



# LightGraphix

Creative Lighting Solutions



# OUR PURPOSE

To inspire lighting professionals with innovative lighting tools that encourage creative lighting solutions.



# OUR VISION

A world where lighting innovation, experience and inspiration combine responsibly to enhance the visual environment.



# WHO IS LIGHTGRAPHIX?

LightGraphix is a British manufacturer specialising in the design of LED light fittings for architectural, marine and display use.

- > Privately owned company based in Crayford, Kent (30 minutes outside of London)
- > Managing directors are product designers so good design is at the heart of the business
- > Manufacturing director has worked for LightGraphix for 43 years
- > Team of 80 staff, half of which work in manufacturing
- > Team of product designers, technical, internal sales, dispatch, marketing, accounts

## MEET THE DIRECTORS:



Robert Buxton  
Sales & Marketing

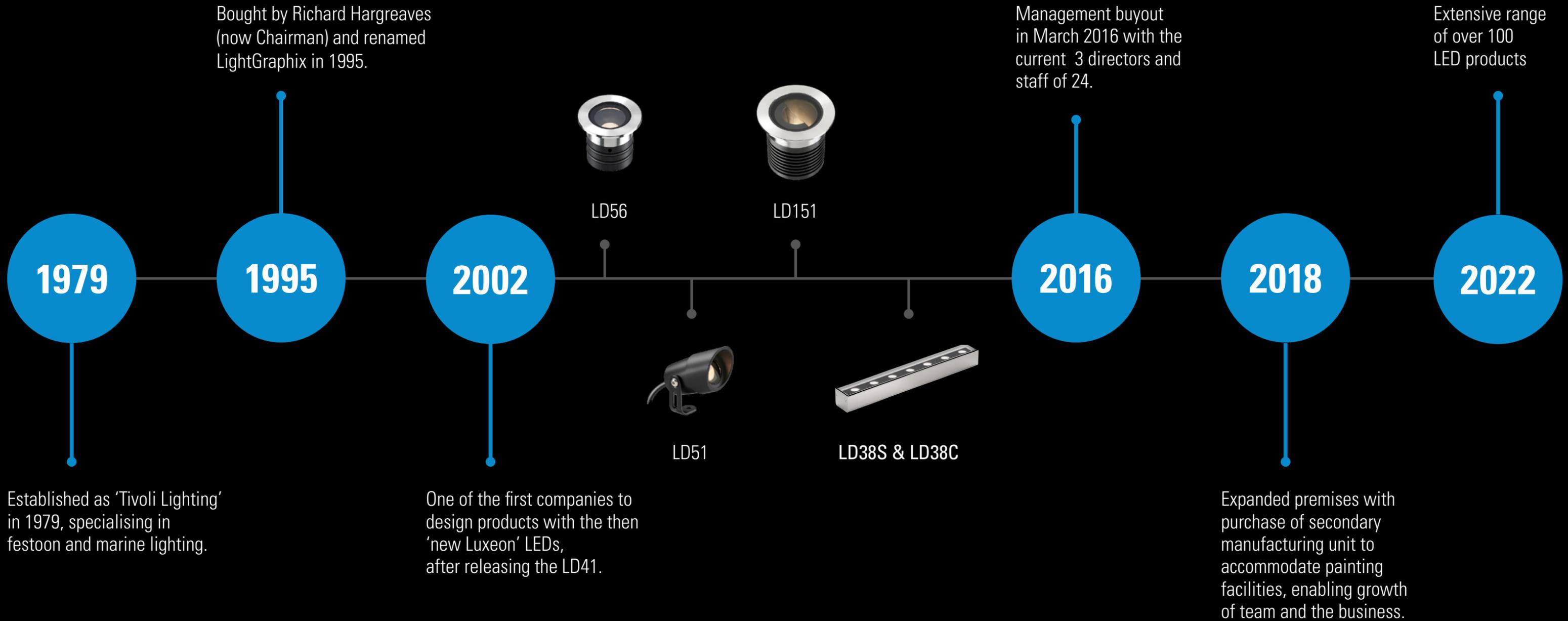


Simon Lyon  
Design & Finance



Stan Harris  
Manufacturing

# OUR HISTORY



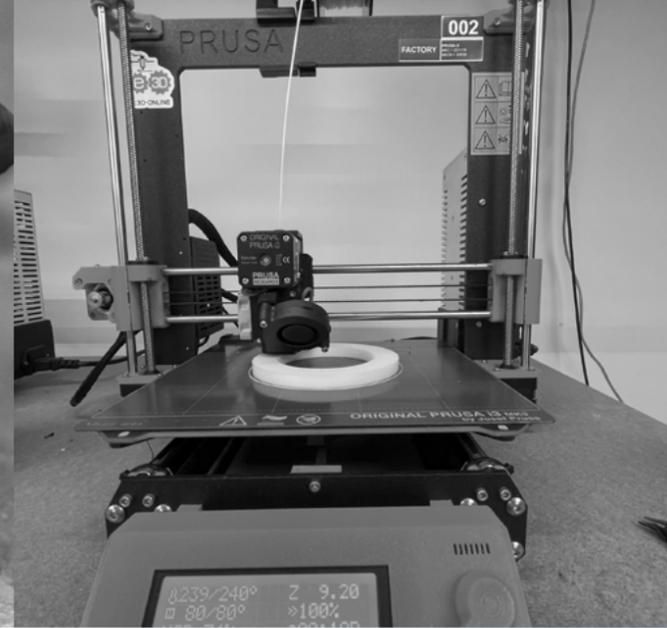
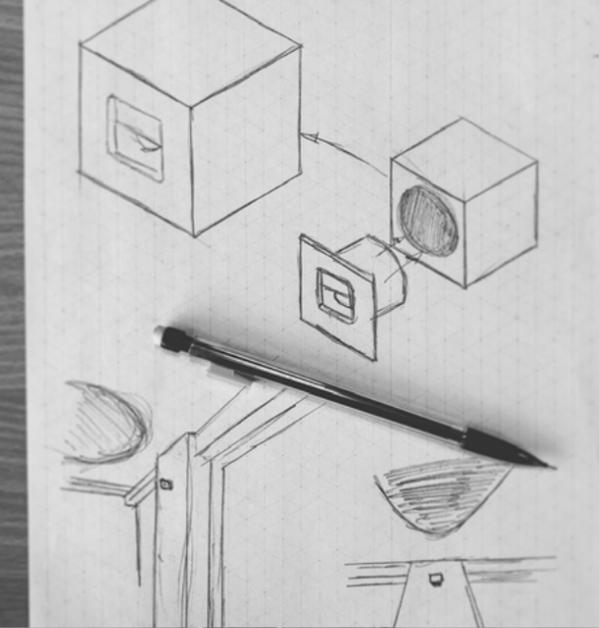


# MANUFACTURED IN THE UK

We are very proud of the fact that all our products are manufactured in the UK which allows us to ensure quality, flexibility on delivery and the production of custom lengths.

- > We manufacture high-quality machined products that are built to last in the harshest environments
- > Our facilities include metalwork, machining, press-work, fabrication, painting, assembly and testing
- > In-house testing facilities ensure the best LED and optic combinations, beam quality and thermal performance
- > 95% of product parts are sourced locally in the UK
- > CB testing certification is currently in progress





# TRUSTED GLOBAL SUPPLIER

Working with marine designers & builders around the world.





## GLOBAL SUPPORT NETWORK

LightGraphix has built relationships with over 30 representatives around the world, including the United Arab Emirates, Saudi Arabia, Australia, New Zealand, Spain, France, Greece, Sweden, Norway, Iceland and many more. Working together, we support them in selling our products and supplying projects in their markets.

# WHY LIGHTGRAPHIX?

With 43 years experience in the lighting industry, we have built up a reputation for high-quality, well made and innovative products backed up by efficient and reliable customer service.

## OUR PRODUCT DNA

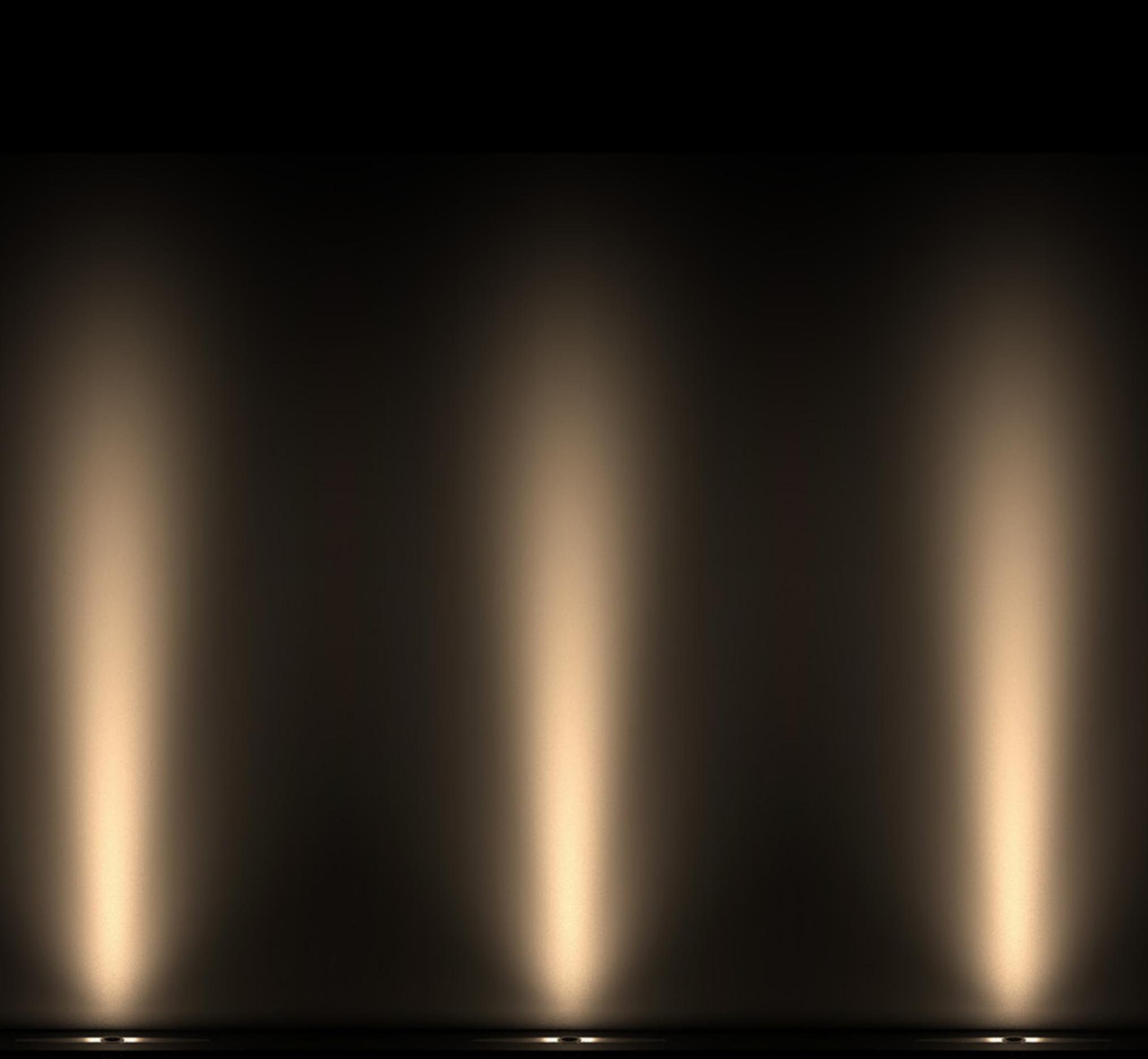
- > Superior beam quality
- > Industry-leading glare control
- > Innovative technology
- > High-quality materials
- > In-house finishes
- > Highly configurable products
- > Custom solutions
- > Sustainably manufactured

OUR PRODUCT DNA

# **SUPERIOR** **BEAM QUALITY**

Achieving the perfect beam angle is at the core of our product design. We do this by ensuring that the LEDs we procure are tightly binned to a 2-step MacAdam Ellipse, providing industry-leading colour consistency across all products.

- > We investigate the best LED and optic combinations
- > We use high efficiency optics for maximum output and superior shape
- > Our beams have soft edges and no multiple shadows
- > Beam quality is assessed on our state-of-the-art goniophotometer machine

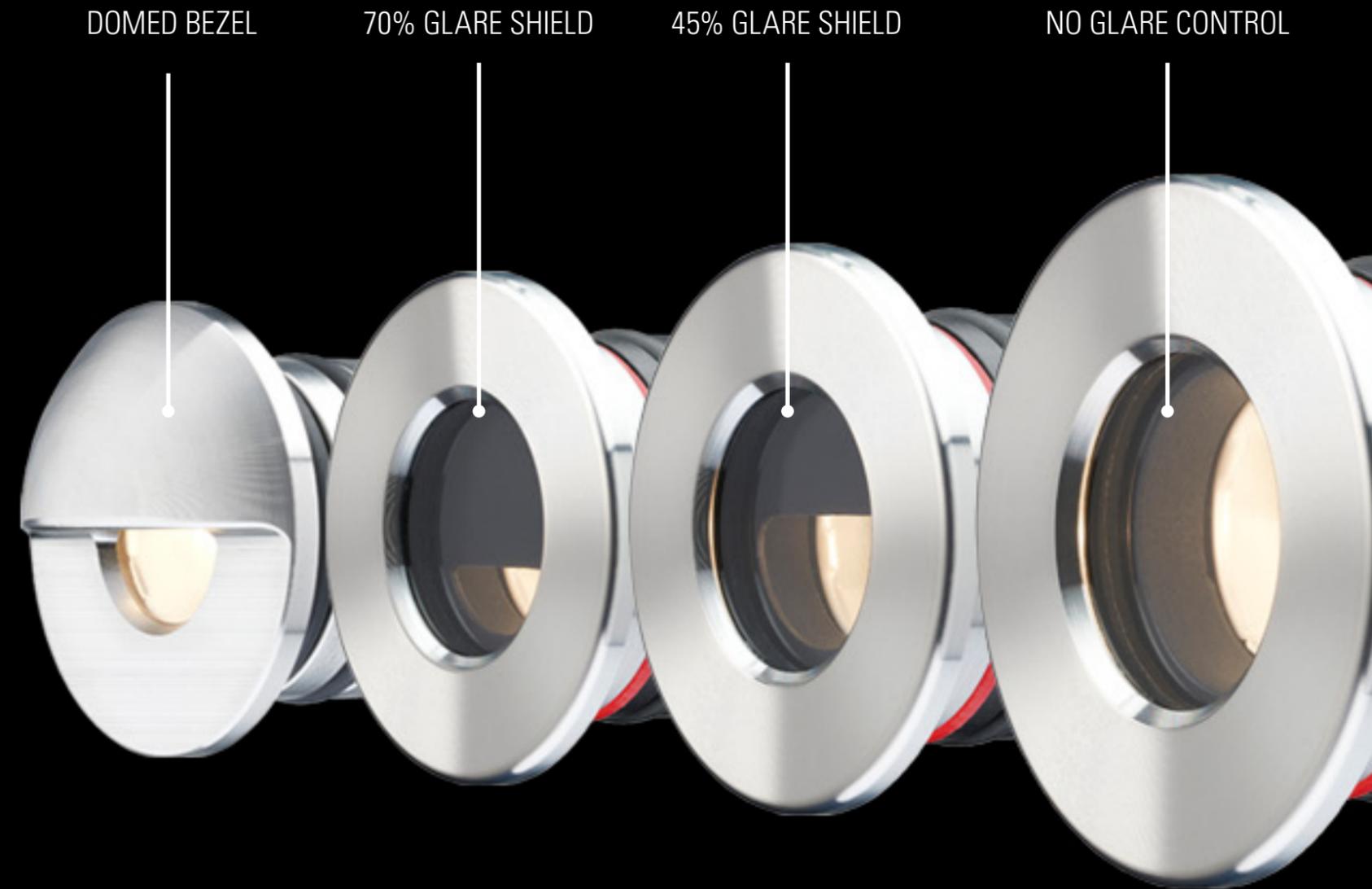


OUR PRODUCT DNA

# INDUSTRY-LEADING GLARE CONTROL

All our products are developed with minimal glare in mind and tested in-house on our gonio-photometer to ensure this.

- > We deep recess LEDs into the body
- > Optional glare shield, honeycomb louvre and cowl accessories
- > Most glare accessories can be easily interchanged
- > Use of tilt films angle the light only where it is needed
- > UGR data available on datasheets



OUR PRODUCT DNA

# INNOVATIVE TECHNOLOGY

LightGraphix products are highly regarded for their expert engineering and high-performance output. We only source the latest LED technology and design products based around the LED chip itself so that the optimal solution for its specific thermal management needs are met.

- > High-performance NICHIA and CREE LEDs
- > 2-step LED binning to guarantee colour consistency
- > LED lifetime figures of 90,000 hours (to 90% lumen maintenance)
- > LightGraphix pioneered LED board
- > Anti-wicking barrier for added water ingress protection
- > Anti-polarity protection on all products
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers

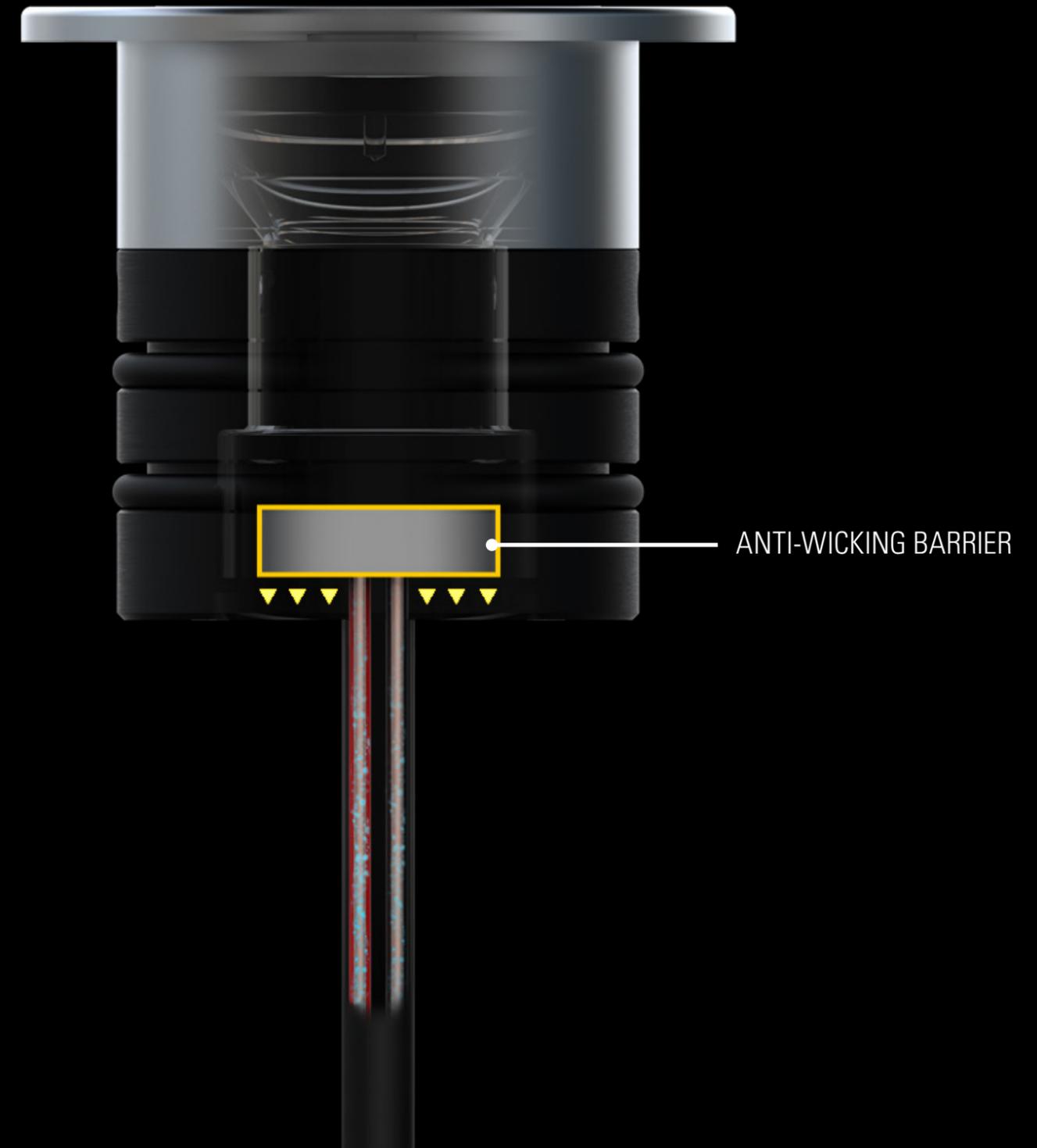


OUR INNOVATIVE TECHNOLOGY

# ANTI-WICKING BARRIER

Our innovative anti-wicking barrier provides an additional level of protection against water ingress by stopping water from reaching the inner components of the fitting, which can cause irreversible damage.

- > Incorrect IP ratings can allow water ingress to travel up the cable and damage the inner components of the fitting
- > The anti-wicking barrier is available on all RLE1 products as well as most of our exterior upright range and in-ground linear products.



OUR PRODUCT DNA

# HIGHLY CONFIGURABLE PRODUCTS

We have created an extensive range of products with multiple LED engine types, beam angles, colour temperatures, finishes and accessories to achieve your exact requirements.

- > Multiple LED engines to suit various project requirements
- > Colour temperatures ranging from 2200K-5000K
- > Variety of narrow to extra oval beam angles options
- > Optional glare control accessories and tilt films
- > Wide range of metal and paint finishes
- > Fixing options for multiple applications



# TECHNICAL RESOURCES & SUPPORT

We make it easy to do business with us. With a dedicated LightGraphix contact and access to our technical support team, our aim is to help you understand our products so that you can achieve the best lit effect with them. A range of easy to access resources are also available on our website.

- > Transparent technical data
- > Easy to understand data sheets and configurators
- > Photometric files and design packs available to download on our website
- > Internal support team for fast turn around on quotes and technical queries
- > Dedicated overseas team for excellent service and technical support

**LightGraphix**  
Creative Lighting Solutions

## LD51

### WHITE LED ENGINE SPECIFICATION

Engine	C1
Beam angles	12°, 31°, 48°
LED manufacturer	NICHIA
Colour temperature	2200K / 27
Current	356mA
LED power (Max)**	1.2W
Delivered lumens (L <sub>total</sub> *)	108
Lumens per circuit watt	90
Forward voltage (V <sub>val</sub> )	3V
CRI (Typ)	92
Colour consistency	
Peak intensity	
LED Lumens	
LOR	
TMSD	
UGR***	
LED lifetime	
Applications	

This data is based on a LD51-C1-700-4W30-NB  
\*Lumen output data applies to all colour temper  
\*\*Indicates the nominal power for the LED run t  
\*\*\* UGR values based on room parameters of 7

### KEY FEATURES

- > High-power C1 light engine featuring NICHIA LED delivering upto 180lm and 90+ CRI
- > LED and high efficiency optic assembly recessed for reduced glare
- > Optional glare cowl accessory can be rotated to prevent glare from selected angles
- > 134° tilt mechanism on adjustable fixing methods
- > Machined from aluminium and available in the following paint finishes: White (RAL 9016), Black (RAL 9005), Silver, Antique Bronze, Satin Antique Brass, Satin Brass and Anthracite Grey (RAL 7016) or any RAL finish
- > 5 mounting methods including fixed and adjustable ground spikes
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

### DIMENSIONS

For fixing dimensions please go to page 5

*Dimensions in mm*

**LD51**  
MINIATURE SURFACE MOUNTED ADJUSTABLE LED SPOTLIGHT

LD51 is a discreet, miniature surface mounted adjustable LED spotlight, with the versatility to meet a large range of application requirements. It has been specified on many of our most prestigious projects. The high-power LED is focused with a range of optics that offer excellent beam shape at various angles, thanks to a lockable tilt mechanism, that angles the fitting in the direction of the lit surface. It is manufactured from high quality machined components with glare control accessories and 5 fixing methods available, making it ideal for a variety of interior and exterior projects.

Design: Lighting Design International  
Project: Kingston Ferry London Hotel  
Product: LD51  
Photography: Garry Pennington

T: +44 (0)1322 527 629 E: [light@lightgraphix.co.uk](mailto:light@lightgraphix.co.uk) www.lightgraphix.co.uk  
Data sheet issued: 9 March 2022 | Issue 7

LIAS ASSOCIATED COMPANY

OUR PRODUCT DNA

# HIGH-QUALITY MATERIALS

All our products are machined from solid marine-grade metals to ensure the highest quality and best thermal performance. With over 40+ years' experience supplying lighting projects, we have used knowledge of how materials perform in different environments to develop a range of high-quality and unique finishes, for interior and exterior marine applications.

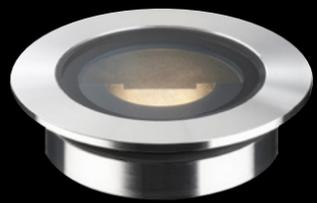
- > Machined marine-grade 316 stainless steel components
- > Aluminium bodies are hard anodised to 50 microns
- > Materials selected for their excellent thermal performance
- > Stainless steel can be passivated to increase protection against corrosion
- > Watertight fixing methods include first fix plastic sleeves to prevent galvanic corrosion
- > Materials tested within ambient temperatures of -20° to 45° (drive currents vary)



# MARINE-GRADE MACHINED FINISHES

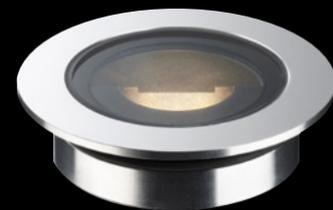
Our materials are selected to work in the toughest environments in extreme heat and cold, salt and chlorine, water and dust.

Metal components are machined to ensure the highest quality. We complete all our painting in-house and can colour match to any shade provided. Chrome, nickel and copper plating is also possible.



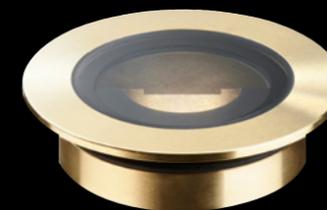
## 316 STAINLESS STEEL

- > Marine-grade 316 Steel
- > Standard machined finish
- > Extremely durable with very high corrosion resistance
- > Passivation is recommended to further strengthen the existing high corrosion resistance, if the fitting is to be continuously subjected to salt water
- > Interior & exterior use



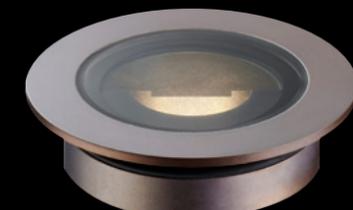
## POLISHED & PASSIVATED 316 STAINLESS STEEL

- > Marine-grade 316 Steel
- > Pristine mirror like finish
- > Extremely durable with very high corrosion resistance
- > Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- > Interior & exterior use



## MACHINED BRASS

- > Solid CZ121 Brass
- > Standard machined finish
- > Corrosion resistance rated fair to excellent
- > Please note a natural green/brown patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location
- > Interior & exterior use



## FLAMED SOLID BRONZE

- > Solid Bronze
- > Hand finished Flamed Bronze unique to LightGraphix
- > Extremely durable with very high corrosion resistance
- > Please note a natural dark patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location
- > Interior & exterior use



# MARINE-GRADE POLISHED FINISH

To achieve a flawless polished finish on our bezels, we developed marine-grade polishing. It creates a pristine mirror like finish from the additional step of lapping the already smooth bezel in a diamond liquid, to totally remove any machine marks.



STANDARD  
POLISHING

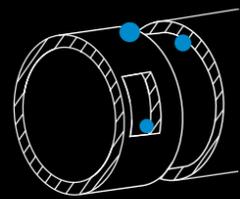


MARINE  
GRADE



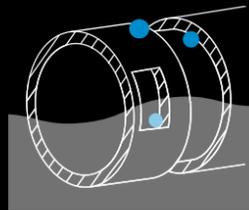
# MARINE-GRADE PASSIVATION PROTECTION

We understand the corrosive power of the sea, which is why we encourage fittings to be passivated for ultimate protection and longevity, although 316 stainless steel alone is still highly resistant to corrosion. Passivation forms a protective chemical oxide layer after removing iron from the metal's surface, improving corrosion resistance.



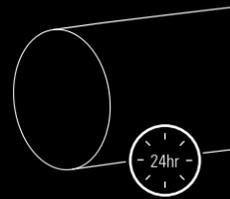
## NON-PASSIVATED STEEL

316 stainless steel alone is suitable for marine environments as it has a high concentration of molybdenum and nickel, but a passivated piece of metal which has been further treated will add a deeper layer of protection by removing all surface iron.



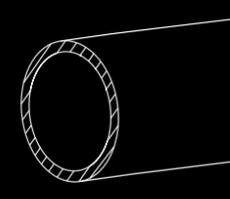
## REMOVAL OF SURFACE IRON

To remove the iron on the surface of the stainless steel, the metal is placed in an nitric acid or citric acid immersion bath to fully dissolve any free irons and sulfides.



## STRIPPED DOWN TO THE BARE METAL

After the metal has been submerged in the acid bath for around 30 minutes, it can be removed and washed in a chloride free rinse. The chromium content in the steel will then begin to react with the air.



## PASSIVATED STAINLESS STEEL

It can take between 8-24 hours for the stainless steel to oxidise and form the chromium oxide layer. This passive layer is what makes the metal resilient to further oxidisation, prolonging it's lifetime by decades.

[WATCH VIDEO](#)



# MARINE-GRADE PAINT FINISHES

We can offer paint finishes that are suitable for the interior or exterior of your yacht project. We do not recommend Wet Spray for exterior applications. Our standard colours are below but we can accommodate any RAL.

EXTERIOR  
POWDER COAT



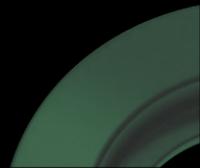
WHITE  
(RAL 9016)



BLACK  
(RAL 9005)



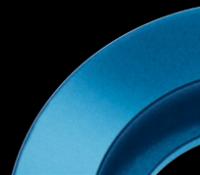
CLASSIC BRONZE  
(YM262E)



TEXTURED FIR GREEN  
(RAL 6009)



GUNMETAL GREY  
(RAL 7021)



ANY RAL COLOUR

INTERIOR  
WET SPRAY



WHITE  
(RAL 9016)



BLACK  
(RAL 9005)



SILVER ANODISED



ANTIQUE BRONZE



SATIN ANTIQUE  
BRASS



SATIN BRASS



ANTHRACITE GREY  
(RAL 7016)

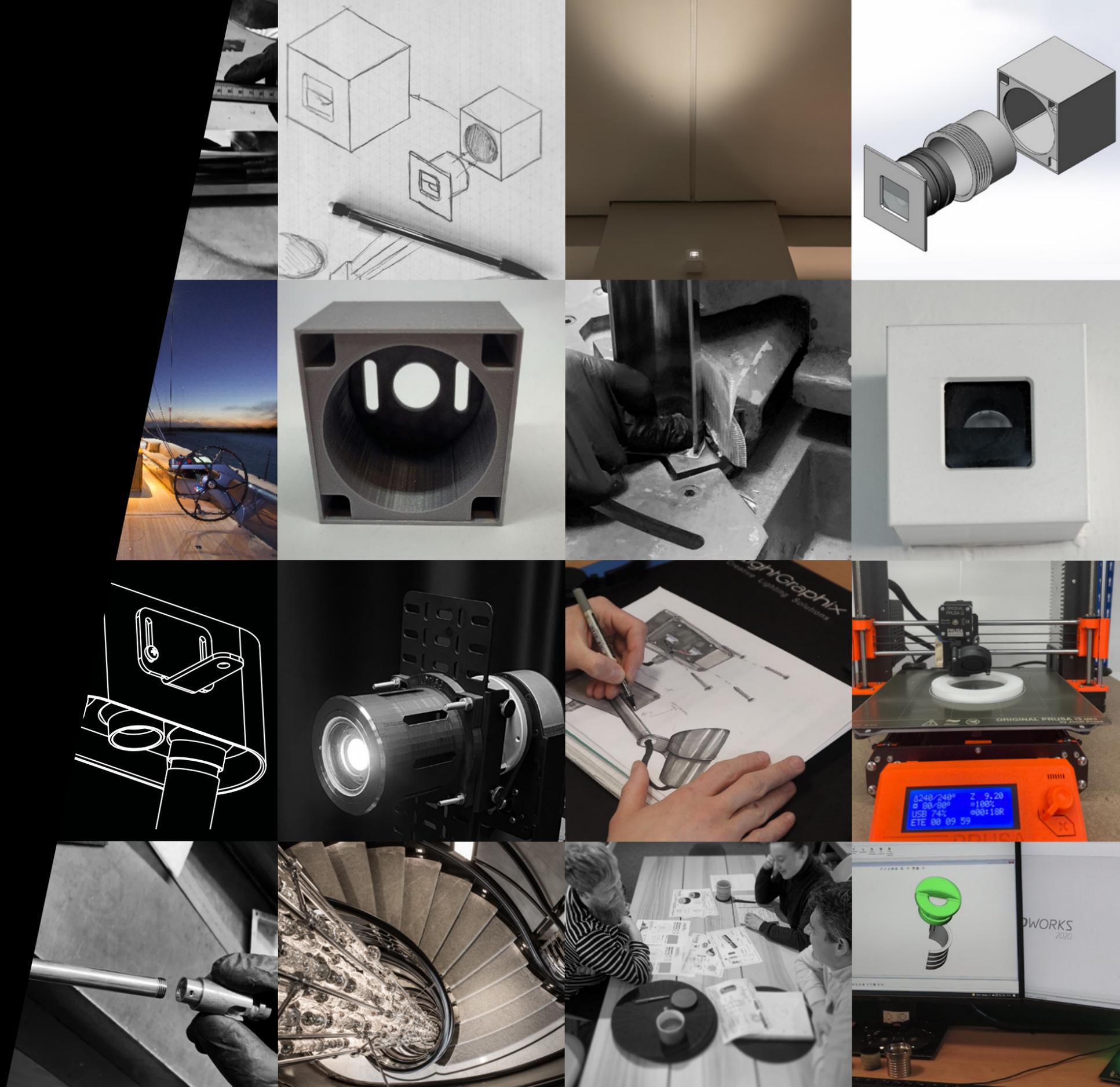


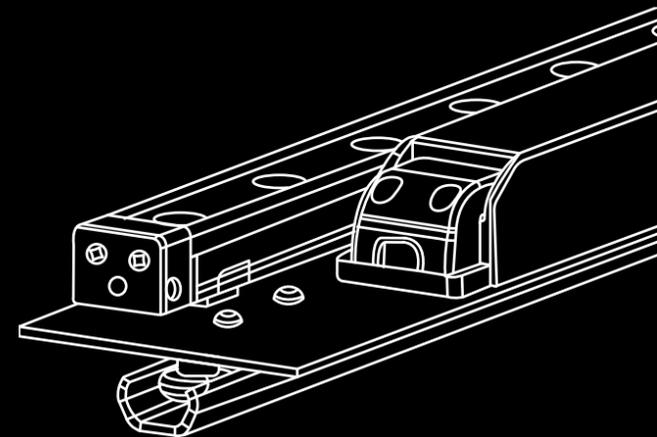
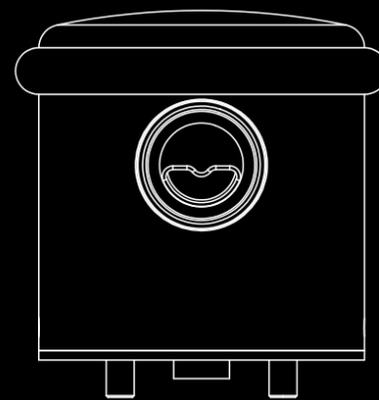
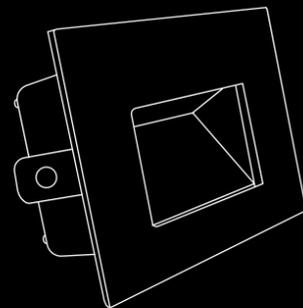
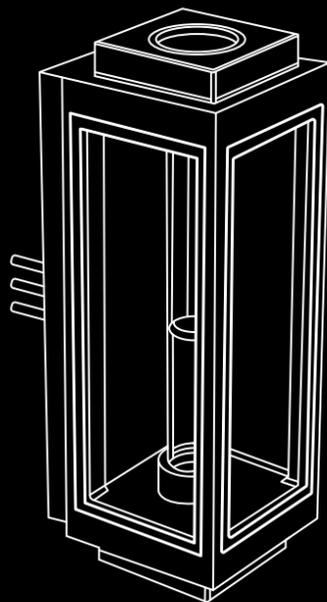
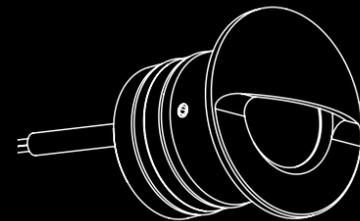
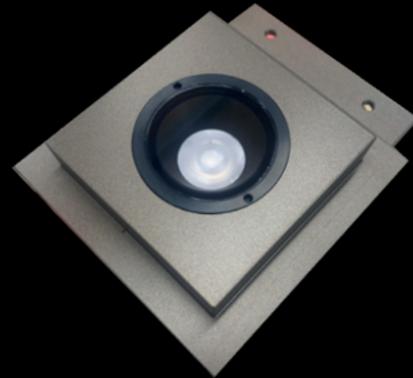
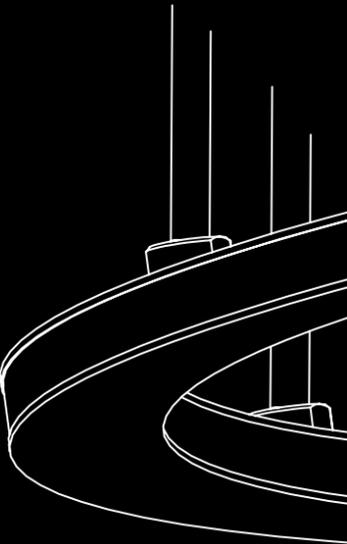
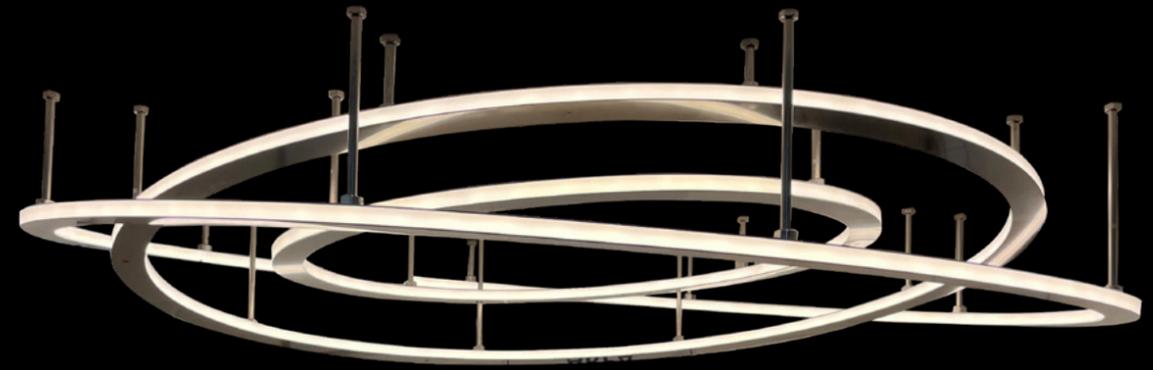
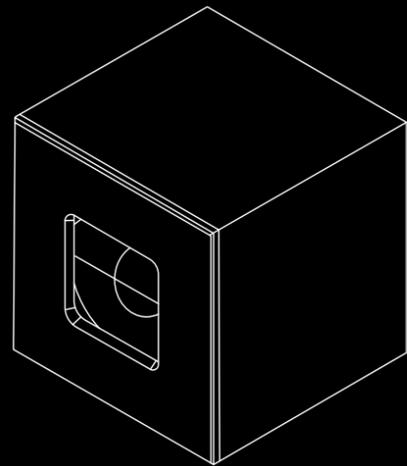
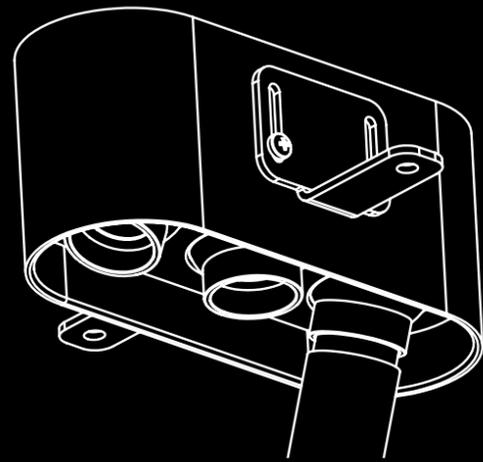
ANY RAL COLOUR

# OUR PRODUCT DNA **CUSTOM SOLUTIONS**

Our dedicated custom design team have created hundreds of bespoke solutions and modifications of existing products to match exacting requirements.

- > Dedicated custom product designer allocated to each project
- > Rapid proto-typing with 3D printers and CNC milling machine
- > Our standard products are machined and not cast allowing cost effective modifications
- > Linear lengths are made to order, up to 1400mm
- > No minimum order requirement





# OUR PRODUCT DNA **SUSTAINABLY MANUFACTURED**

We are committed to a world where lighting innovation and experience combine responsibly to enhance the visual environment. As well as our environmental policy, we have developed circular lighting solutions such as RLE.

- > Where possible recyclable materials are used in our product design
- > Replaceable Light Engine (RLE) technology integrated in miniature products
- > For non-RLE products, we offer a repair and refurbish service (R+R)
- > Locally sourced parts in the UK
- > We have offset over 260 tonnes of CO2 with Ecologi since April 2022 through reforestation and the funding of renewable energy projects
- > Our cardboard packaging is 100% recyclable
- > We reuse all in-bound cardboard within our product packaging



**RLE**   
REPLACEABLE LIGHT ENGINE

*Ecologi*

**R+R**  
REPAIR & REFURBISH



# RLED

REPLACEABLE LIGHT ENGINE



Integrated into exterior  
IP67 rated products



Interchange optics  
or colour temperatures

Easily replace or upgrade  
LED engines whilst onsite

Modular engine insert  
resulting in minimal waste



**BUILD  
BACK  
BETTER**  
PLATINUM

**BUILD  
BACK  
BETTER**  
GREEN

# R+R

REPAIR & REFURBISH

Any products that are not supported by us, can be repaired in-house under our Repair + Refurbish scheme.

*This service includes:*

- > Removing small artificial defects from bezels
- > Repainting of bezel and surface mounted products
- > Repolishing bezels
- > LED engine repair where possible\*

\*Due to the way we seal our products to achieve high IP Ratings it is not always possible to access the engine

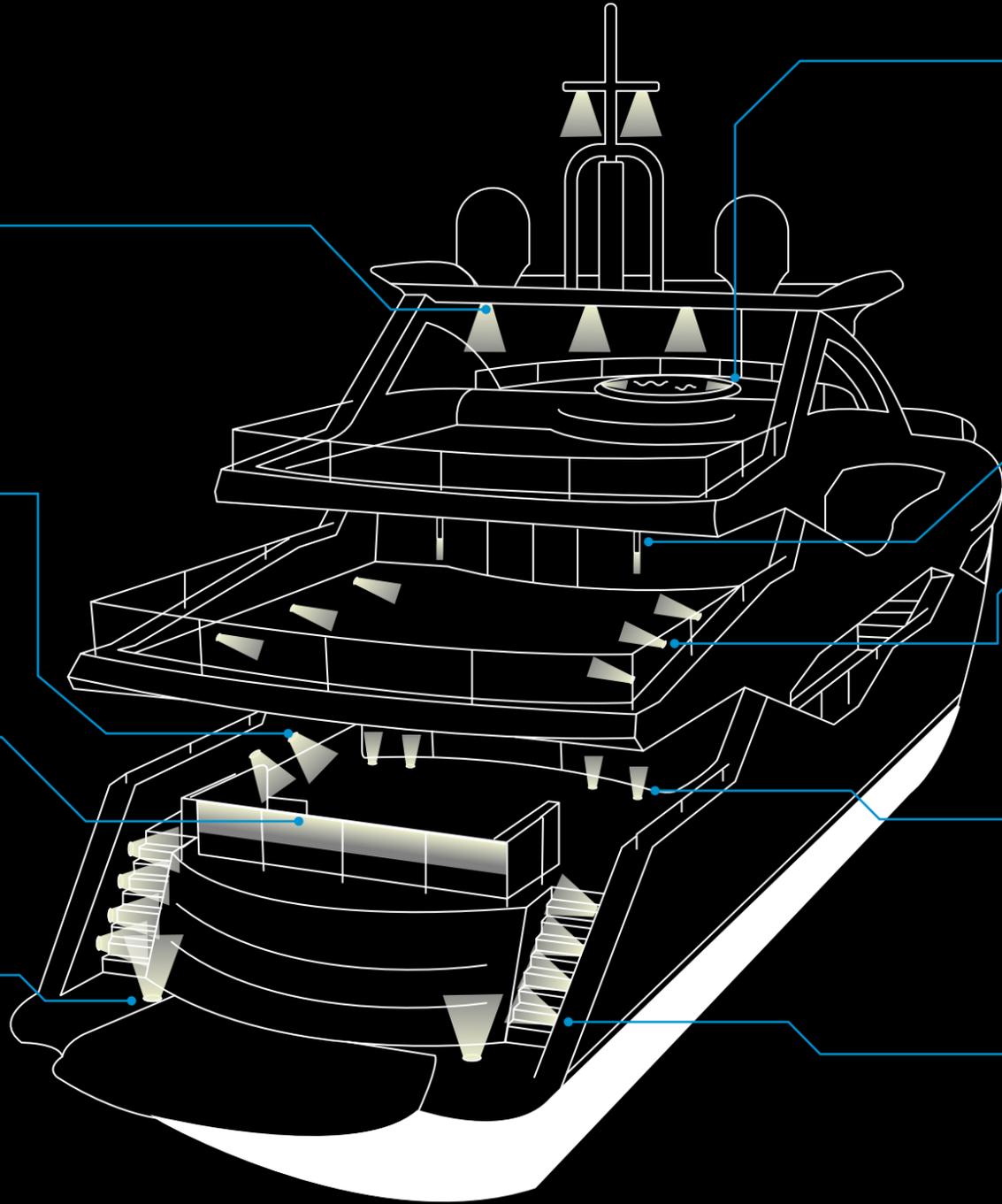


# LIGHTGRAPHIX PRODUCTS

We are industry-leaders in technology and innovation, developing high performance products that deliver only the best beam quality, colour consistency and glare solutions.

# YACHT EXTERIOR

Product application guide



### DOWNLIGHTING



LD1083 LD1094 LD197

### BULWARK LIGHTING



LD170 LD47 LD48 LD57 LD42A

### LINEAR



LD11 LD LINE 15

### UPLIGHTING



LD190 LD151 LD151T LD154/T/DR

LD155 LD56 LD56T

### POOL LIGHTING



LD242A LD242ARGB

### WALL LIGHTING



LD10236 LD10237 LD96 LD97

### INDICATOR LIGHTING



LD61 LD62 LD64 LD65

### MINIATURE UPLIGHTING



LD43DR LD43 LD44X

### STEP LIGHTING



LD42W LD42A LD42D LD44Y

RLE

LOW GLARE INTERIOR/EXTERIOR  
IN-GROUND LED UPLIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.1W (2.4W)
Delivered lumens (L <sub>100</sub> )	180
Lumens per circuit watt	86
Peak intensity	1057 cd
LED Lumens	206
LOR	180

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLE

LOW GLARE INTERIOR/EXTERIOR  
IN-GROUND LED UPLIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	177
Lumens per circuit watt	74
Peak intensity	1075 cd
LED Lumens	206lm
LOR	0.86
UGR	15.4

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



RLE

TILTED INTERIOR/EXTERIOR  
IN-GROUND RECESSED LED UPLIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	177
Lumens per circuit watt	74
Peak intensity	1075 cd
LED Lumens	206lm
LOR	0.86
UGR	15.4

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



HIGH-POWER INTERIOR/EXTERIOR  
LED UPLIGHT



Engine	⊕ E3	⊙ F1
Beam angles	12°, 19°, 34°, 54°, 49° x 15°	25°, 46°, 65°, 43° x 25°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K
Current	700mA	700mA
LED power (Max)*	8.4W (10W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	647	348
Lumens per circuit watt	65	50
Peak intensity	6890 cd	1664 cd
LED Lumens	840lm	623lm
LOR	0.77	0.63
UGR	7.0	9.1

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



HIGH-POWER TILTED  
INTERIOR/EXTERIOR LED UPLIGHT



Engine	⊕ E3	⊙ F1
Beam angles	12°, 19°, 34°, 54°, 49° x 15°	25°, 46°, 65°, 43° x 25°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K
Current	700mA	700mA
LED power (Max)*	8.4W (10W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	626	308
Lumens per circuit watt	63	44
Peak intensity	6433 cd	1565 cd
LED Lumens	840lm	623lm
LOR	0.75	0.49
UGR	7.0	9.1

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH-POWER RECESSED EXTERIOR  
LED UPLIGHT



Engine	⊕ E3	⊙ N1	⊙ P1
Beam angles	9°, 11°, 22°, 29°, 42°, 53°, 10° x 56°	13°, 24°, 31°, 45°, 54°, 13° x 58°	20°, 27°, 33°, 47°, 58°, 19° x 60°
Colour temperature	2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K
Current	700mA	700mA	500mA
LED power (Max)*	8.4W (10W)	11.6W (14W)	18.0W (20W)
Delivered lumens (L <sub>100</sub> )	699	1028	1443
Lumens per circuit watt	83	89	80
Peak intensity	15922 cd	13809 cd	10624 cd
LED Lumens	840lm	1393lm	2303lm
LOR	0.83	0.74	0.63
UGR	8.8	10.1	11.9

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

TILTED HIGH-POWER RECESSED  
EXTERIOR LED UPLIGHT



Engine	⊕ E3	⊙ N1	⊙ P1
Beam angles	10°, 12°, 23°, 30°, 44°, 62°, 11° x 46°	14°, 25°, 31°, 45°, 62°, 14° x 46°	20°, 28°, 34°, 48°, 63°, 20° x 46°
Colour temperature	2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K
Current	700mA	700mA	500mA
LED power (Max)*	8.4W (10W)	11.6W (14W)	18.0W (20W)
Delivered lumens (L <sub>100</sub> )	631	851	1375
Lumens per circuit watt	75	73	76
Peak intensity	13539 cd	10837 cd	10060 cd
LED Lumens	840lm	1393lm	2303lm
LOR	0.75	0.61	0.60

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

DEEP RECESSED HIGH-POWER  
EXTERIOR LED UPLIGHT



Engine	⊕ E3	⊙ N1	⊙ P1
Beam angles	9°, 11°, 22°, 29°, 42°, 56°, 10° x 39°	13°, 24°, 31°, 41°, 55°, 14° x 39°	20°, 27°, 31°, 42°, 55°, 19° x 41°
Colour temperature	2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K
Current	700mA	700mA	500mA
LED power (Max)*	8.4W (10W)	11.6W (14W)	18.0W (20W)
Delivered lumens (L <sub>100</sub> )	684	853	1285
Lumens per circuit watt	81	74	71
Peak intensity	15096 cd	11052 cd	8459 cd
LED Lumens	840lm	1393lm	2303lm
LOR	0.81	0.61	0.56
UGR	7.3	7.6	10.2

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH-POWER ADJUSTABLE INTERIOR/  
EXTERIOR RECESSED LED UPLIGHT



Engine	⊕ E3	⊙ N1	⊙ F1
Beam angles	12°, 31°, 48°, 12° x 36°	25°, 35°, 46°, 65°, 22°x 43°	25°, 46°, 65°, 18°x 45°
Colour temperature	2700K/ 3000K/ 4000K/ 5000K	2200K/ 2700K/ 3000K/ 4000K/ 5000K	2200K
Current	700mA	700mA	700mA
LED power (Max)*	8.4W (10W)	13.3W (14W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	583	853	383
Lumens per circuit watt	58	61	56
Peak intensity	5780 cd	2974 cd	1706 cd
LED Lumens	840lm	1393lm	623lm
LOR	0.69	0.62	0.61
UGR	10.5	10.5	10.5

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLEQ

MINIATURE IN-GROUND  
LED PATH MARKER



Engine	⦿ C1
Beam angles	120°
Colour temperature	2200K / 2700K / 3000K / 5000K
Current	500mA
LED power (Max)*	1.7W

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLEQ

MINIATURE IN-GROUND  
LED PATH MARKER



Engine	⦿ C1
Beam angles	2 x 120°
Colour temperature	2200K / 2700K / 3000K / 5000K
Current	500mA
LED power (Max)*	1.7W



HIGH-POWER SURFACE MOUNTED ADJUSTABLE  
INTERIOR/EXTERIOR LED SPOTLIGHT



Engine	⊕ E3	⊙ N1	⊙ F1
Beam angles	12°, 19°, 34°, 54°, 15°x 49°	25°, 35°, 46°, 65°, 22°x 43°	25°, 46°, 65°, 18°x 45°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K	2200K
Current	700mA	700mA	700mA
LED power (Max)*	8.4W (10W)	13.3W (14W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	653	891	367
Lumens per circuit watt	65	64	52
Peak intensity	6104 cd	2922 cd	1641 cd
LED Lumens	840lm	1393lm	623lm
LOR	0.78	0.64	0.59
UGR	10.5	10.5	10.5

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



HIGH-POWER SURFACE MOUNTED  
WALL WASHER



Engine	⊕ E3	⊙ F1
Beam angles	12°, 19°, 34°, 54°, 15°x 49°	25°, 46°, 65°, 18° x 45°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K
Current	700mA	700mA
LED power (Max)*	8.4W (10W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	653	367
Lumens per circuit watt	65	52
Peak intensity	6104 cd	1641 cd
LED Lumens	840lm	623lm
LOR	0.78	0.63
UGR	8.0	8.1

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLEQ

ULTRA-LOW GLARE MINIATURE  
SEMI-RECESSED DOMED LED WALL LIGHT



	LD42D	LD42DA
Engine	☉ C1	☉ C1
Beam angles	12°, 31°, 50°, 30° x 66°	26°, 31°, 40°, 25° x 57°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA	500mA
LED power (Max)*	1.7W	1.7W
Delivered lumens (L <sub>100</sub> )	73	69
Lumens per circuit watt	49	46
Peak intensity	448 cd	371 cd
LED Lumens	157lm	157lm
LOR	0.34	0.32

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLEQ

LOW GLARE MINIATURE RECESSED  
INTERIOR & EXTERIOR LED WALL LIGHT

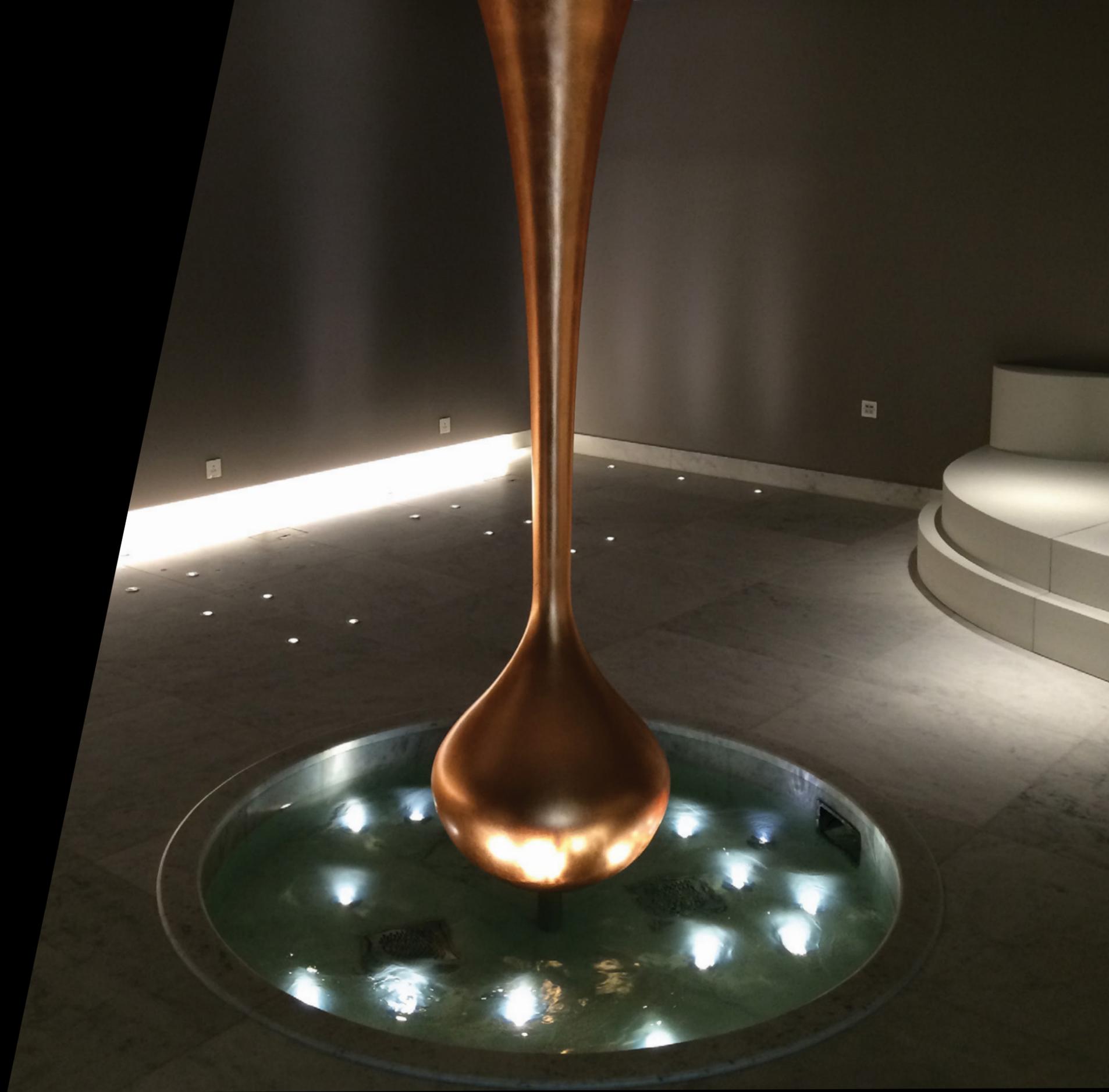


Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.1W (2.4W)
Delivered lumens (L <sub>100</sub> )	180
Lumens per circuit watt	86
Peak intensity	1057 cd
LED Lumens	206
LOR	180

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

RLEQ

UNDERWATER LED  
POOL LIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K** / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	174
Lumens per circuit watt	73

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH-POWER FIXED EXTERIOR  
RECESSED LED DOWNLIGHT



Engine	⊕ E3	⊙ N1
Beam angles	12°, 20°, 34°, 55°, 12° x 49°	25°, 35°, 46°, 22° x 43°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA	700mA
LED power (Max)*	8.4W (10W)	13.3W (14W)
Delivered lumens (L <sub>100</sub> )	697	905
Lumens per circuit watt	70	64
Peak intensity	6749 cd	3622 cd
LED Lumens	840lm	1393lm
LOR	11.1	13.9

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH-POWER ADJUSTABLE INTERIOR/  
EXTERIOR RECESSED LED DOWNLIGHT



Engine	⊕ E3	⊙ N1
Beam angles	12°, 20°, 34°, 55°, 12° x 49°	25°, 35°, 46°, 22° x 43°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA	700mA
LED power (Max)*	8.4W (10W)	11.6W (14W)
Delivered lumens (L <sub>100</sub> )	579	755
Lumens per circuit watt	58	65
Peak intensity	5768 cd	2690
LED Lumens	840lm	1393lm
LOR	0.69	13.9

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

MID-POWER RECESSED EXTERIOR  
YACHT LED DOWNLIGHT



	LD197 (Lambertian reflector)	LD197A (Asymmetric reflector)
Engine	 C1	 C1
Beam angles	87°	82°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA	700mA
LED power (Max)*	6.3W (7W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	413	350
Lumens per circuit watt	66	56
Peak intensity	196 cd	176 cd
LED Lumens	623	623
LOR	0.63	0.54
UGR	25.3	-

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH POWER ULTRA SHALLOW  
ADJUSTABLE RECESSED DOWNLIGHT



Engine	⦿ 3 x C1
Beam angles	22°, 30°, 40°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA
LED power (Max)*	5.1W
Delivered lumens (L <sub>100</sub> )	357
Lumens per circuit watt	71

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH POWER ULTRA SHALLOW  
RECESSED DOWNLIGHT



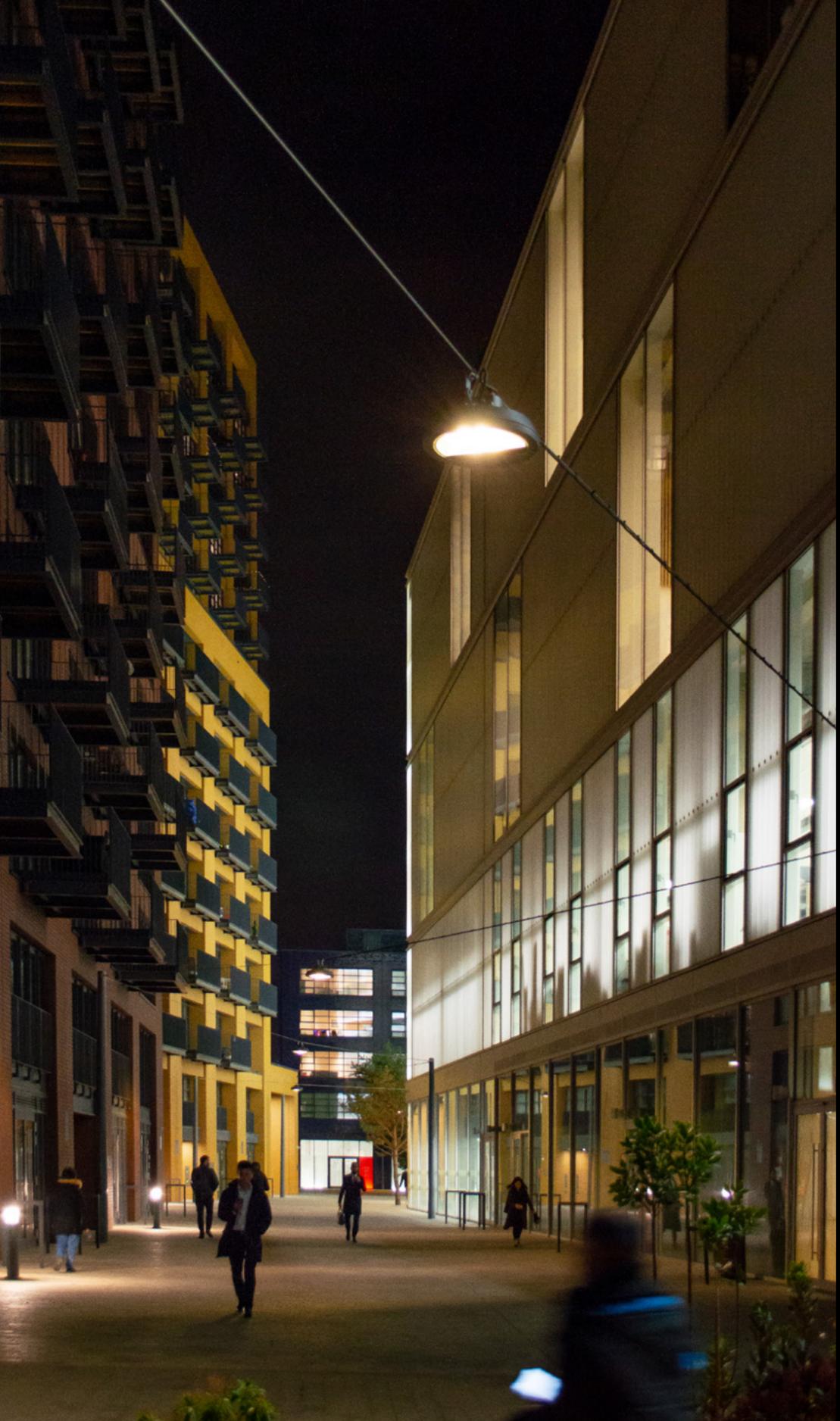
Engine	⦿ 3 x C1
Beam angles	22°, 30°, 40°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA
LED power (Max)*	5.1W
Delivered lumens (L <sub>100</sub> )	357
Lumens per circuit watt	71

HIGH-POWER INTERIOR/EXTERIOR  
IN-GROUND LED LINEAR WALL GRAZER



Engine	 Linear C1
Beam angles	12°, 31°, 48°, 12° x 36°, 15° x 60°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	
50mm spacing	3263
75mm spacing	2170
100mm spacing	1623
Lumens per circuit watt	68
Peak intensity	18,058 cd
LED lumens (per LED)	206lm
LOR	0.79

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



HIGH-POWER IN-GROUND MAINS-IN  
LED LINEAR WALL GRAZER



Engine	 Linear C1		
Beam angles	12°, 31°, 48°, 12° x 36°, 15° x 60°		
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K		
Current	700mA		
Length (50mm LED spacing)	600mm	900mm	1200mm
Delivered lumens (L100)	1958	2937	3916
LED power (Max)*	29W	43W	58W
Lumens per circuit watt	68		
Peak intensity	18,058 cd		
LED lumens (per LED)	206lm		
LOR	0.79		

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

HIGH-POWER MOUNTED EXTERIOR  
LED LINEAR SURFACE GRAZER

—● LD38S

—● LD38C



Engine	 Linear C1
Beam angles	12°, 31°, 48°, 12° x 36°, 15° x 60°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	
50mm spacing	3760
75mm spacing	2500
100mm spacing	1880
Lumens per circuit watt	78
Peak intensity	20,806 cd
LED lumens (per LED)	206lm
LOR	0.94

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



# YACHT INTERIOR

Product application guide

## WALL LIGHTING



LD10236 LD10237 LD96 LD97

## SHELF LIGHTING



LD70 LD70-OP LD70D

## UPLIGHTING



LD151 LD151T LD155 LD56 LD56T

## MINIATURE UPLIGHTING



LD43DR LD44X LD43

## DOWNLIGHTING



LD1080 LD1082 LD1090 LD1092



LD780 LD782 LD790 LD792

## MINIATURE DOWNLIGHTING



LD72M LD71M LD72DR LD71DR

## LINEAR

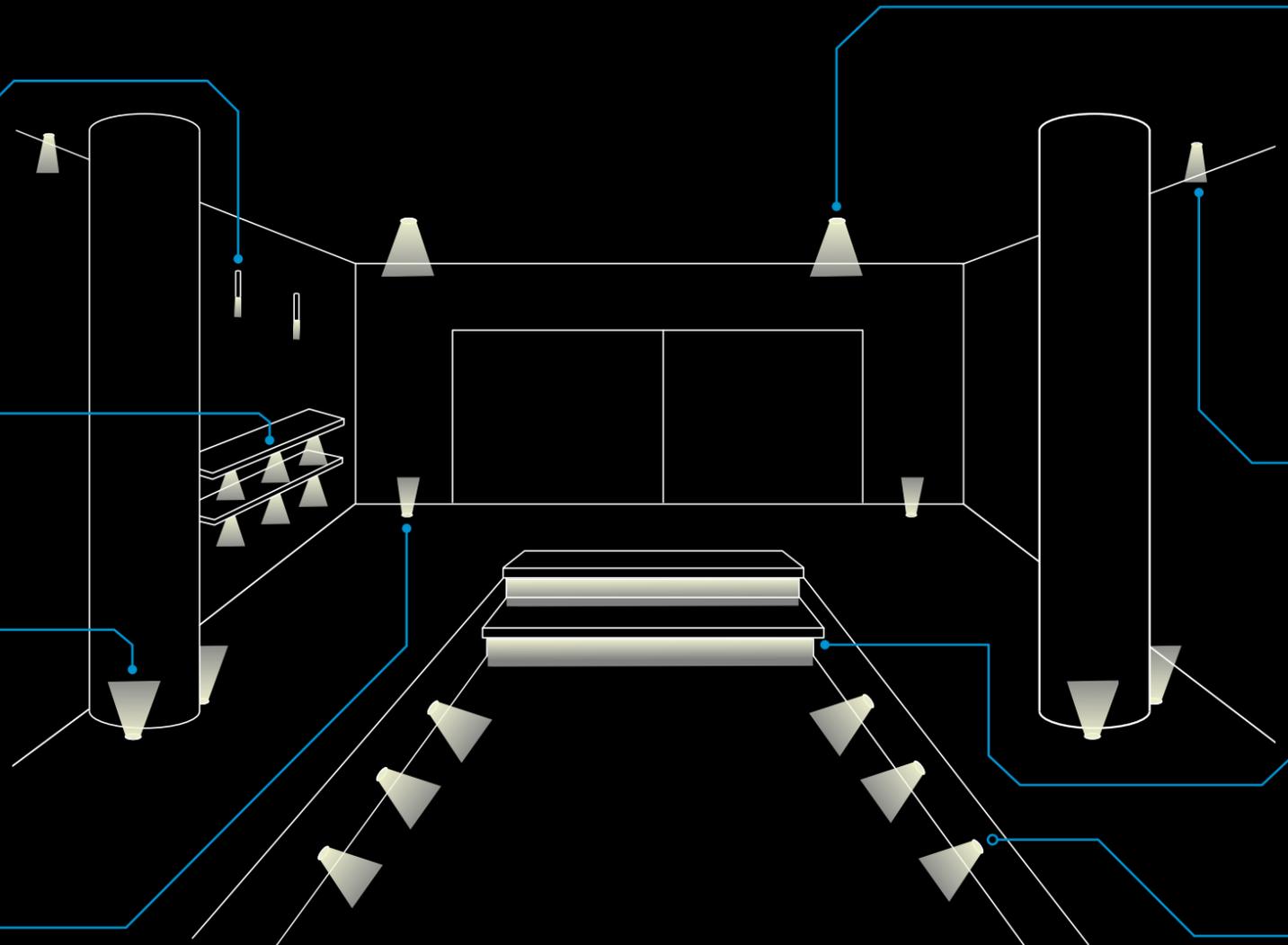


LD11 LD LINE 15

## STEP LIGHTING



LD42W LD42A LD42D LD44Y



HIGH-POWER FIXED & ADJUSTABLE  
INTERIOR RECESSED LED DOWNLIGHT

LD1082



LD1092



	LD1082		LD1092	
Engine	⊕ E3	⊙ N1	⊕ E3	⊙ N1
Beam angles	12°, 20°, 34°, 55°, 12° x 49°	25°, 35°, 46°, 22° x 43°	12°, 20°, 34°, 55°, 12° x 49°	25°, 35°, 46°, 22° x 43°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA	700mA	700mA	700mA
LED power (Max)*	8.4W (10W)	13.3W (14W)	8.4W (10W)	13.3W (14W)
Delivered lumens (L <sub>100</sub> )	697	905	697	905
Lumens per circuit watt	70	64	70	64
Peak intensity	6749 cd	3622 cd	6749 cd	3622 cd
LED Lumens	840lm	1393lm	840lm	1393lm
LOR	0.83	0.73	11.1	13.9

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



LOW GLARE MINIATURE RECESSED  
INTERIOR/EXTERIOR LED UPLIGHT

LD43

LD43W/ LD43A

LD43R / LD43AR



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA
LED power (Max)*	1.7W
Delivered lumens (L <sub>100</sub> )	134
Lumens per circuit watt	79
Peak intensity	1057 cd
LED Lumens	157lm
LOR	0.84
UGR	18.3

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



RLEQ

DEEP RECESSED MINIATURE  
INTERIOR/EXTERIOR LED UPLIGHT



Engine	○ C1
Beam angles	12°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	137
Lumens per circuit watt	57
Peak intensity	9788 cd
LED Lumens	206lm
LOR	0.67
UGR	14.9

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver





LOW GLARE MINIATURE RECESSED  
INTERIOR/EXTERIOR LED WALL LIGHT

LD42



LD42W /LD42A



LD42R / LD42AR

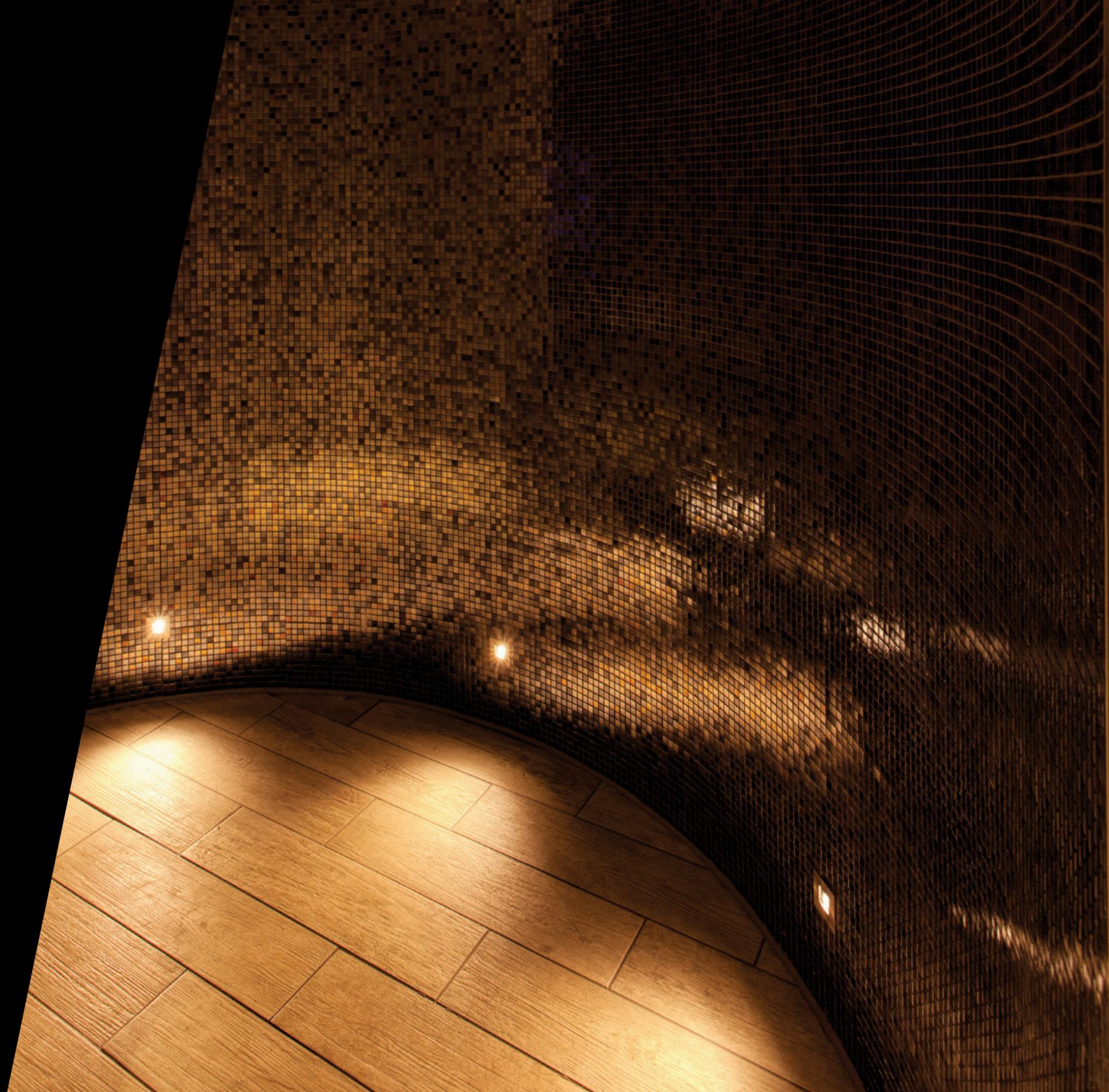
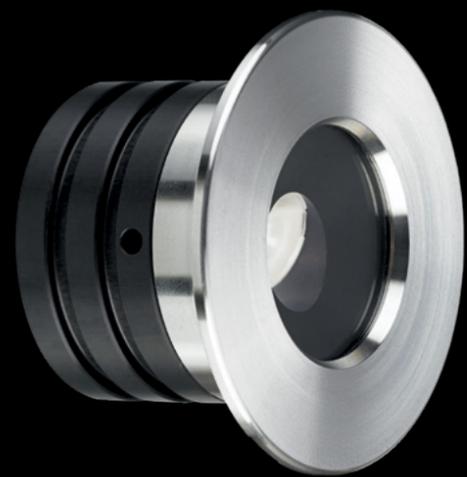


Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA
LED power (Max)*	1.7W
Delivered lumens (L <sub>100</sub> )	134
Lumens per circuit watt	79
Peak intensity	1057 cd
LED Lumens	157lm
LOR	0.84
UGR	18.3

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



LOW GLARE TILTED INTERIOR/ EXTERIOR  
WALL OR STEP LIGHTS



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	177
Lumens per circuit watt	74

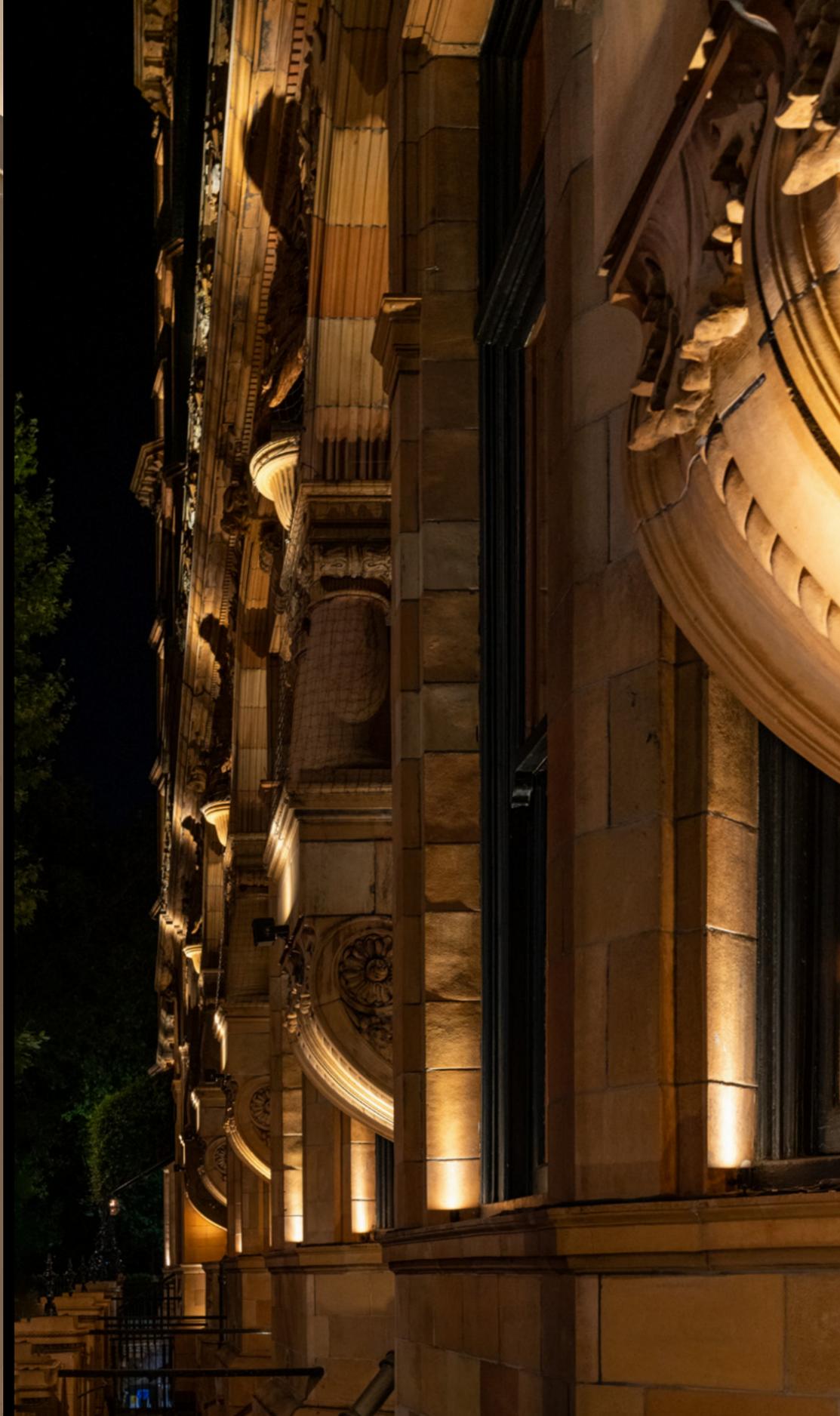
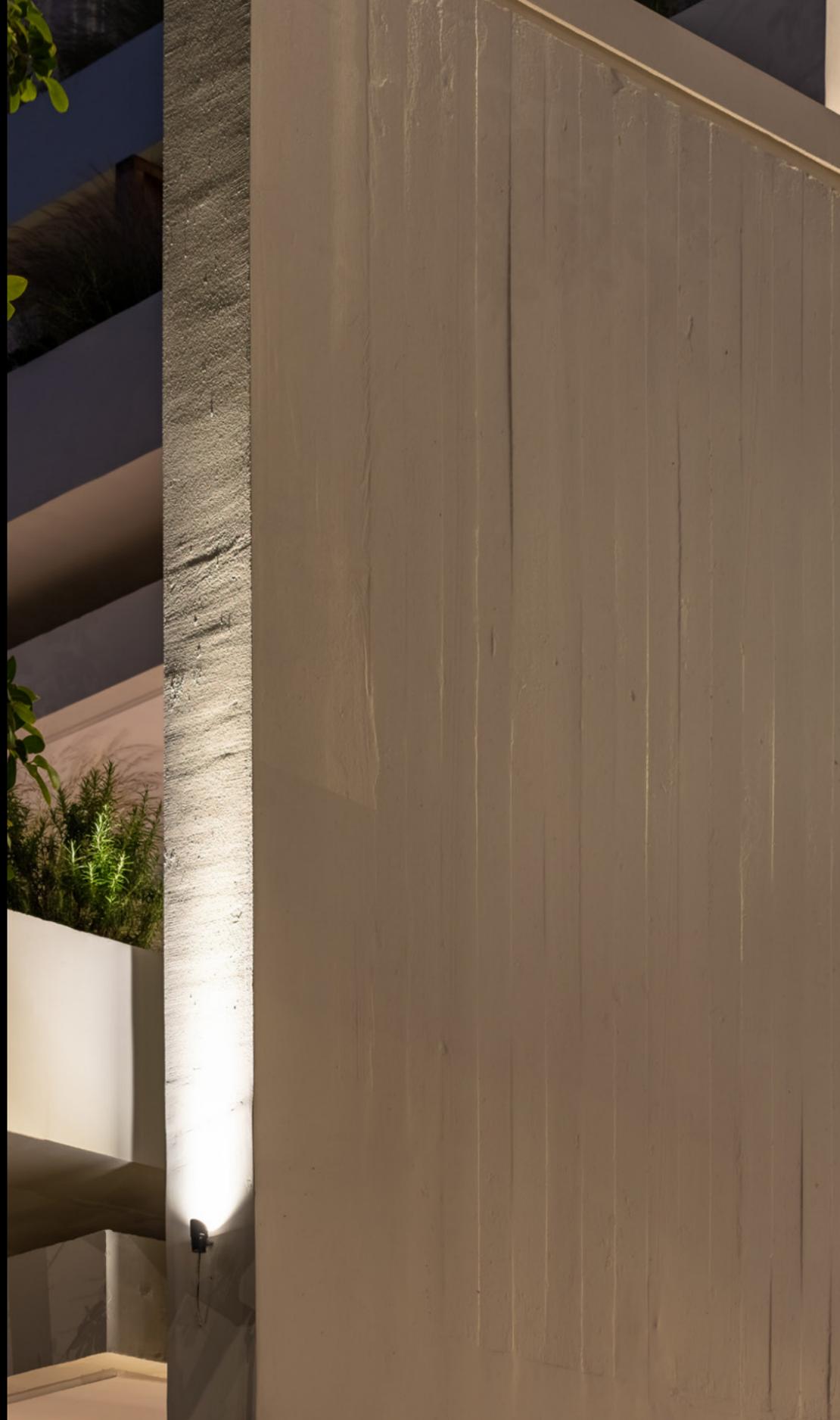
RLEQ

MINIATURE SURFACE MOUNTED  
ADJUSTABLE LED SPOTLIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	188
Lumens per circuit watt	78
Peak intensity	1145 cd
LED Lumens	206lm
LOR	0.91
UGR	19.2

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



ULTRA SHALLOW  
RECESSED SHELF LIGHT



	LD70	LD70-OP	LD70D
Engine	☉ C1	☉ C1	☉ C1
Beam angles	30°, 50°	120°	12°, 34°, 55°
Colour temperature	2700K, 3000K, 4000K, 5000K	2700K, 3000K, 4000K, 5000K	2700K, 3000K, 4000K, 5000K
Current	700mA	700mA	700mA
LED power (Max)*	2.4W	2.4W	2.4W
Delivered lumens (L <sub>100</sub> )	142	60	189
Lumens per circuit watt	59	25	78

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver





FIXED & ADJUSTABLE MINIATURE  
LOW GLARE LED DOWNLIGHT

LD71M



LD72M



LD71DR

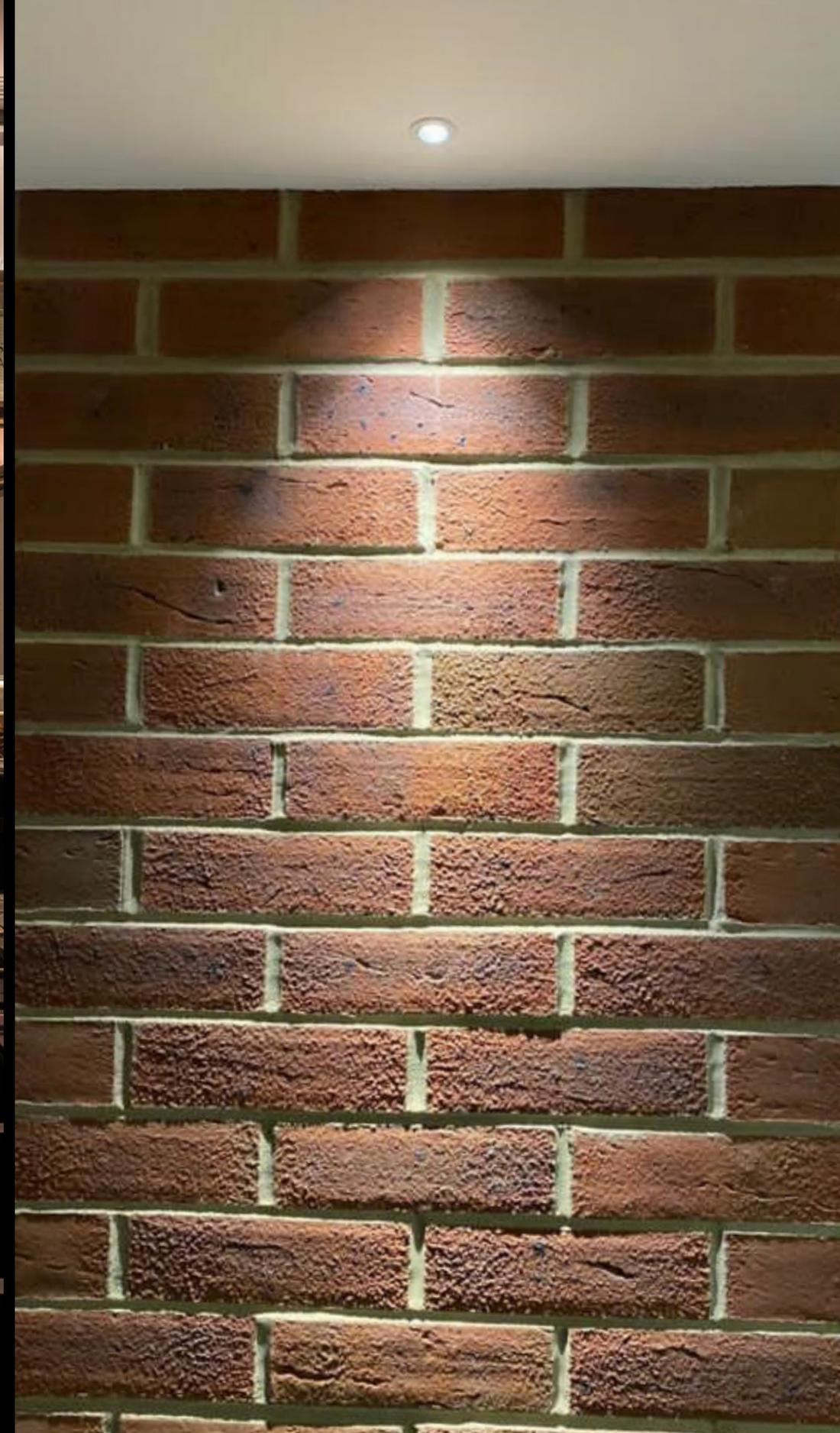


LD72DR



	LD71M / LD72M	LD71DR / LD72DR
Engine	○ C1	○ C1
Beam angles	12°, 31°, 48°	12°, 31°, 48°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA	700mA
LED power (Max)*	2.4W	2.4W
Delivered lumens (L <sub>100</sub> )	196	179
Lumens per circuit watt	82	75

\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver



FIXED & ADJUSTABLE COMPACT  
INTERIOR/EXTERIOR LED DOWNLIGHT

LD780



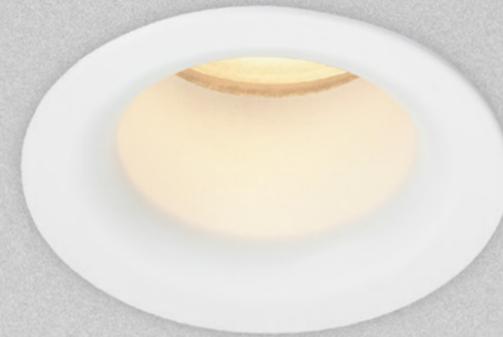
LD790



LD782



LD792



	LD780		LD790		LD782 / LD792	
Engine	⊕ E3	⊙ F1	⊕ E3	⊙ F1	⊕ E3	⊙ F1
Beam angles	12°, 26°	21°, 28°	12°, 26°	21°, 28°	12°, 26°	21°, 28°
Colour temperature	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K	2700K / 3000K / 4000K / 5000K	2200K / 2700K / 3000K / 4000K / 5000K
Current	500mA	700mA	500mA	700mA	500mA	700mA
LED power (Max)*	6W (7W)	6.3W (7W)	6W (7W)	6.3W (7W)	6W (7W)	6.3W (7W)
Delivered lumens (L <sub>100</sub> )	433	420	433	420	414	385
Lumens per circuit watt	62	67	62	67	59	67
Peak intensity	4359 cd	2201 cd	4359 cd	2201 cd	4233 cd	2076 cd
LED Lumens	596lm	1393lm	596lm	715lm	596lm	715lm
LOR	0.73	0.54	0.73	0.59	0.69	0.54
UGR	12.8	18.6	12.8	18.6	7.9	10.3

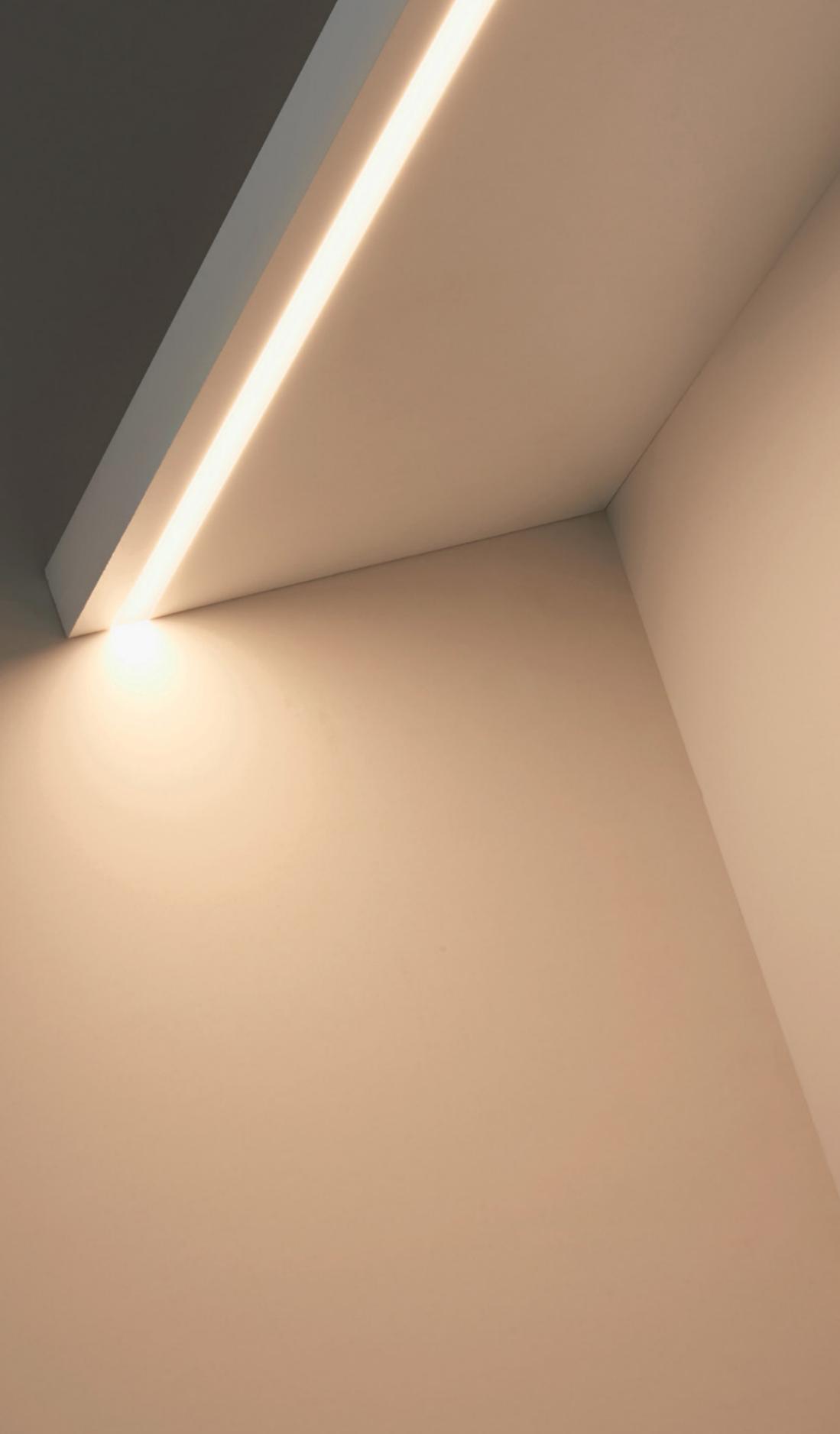
\*Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

MINIATURE LOW PROFILE 24V  
LINEAR LINE OF LIGHT



Engine	 LG800S	
Colour temperature	2700K / 3000K	4000K / 5000K
Delivered lumens / m*	490lm/m	530lm/m
Lumens per watt*	56lm/w	61lm/w
LED spacing	8.3mm	
Min single length	56mm	
Max single length	4006mm	
Watts / m	8.7W/m	

\* Shipping and practicalities of installation need to be considered when specifying long lengths



# YACHT SPREADERS

Product application guide

## SPREADER LIGHTING



LD242

1094

## UPLIGHTING



LD151

LD151T

LD154

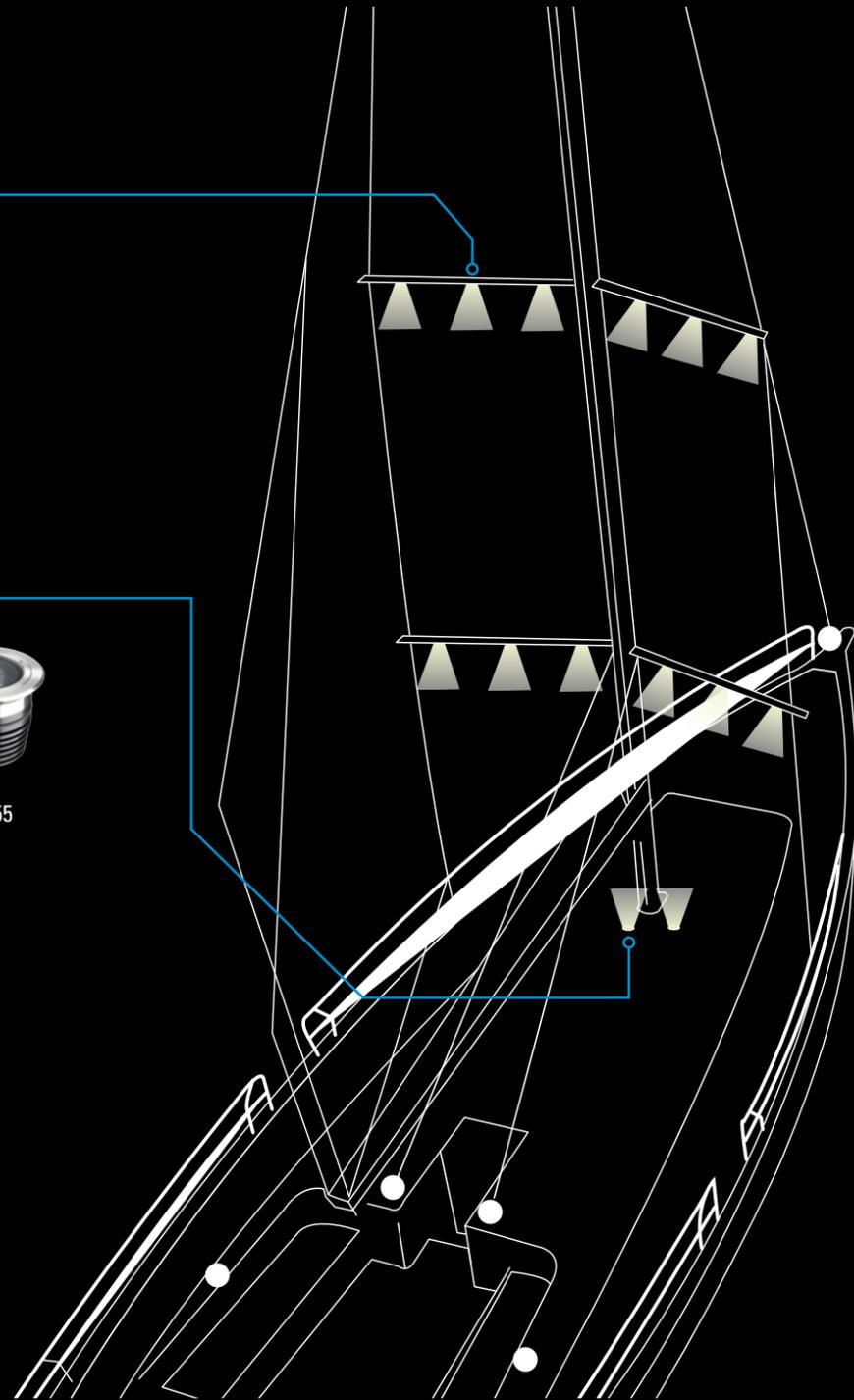
LD155



LD56



LD56T



YACHT SPREADER LED LIGHT



Engine	○ C1
Beam angles	12°, 31°, 48°, 12° x 36°
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K
Current	700mA
LED power (Max)*	2.4W
Delivered lumens (L <sub>100</sub> )	177
Lumens per circuit watt	74

**ANY QUESTIONS?**