successfully using the yachts engineering staff.
New for 2016 is our Qt LED 75 Retro underwater light which is an insert designed to be fitted onto an existing Metal Halide underwater light, previously supplied from ourselves, allowing an easy upgrade to LED without changing the hull fitting or hauling the boat. The Qt LED 75 Retro is designed for boats with the Original Bulleyt and UL Ti MATE 70/75 SA ranges from Underwater Lights Limited. Installation requires no modification to class approvals and retrofitting these fixtures can take as little as one hour to totally transform the yachts existing underwater lighting setup. Available in a 20,000 lumen Cool White LED, Royal Blue and RGB+W colour change.

Lamp type: Flat LED chip
Lamp life: 40,000 hours @ 35°C
Colour temp: 6,500K Cool White, Royal Blue and RGB+W
Voltage/amps: Supply 110-240vac @ 1.4 - 0.6 Amps
Existing Fixture: Bulleyt, UL Ti MATE 70/75
The Qt LED 130 Retro underwater light is an insert designed to be fitted into existing Metal Halide fixtures from ourselves. The Large Screwed Bulleyt and the UL Ti MATE 130 model can easily be upgraded to LED without changing the hull fitting or hauling the boat. Installation requires no modification to class approvals and refitting these fixtures can take as little as one hour to totally transform the yacht’s existing underwater lighting setup. Available in a 20,000 lumen Cool White, Royal Blue and RGB+W colour change.

The Qt LED 80-40 Retro underwater light is an insert designed to be fitted into existing Xenon, Halogen and UL Ti MATE 80 fixtures from ourselves. The Small Screwed Bulleyt, type A or B and all UL Ti MATE 80 models can easily be-upgraded to LED without changing the hull fitting or hauling the boat. Installation requires no modification to class approvals and refitting these fixtures can take as little as one hour to totally transform the yacht’s existing underwater lighting setup. Available in a 6,000 lumen Cool White and Royal Blue.

**Qt LED 130 Retro**

- **Lamp type:** Flat LED chip
- **Lamp life:** 40,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White, Blue and RGB+W
- **Voltage/amps:** Supply 110-240vac @ 1.4 - 0.6 Amps
- **Driver Output:** White: 55vdc @ 2.8 Amps
  - RGB+W & Blue: 36vdc @ 4 Amps
- **Existing Fixture:** Large Screwed Bulleyt, UL Ti MATE 130 Fixed and SA
- **Glass lens:** Wide beam, borosilicate glass
- **Classification:** Lloyds / ABS approved
- **Light output:** Maximum 20,000 lumens

**Qt LED 80-40 Retro**

- **Lamp type:** Flat LED chip
- **Lamp life:** 20,000 hours @ 35°C
- **Colour temp:** 6,500K Cool White, Royal Blue
- **Voltage/amps:** White: 11-28vdc @ 3.8 - 1.1 Amps
  - Blue: 11-28vdc @ 5.0 - 2.8 Amps
- **Existing Fixture:** Small Screwed Bulleyt, UL Ti MATE 80 Narrow beam, borosilicate glass
- **Glass lens:** Lloyds / ABS approved
- **Classification:** Standard 6,000 lumens

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110mm

76mm

43mm

104mm

160mm

125mm

465x108

17x334

FOR COMPOSITE HULLS UNDERWATER LIGHTS
As a natural progression our technology evolved to be used for lighting above the waterline and we now have an extensive range of products for exterior and interior applications. Built to the same exacting standard as the underwater lighting ranges giving unrivaled longevity and functionality in some of the harshest environments on-board a yacht. Exterior light plan by Peter Urquhart.
 Qt LED 32, 34, 42i

Small, adjustable and fixed LED lights suitable for interior and exterior illumination. Qt LED 32 is a fixed side-emitting light, ideal for step, emergency and accent lighting. Qt LED 34 is an adjustable interior light, ideal for emergency and accent lighting. Qt LED 42i is a fixed down light with an integral driver.

 Qt LED 44i, 44, 56

A range of small multi-purpose adjustable LED lights, for interior and exterior illumination. The housings are available in a variety of materials and finishes to suit every application. Qt LED 56 can have an integral driver and Qt LED 44 i has an integral driver whilst the Qt LED 44 requires a remote driver. All are ideal for installation into walls, ceilings and stairs. Acetal and metal inserts can be fitted to the Qt 56, 44 i and Qt 44 lights to increase the rear IP rating.

**Lamp type:** Single LED light

**Colour:** Cool White, Warm White, Blue, Green and Red

**Lens finish:** Clear

**Hole cut-out:**
- Qt 40: 23mm
- Qt 52: 28mm
- Qt 34: 28mm

**Classification:** Tested IP 67 front and IP 44 rear

**Bezel finish:** Polished 316 stainless steel

Other finishes available on request

**Light output:** Standard 100 lumens, Qt LED 42i up to 250 lumens also available

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**Lamp type:** Single LED light

**Colour:** Cool White, Warm White, Blue, Green and Red

**Lens finish:** Clear

**Hole cut-out:**
- Qt 40: 23mm
- Qt 52: 28mm
- Qt 34: 28mm

**Classification:** Tested IP 67 front and IP 44 rear

**Bezel finish:** Polished 316 stainless steel

Other finishes available on request

**Light output:** Standard 100 lumens, Qt LED 42i up to 250 lumens also available

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**Lamp type:** Single LED light

**Colour:** Cool White, Warm White, Blue, Green and Red

**Lens finish:** Clear

**Hole cut-out:**
- Qt 40: 23mm
- Qt 52: 28mm
- Qt 34: 28mm

**Classification:** Tested IP 67 front and IP 44 rear

**Bezel finish:** Polished 316 stainless steel

Other finishes available on request

**Light output:** Standard 100 lumens, Qt LED 42i up to 250 lumens, Qt LED 56 up to 310 lumens
The PAR 30 is a powerful adjustable light for exterior flood lighting onto areas such as decks or masts. The bolted bezel houses a 15mm thick glass for installation into exposed areas and requires an insert. For down lighting a 4mm thick glass with a screwed bezel is also available. S3052 is a medium power adjustable light ideal for low level and down lighting. The light is available with a bolted bezel for exposed areas or a screwed bezel for less exposed areas. Weld-in inserts are recommended for installation into areas exposed to heavy weather. The PAR 30 is also available with an LED (Qt 142) – Flood up to 10,000 lumens.

Lamp type: PAR 30: 150W HID lamp or halogen Others: MR16 halogen - max 50W LED option on request
Lens finish: Clear or frosted 4mm / 15mm
Inserts: Aluminium or stainless steel
Light output: Up to 12,000 lumens for 150W, halogen lamp: up to 1,200 lumens LED Flood up to 10,000 lumens

For interior and exterior deck lights:

Qt LED 76-3, 76-8

Qt LED 76 Adjustable and Fixed LED light for exterior and interior applications. The Qt LED 76 is a versatile adjustable or fixed LED light with optional integral driver. Qt LED 76-1 is an adjustable light for low level, down and accent lighting. Qt LED 76-2 is adjustable. An insert provides water tight integrity for use in exposed areas. Qt LED 76-3 is a fixed light. Ideal for down lighting. Qt LED 76-8 Helideck indicator light is designed to meet CAP A37 rules. The helideck insert maintains deck integrity when the light is removed, this is a classification requirement when refueling the helicopter.

The PAR 30 is a powerful adjustable light for exterior flood lighting onto areas such as decks or masts. The bolted bezel houses a 15mm thick glass for installation into exposed areas and requires an insert. For down lighting a 4mm thick glass with a screwed bezel is also available. S3052 is a medium power adjustable light ideal for low level and down lighting. The light is available with a bolted bezel for exposed areas or a screwed bezel for less exposed areas. Weld-in inserts are recommended for installation into areas exposed to heavy weather. The PAR 30 is also available with an LED (Qt 142) – Flood up to 10,000 lumens.

Lamp type: Flat LED chip
Colour: Cool White, Warm white
Helideck: Red, Yellow, Blue, Green
Lens finish: Clear borosilicate glass
Helideck: acrylic lens
Classification: Tested IP 67
Bezel finish: 5083 Aluminium or 316 stainless steel
Other Material & finishes available on request
Light output: Up to 1,400 lumens
Helideck: up to 750 lumens

For interior and exterior deck lights:

QT-76 - 3
Hole cutout 29mm
5mm
90mm
60mm
93mm
110mm
13mm
80mm
502x217
QT-76 - 8
PAR 30
122mm 122mm
67/68mm
95mm
9.5mm

FLOOD LIGHTS
Bespoke Lighting

We are often asked to assist in the design of bespoke lighting for both land and sea applications. We draw from our successful design and material experience within our core range of products to find unique solutions.

Our custom lights have been used around the world in award winning Superyachts such as the 2010 Blohm & Voss new build M/Y Palladium and on M/Y Serque based in Fort Lauderdale, Florida.

We have also continued our supply of products and lighting design into listed historical buildings around Europe and private estates.

Good lighting is an art form and we believe we are amongst the very best lighting artisans.