Underwater and decorative LED lighting solutions

Greater energy efficiency, less consumption.

- Save up to 95% in energy.
- Service life of up to 100,000 hours.
- Wide range of LED lighting solutions.
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Introduction

SERVICES

Three should be highlighted:
Lighting studies, customised designs and equipment, and our laboratory for developing light testing techniques.

LIGHTING STUDIES

We have a team of fully trained experts able to help you in the design of your project. All key decisions for a well-designed project must be taken prior to the execution phase, as well as to obtain the best performance from the luminaires. Our staff will be able to advise you during this phase and will assist you in selecting the best lighting system and luminaires for your project, as well as helping you to place these luminaires for the best possible illumination.

CUSTOMISED PROJECTS

We have a department of mechanical and electronic design, which enables us to give shape to any project. Thanks to our IT department with CAD/CAM software, we are able to deliver customised products and projects by developing prototypes and pre-production models rapidly that are tested in our laboratory.

Our company has the capacity to design, mould and make prototypes and pre-production models before actually manufacturing any type of light fixture or injection-moulded plastic product.

EQUIPMENT AND FACILITIES

Our facilities have the best machines for manufacturing our products, in addition to state-of-the-art laboratory equipment for studying and testing luminaires. We have a GONIOPHOTOMETER for conducting these tests. This enables our lab technicians to obtain photometric data about our products and those of other manufacturers.

This equipment also allows us to conduct 3D simulations of the actual effect of the luminaires to be used in any given project by comparing the results of the different luminaires that could be used for it.

As we have the best equipment and experts in the sector, we are able to deliver a first-class service to our customers.

IDENTIFICATION

Technical symbols:

- CE marking
- Class I
- Class II
- Class III
- IP protection rating: Seawater-proof
Almost 20% of the power generated in the world is used for lighting. According to studies conducted by the International Energy Agency (IEA), efficient lighting would result in a 10% saving on the world’s electricity consumption. It can therefore be said that replacing a conventional light bulb is an environmentally friendly gesture that contributes to the global challenge of saving energy with the ultimate aim of stopping or, at least, delaying climate change.

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**SERVICE LIFE OF Lumiplus LEDs**

L70 = 50,000h maintains 70% of the initial luminous flux 50,000 hours into its service life.

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**LEDs**

<table>
<thead>
<tr>
<th>Lighting Type</th>
<th>Code</th>
<th>Initial Lumen</th>
<th>Life Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold White</td>
<td>W0</td>
<td>1100</td>
<td>50,000h</td>
</tr>
<tr>
<td>Warm White</td>
<td>W1</td>
<td>1200</td>
<td>50,000h</td>
</tr>
</tbody>
</table>

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**Lumiplus PARS 5 1.1 LAMP**

Lumiplus PARS 5 has been developed to obtain maximum power efficiency. Manufactured for self-irradiation in water and even under corrosive conditions.

LEDs in the lighting are ideal for replacing PAR56, BDG, or halogen lamps as they have a wide range of power consumption and a service life of up to 50,000 hours. They are available in different light colors at 50,000 hours of operation, and they must be connected to the OME management system.
LumiPlus DESIGN PROJECTOR

The innovation and excellence of LumiPlus Design won a Reddot Award 2014, which recognises superior quality in a total of nine aspects that include innovation, functionality, ergonomics, ecology and durability. Available in two finishes, Pure White and Inox Effect, thanks to the use of an innovative technology called in-mould decoration (IMD). Its design blends in perfectly with any pool environment.

Moreover, LumiPlus Design floodlights are set at an angle of 14° to better light up a pool floor and reduce outdoor light pollution. LumiPlus Design projectors have improved luminous efficacy by around 40% in comparison with the main competitors in the market.

To illuminate a pool properly, it is recommended that a lamp from the LumiPlus 2.0 family be installed for every 25 m² of water surface.

**Note:** Strongly recommended for pools in light colours. In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

Manufactured using IMD technology. Must always be installed submerged in water. Projectors without niche; for full projector assembly, select a niche suited for the pool in question. See p. 27.

**Features**

- **Consumption**
  - White: 4 W (50 VA)
  - RGB: 6 W (70 VA)
  - RGB-DMX: 6 W (70 VA)

- **Voltage**
  - 12 V AC

- **Service life**
  - L70 - 50,000 h

- **Colours**
  - 7/12**

- **Energy saving**
  - 90%

- **Connector cable**
  - 23 m. H07RN-F 2x1,5 mm²

A range of LED lighting resulting from the advances made in the LumiPlus range. LumiPlus 2.0 lamps have light intensities three times greater and better energy efficiency than their predecessors.

Their enhanced luminous flux and optical efficiency will bring out the best of any facility.

If DMX lamps are installed, they must be connected to the DMX modulator (code 41107).

LumiPlus PAR 56 2.0 LAMP

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Code</th>
<th>Luminous flux</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>43411</td>
<td>2.544 lm</td>
</tr>
<tr>
<td>Cool white</td>
<td>43412</td>
<td>4.320 lm</td>
</tr>
<tr>
<td>RGB-DMX</td>
<td>45637</td>
<td>2.544 lm</td>
</tr>
</tbody>
</table>

**Features**

- **Consumption**
  - White: 49 W (59 VA)
  - RGB: 68 W (84 VA)
  - RGB DMX: 68 W (84 VA)

- **Voltage**
  - 12 V AC

- **Service life**
  - L70 - 50,000 h

(* In comparison with an incandescent PAR56 lamp  (** Depends on whether the control system is ECO plus/Modulator 27818

LumiPlus control systems

<table>
<thead>
<tr>
<th>LumiPlus RGB TOP</th>
<th>41068</th>
<th>LumiPlus remote control 27818</th>
<th>LumiPlus modulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>LumiPlus RGB DMX</td>
<td>41339</td>
<td>Software/Astral DMX controller</td>
<td>41317 DMX module</td>
</tr>
<tr>
<td>LumiPlus ModBus</td>
<td>57435</td>
<td>LumiPlus ModBus</td>
<td>57435 Modulator + LumiPlus ModBus</td>
</tr>
<tr>
<td>LumiPlus LED app</td>
<td>59131</td>
<td>LumiPlus Wi-Fi access point</td>
<td>59132 Modulator + LumiPlus Wi-Fi access point</td>
</tr>
</tbody>
</table>

* Light colours supplied to order

(1) In comparison with an incandescent PAR56 lamp
(2) Depends on whether the control system is ECO plus/Modulator 27818

www.astralpool.com
**Led lighting for residential pools**

**LumiPlus PAR56 2.0 PROJECTOR**

PAR56 2.0 projectors light up pools to the same degree of luminosity as LumiPlus PAR56 2.0 projectors. They also are more energy efficient and emit less light pollution due to their optics, which optimise the amount of light projected and reduce light loss.

The projectors in the LumiPlus range can be fastened using standard mountings, which optimise the amount of light projected and reduce light loss.

**Features**

- **Consumption**
  - White: 48 W (60 VA)
  - RGB: 48 W (64 VA)
  - RGB DMX: 48 W (64 VA)

- **Voltage**
  - 12 V AC

- **Service life**
  - 100.000h

- **Colours**
  - White
  - RGB

- **Energy saving**
  - 80%

- **Connector cable**
  - 3.5m, H07RN-F 2x1.5 mm²

(*) In comparison with an incandescent PAR56 lamp

(**) Depends on whether the control system is ECO plus/Modulator 27818

---

**LumiPlus S-LIM 2.0 PROJECTOR**

The S-Lim projector has small LEDs and a flat front that gives a better light distribution in any kind of pool (concrete, liner, panel, etc.).

If DMX lamps are installed, they must be connected to the DMX modulator (code 41107).

Available with a faceplate in ABS plastic or stainless steel.

It is an ideal luminaire for pools that are up and running, as it is extremely easy to install. As it does not have a niche, no building work is required to install it. It is mounted on a bracket that is screwed to the wall and holds the projector in place.

**Features**

- **Type of pool**
  - Concrete
  - Prefabricated

- **Light colour**
  - White
  - RGB

- **Faceplate**
  - ABS
  - Stainless steel

- **Luminous flux**
  - 2.544 lm

- **Energy saving**
  - 62%

- **Connector cable**
  - 3.5m, H07RN-F 2x1.5 mm²

(*) In comparison with an extra-slim incandescent projector

(**) Depends on whether the control system is ECO plus/Modulator 27818
**Led lighting for residential pools**

### LumiPlus PAR56 1.11 LAMP

PAR56 lamps have been developed to obtain maximum power efficiency. Manufactured for use in pools, in which a good and even distribution of light is required.

LED white light lamps are ideal for replacing PAR56 300 W halogen lamps as they save over 90% in power consumption and have a service life of up to 100 times longer than a PAR56 halogen lamp.

If RGB DMX lamps are installed, they must be connected to the DMX modulator (code 41107).

### Features

- **Light colour**
  - RGB
  - Cool white
  - RGB DMX

- **Luminous flux**
  - 1,100 lm

- **Consumption**
  - White: 16 W (24 VA)
  - RGB: 27 W (37 VA)
  - RGB DMX: 27 W (37 VA)

- **Voltage**
  - 12 V AC

- **Service life**
  - L70 - 50.000h

- **Colours**
  - 12**

- **Energy saving**
  - 95% (*In comparison with an incandescent PAR56 lamp.**)

### LumiPlus control systems

- LumiPlus RGB TOP 41788: LumiPlus remote control
- LumiPlus RGB DMX 41329: Software/Software DMX controller
- LumiPlus RGB ECO 22438: LumiPlus RGB N/C switch

### PAR56 1.11 RGB WIRELESS LAMP

New range of wireless lamps controlled using the LumiPlus Control Motion device. The LumiPlus Motion Control device directly sends signals to the LumiPlus 1.11 RGB wireless lamps without the need for an external modulator.

The LumiPlus Motion Control device has a motion sensor that enables colours and sequences to be changed through movement. The changes in colour, sequences and their speed, as well as turning the lamps on and off can be done using the remote control.

### Features

- **Luminous flux**
  - 1,100 lm

- **Consumption**
  - RGB: 27 W (37 VA)

- **Voltage**
  - 12 V AC

- **Service life**
  - L70 - 50.000h

- **Colours**
  - 7/12**

- **Energy saving**
  - 91% (*In comparison with an incandescent PAR56 lamp.**)

### LumiPlus control systems

- LumiPlus Wireless 59125: LumiPlus Control Motion
- 44625: LumiPlus Wireless Controller

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[www.astralpool.com](http://www.astralpool.com)
**LumiPlus PAR56 1.11 PROJECTOR**

To illuminate a pool properly, it is recommended to install a LumiPlus PAR56 1.11 every 20m² of water surface. Note: In pools with dark colours it is recommended to use more projectors per m².

The projectors in the LumiPlus range can be fastened using standard or universal mounts. Niches must be purchased separately.

If DMX lamps are installed, they must be connected to the DMX modulator (code 41107).

This projector can be installed in newly built pools and any type of existing pool (concrete, panel, liner, etc.).

### Features

- **Lighting**: LumiPlus PAR56 1.11 PROJECTOR
- **Mounting**: Universal Mounting System
- **Energy efficiency**: 95%
- **Connector cable**: 2.5m H07RN-F 2x1.5 mm²

### Luminous Flux

- **White**: 16 W (24 VA)
- **RGB**: 27 W (37 VA)
- **RGB DMX**: 27 W (37 VA)

### Voltage

- **12 V AC**

### Service Life

- **L70 - 50.000h**

### Colours

- **7/12**  

**Energy saving**: 91% (in comparison with an incandescent PAR56 lamp)

**Connector cable**: 2.5m H07RN-F 2x1.5 mm²

(*) In comparison with an incandescent PAR56 lamp

**(**) Depends on whether the control system is ECO plus/Modulator 27818

**Must always be submerged in water. Projector without niche, for full projector assembly, select a niche suited for the pool in question. See p. 27.**

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**LumiPlus control systems**

- **LumiPlus RGB TOP**
  - 41988 LumiPlus remote control
  - 27818 LumiPlus modulator

- **LumiPlus RGB ECO**
  - 32458 LumiPlus RGB/RC switch

- **LumiPlus RGB DMX**
  - 41329 Software/Astral DMX controller
  - 41330 Software/Astral DMX Pro controller
  - 12167 DMX modulator
  - 51207 DMX touch screen

- **LumiPlus ModBus**
  - 37424 LumiPlus ModBus

- **LumiPlus LED app**
  - 59127 LumiPlus Wi-Fi access point
  - 59132 Modulator + LumiPlus Wi-Fi access point

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**RGB + IP68**

- **Light**: RGB
- **Energy efficiency**: 91%
Led lighting for residential pools

LumiPlus S-LIM 1.11 PROJECTOR

The S-Lim projector has small LEDs and a flat front that gives a better light distribution in a pool. The RGB lamps in this new range reduce power consumption by 40% in comparison with the previous range.

If DMX lamps are installed, they must be connected to the DMX modulator (code 41107).

Available with faceplates in ABS plastic or stainless steel.

#### Type of pool

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Faceplate</th>
<th>Luminous flux</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>ABS</td>
<td>1.100 lm</td>
</tr>
<tr>
<td>Cool white</td>
<td>Stainless steel</td>
<td>1.100 lm</td>
</tr>
<tr>
<td>RGB-DMX</td>
<td>ABS</td>
<td>1.100 lm</td>
</tr>
<tr>
<td>Cool white</td>
<td>Stainless steel</td>
<td>1.100 lm</td>
</tr>
<tr>
<td>RGB-DMX</td>
<td>ABS</td>
<td>1.100 lm</td>
</tr>
<tr>
<td>Cool white</td>
<td>Stainless steel</td>
<td>1.100 lm</td>
</tr>
</tbody>
</table>

**Features**

- **Consumption**
  - White: 16 W (24 VA)
  - RGB: 27 W (37 VA)
  - RGB DMX: 27 W (37 VA)

- **Voltage**: 12 V AC

- **Service life**: L70 - 50.000h

- **Colours**: 7/12**

- **Energy saving***: 84%

- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²

(* In comparison with an extra-slim incandescent projector
(**) Depends on whether the control system is ECO plus/Modulator 27818

**LumiPlus control systems**

- LumiPlus RGB TOP
- LumiPlus RGB DMX
- LumiPlus RGB ECO

**Notes**

- LumiPlus S-LIM RGB 1.11 WIRELESS PROJECTOR

New range of wireless lamps controlled using the LumiPlus Control Motion device. The LumiPlus Motion Control device directly sends signals to the LumiPlus 1.11 RGB wireless lamps without the need for an external modulator.

The LumiPlus Motion Control device has a motion sensor that enables colours and sequences to be changed through movement.

The changes in colour, sequences and their speed, as well as turning the lamps on and off can be done using the remote control.

**Type of pool**

<table>
<thead>
<tr>
<th>Articles</th>
<th>Kit</th>
<th>Luminous flux</th>
<th>Faceplate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 projector + 1 Control</td>
<td>1.100 lm</td>
<td>ABS</td>
<td></td>
</tr>
<tr>
<td>Prefabricated 1 projector</td>
<td>1.100 lm</td>
<td>ABS</td>
<td></td>
</tr>
</tbody>
</table>

**Features**

- **Consumption**: RGB 27 W (37 VA)

- **Voltage**: 12 V AC

- **Service life**: L70 - 50.000h

- **Colours**: 12*

- **Energy saving***: 73%

- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²

(* In comparison with an extra-slim incandescent projector
(**) Depends on whether the control system is ECO plus/Modulator 27818

**LumiPlus control systems**

- LumiPlus RGB TOP
- LumiPlus RGB DMX
- LumiPlus RGB ECO

- LumiPlus RGB TOP
- LumiPlus RGB DMX
- LumiPlus RGB ECO

**Notes**

- (*) Light colours supplied to order

(*) Light colours supplied to order
Led lighting for residential pools

LumiPlus 1.11 RAPID PROJECTOR

To illuminate a pool properly, it is recommended that a spotlight from the LumiPlus Rapid family be installed for every 20 m² of water surface.

Note: Strongly recommended for pools in light colours. In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

Easy to install and connect using fast-on terminals. Reliable thanks to the internal seals that prevent any power failures due to a wrongly wired cable and the handling of the internal components.

Must always be submerged in water. The RGB model is compatible with all LumiPlus control devices. White ABS finish. Easy to install in most connection nozzles with an inner G 1” 1/2 thread, wall conduits, Ø63 PN-6/10 pipes and niches (53956, 60229).

Features

- Consumption
  - RGB: 16 W (24 VA)
  - RGB Wireless: 27 W (37 VA)
- Voltage: 12 V AC
- Service life: L70 - 50,000h
- Colours: 7/12*
- Energy saving*: 95%
- Connector cable: 2,5m. H07RN-F 2x1 mm²

(*) In comparison with an incandescent PAR56 lamp

Light colour Code Luminous flux
White 64129 1,500 lm
Cool white 63237 1,485 lm

Adapters for Mini/Rapid Ø 62395 / 64340 / 64339
- 2 Ø 63PN-6 pipe
- 3 Ø 63PN-6,6 pipe
- 3,5 Wall conduit (00324, 15660, 15661)

LumiPlus control systems

- LumiPlus RGB TOP
  41988 LumiPlus remote control
  27818 LumiPlus modulator
- LumiPlus RGB ECO
  32458 LumiPlus RGB/EC Switch
- LumiPlus RGB DMX
  41329 Software/Astral DMX controller
  41328 Software/Astral DMX/WW controller
  41107 DMX modulator
  51290 DMX touch screen
- LumiPlus Modbus
  57424 LumiPlus Modbus
  57435 Modulator + LumiPlus Modbus
- LumiPlus LED app
  59130 LumiPlus LED app
  59132 Modulator + LumiPlus LED app

LumiPlus control systems

LumiPlus Wireless

39125 LumiPlus Control Motion
64623 LumiPlus Range Extender

LumiPlus RAPID 1.11 RGB WIRELESS PROJECTOR

To illuminate a pool properly, it is recommended that a spotlight from the LumiPlus Rapid family be installed for every 20 m² of water surface.

Note: Strongly recommended for pools in light colours. In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

LED lighting for concrete pools with polyester lining and panel pools with liner. Suitable for installation in many types of pool.

Easy to install and connect using fast-on terminals. Reliable thanks to the internal seals that prevent any power failures due to a wrongly wired cable and the handling of the internal components.

Must always be submerged in water. Easy to install in most connection nozzles with an inner G 1” 1/2 thread, wall conduits, Ø63 PN-6/10 pipes and niches (53956, 60229).

Features

- Consumption
  - RGB: 27 W (37 VA)
- Voltage: 12 V AC
- Service life: L70 - 50,000h
- Colours: 12*
- Energy saving*: 91%
- Connector cable: 2,5m. H07RN-F 2x1 mm²

(*) In comparison with an incandescent PAR56 lamp
Led lighting for residential pools

LumiPlus MINI 3.13 PROJECTOR

To illuminate a pool properly, it is recommended that a spotlight from the LumiPlus 3.13 family be installed for every 5 m² of water surface.

Note: Strongly recommended for pools in light colours. In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

New family of mini LED projectors with greater light intensity, of higher quality and better energy efficiency.

Their design now makes for a more seamless fit in pools and they are easier to install than the current range. Suitable for installation in wall conduits, connector nozzles, niches and spas.

The LumiPlus Mini 3.13 projectors are available in a Pure White or Inox Effect finish and are manufactured using IMD technology.

May be installed both in and out of the water. The RGB projector can be installed with a modulator (code 27818) and control a power load of up to 900 VA.

In installations with a DMX controller, a power pack (code 52142) must also be installed with a modulator (code 27818) and control a power load of up to 900 VA.

In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

(*) In comparison with a Mini incandescent projector

(**) Depends on whether the control system is ECO plus/Modulator 27818

Light sources supplied to order.
**LumiPlus MINI 2.11 PROJECTOR WITHOUT NICHE**

To illuminate a pool properly, it is recommended that a spotlight from the LumiPlus 2.11 family be installed for every 5 m² of water surface.

**Note:** Strongly recommended for pools in light colours.

In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

---

**Features**

- **Consumption**
  - White: 4 W (6 VA)
  - RGB: 4 W (7 VA)
  - RGB DMX: 4 W (7 VA)
  - Rapid coupling: RGB
  - Service life: L70 - 50,000h
  - Energy saving: 92%

- **Connector cable**
  - 2,5m. H07RN-F 2x1,5 mm²

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**LumiPlus MICRO 2.11 PROJECTOR**

To illuminate a pool properly, it is recommended that a spotlight from the LumiPlus MICRO family be installed for every 5 m² of water surface.

**Note:** Strongly recommended for pools in light colours.

In pools with a dark or stainless steel finish, it is recommended to use more projectors per m².

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**Features**

- **Consumption**
  - White: 6 W (9 VA)
  - RGB: 4 W (7 VA)
  - RGB DMX: 4 W (4 VA)

- **Rapid coupling**
  - RGB: 64552, 64553
  - Service life: L70 - 50,000h
  - Energy saving: 92%

- **Connector cable**
  - 2,5m. H07RN-F 2x1,5 mm²

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**LumiPlus control systems**

- LumiPlus RGB TOP
  - 41988: LumiPlus remote control
  - 27918: LumiPlus modulator

- LumiPlus RGB ECO
  - 32458: LumiPlus RGB/E C switch

- LumiPlus RGB DMX
  - 41329: Software/Astral DMX controller
  - 41329: Software/Astral DMX Pro controller
  - 52142: Power pack for Mini and Quadriled projectors
  - 51287: DMX touch screen

- LumiPlus ModBus
  - 57433: LumiPlus ModBus
  - 57460: Modulator + LumiPlus ModBus

- LumiPlus LED app
  - 89132: LumiPlus Wi-Fi access point
  - 89132: LumiPlus Wi-Fi access point

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**Light colour**

- RGB
- Red *
- Green *
- Blue *
- NW: Neutral white *
- WW: Warm white *
- W: Cool white

(*) Light colours supplied to order

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**Light / RGB • IP68 •**

**Faceplate**

ABS Stainless steel

**Luminous flux**

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Rapid coupling</th>
<th>Service life</th>
<th>Energy saving</th>
<th>Connector cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>4 W (6 VA)</td>
<td>50,000h</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>RGB DMX</td>
<td>4 W (7 VA)</td>
<td>50,000h</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>Cool white</td>
<td>35275</td>
<td>35276</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>RGB</td>
<td>64552</td>
<td>64553</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>RGB DMX</td>
<td>64557</td>
<td>64558</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>Cool white</td>
<td>64539</td>
<td>64540</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>RGB</td>
<td>40765</td>
<td>40766</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
<tr>
<td>RGB DMX</td>
<td>40768</td>
<td>40769</td>
<td>92%</td>
<td>2,5m. H07RN-F 2x1,5 mm²</td>
</tr>
</tbody>
</table>

(*) In comparison with a Mini incandescent projector

(**) Depends on whether the control system is ECO plus/Modulator 27818

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**More information on www.astralpool.com**
Control systems

LUMIPLUS RGB ECO

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32458</td>
<td>LumiPlus RGB N/C switch</td>
</tr>
</tbody>
</table>

The pushbuttons on this device control the colour changes and sequences of LumiPlus projectors. There is a range of 7 colours and 7 colour sequences. Maximum power input of 700 VA. It should be connected to the transformer's primary winding with an output of 230 VAC.

LUMIPLUS CONTROL MOTION

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59125</td>
<td>LumiPlus Control Motion</td>
</tr>
</tbody>
</table>

This device is only compatible with LumiPlus wireless projectors. It is able to turn the wireless projectors on and off, change their colours and sequences, and select the speed of the sequences. In addition, it is sensitive to movement so that if the LumiPlus Motion Control is moved vertically the colour can be changed and if moved horizontally the sequence can be changed.

LUMIPLUS RGB TOP

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>27818</td>
<td>Modulator with antenna for LumiPlus RGB projectors</td>
</tr>
<tr>
<td>41988</td>
<td>LumiPlus remote control</td>
</tr>
</tbody>
</table>

This is able to turn the projectors on and off, change their colours and the speed of the sequences. It has a range of 12 colours and 8 sequences of colour changes. The LumiPlus modulator has an antenna with a range of 50 metres able to receive signals from the LumiPlus remote control (must be purchased separately). If the LumiPlus modulator is operated using the LumiPlus RGB remote control, it is also possible to set a timer for turning the projectors off.

Led lighting

LUMIPLUS MODBUS

<table>
<thead>
<tr>
<th>Modulator</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modbus</td>
<td>57434</td>
</tr>
<tr>
<td>Modulator</td>
<td>57435</td>
</tr>
</tbody>
</table>

The Modbus protocol enables the control of the LumiPlus modulator. It can be used to switch the projectors on and off, change their colours and the speed of sequences, as well as to set the time for putting the projectors in sleep mode. It has a range of 12 colours and 8 sequences of colour changes. The LumiPlus Modbus should only be installed as an additional feature to the LumiPlus modulator.

LUMIPLUS WIRELESS RANGE EXTENDER

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>64633</td>
<td>LumiPlus Wireless Range Extender</td>
</tr>
</tbody>
</table>

The LumiPlus Wireless Range Extender is a product that has been specially designed to increase the range of the signal from the LumiPlus Wireless system in pools where there is a poor wireless signal due to architectural features or the surroundings, which make it difficult for the signals from the LumiPlus Motion Control to reach the LumiPlus wireless projectors.

LUMIPLUS LED APP

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59131</td>
<td>LumiPlus Wi-Fi access point</td>
</tr>
<tr>
<td>59132</td>
<td>Modulator + LumiPlus Wi-Fi access point</td>
</tr>
</tbody>
</table>

This app enables the LumiPlus modulator to be operated from a smartphone or tablet. It can be used to switch the projectors on and off, change their colours and the speed of sequences, as well as to set the time for putting the projectors in sleep mode. It has a range of 12 colours and 8 sequences of colour changes. The LumiPlus app should only be installed as an additional feature to the LumiPlus modulator.
Control systems

RGB DMX CONTROL SYSTEMS

The DMX (digital multiplexed) control system is the communications protocol used for controlling our lighting systems. It is able to create light displays for fountains and large water features, whereby spotlights can be lit up individually or in groups.

As a control system for illuminating fountains, it can be operated from a PC or a standalone programmable module. Comprising the Astral DMX (USB-DMX interface) and intuitive software, it enables users to control all of the settings of a projector or a group of projectors. Any colour from a selection of over 16 million colours may be chosen.

The system is an ideal solution for creating displays that almost last forever with spectacular results. There are two systems: the Astral DMX that controls illumination and the Astral DMX Pro, which in addition to controlling lighting is also able to synchronise music, video images and water effects.

LUMIPLUS RGB DMX

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>41330</td>
<td>Astral DMX PRO Controller (new version)</td>
</tr>
<tr>
<td>41329</td>
<td>Astral DMX Controller (new version)</td>
</tr>
<tr>
<td>52142</td>
<td>Mini power pack and Quadralled RGB-DMX</td>
</tr>
<tr>
<td>41107</td>
<td>DMX Modulator (for all LumiPlus range and strip projector)</td>
</tr>
<tr>
<td>51387</td>
<td>DMX touch screen</td>
</tr>
</tbody>
</table>

Niches for projectors

LUMIPLUS DESIGN

<table>
<thead>
<tr>
<th>Concrete pool</th>
<th>Prefabricated pool</th>
<th>Kit Mounting other niches</th>
</tr>
</thead>
<tbody>
<tr>
<td>With inserts</td>
<td>With inserts</td>
<td>59813</td>
</tr>
<tr>
<td>Without inserts</td>
<td>Without inserts</td>
<td>59814</td>
</tr>
<tr>
<td></td>
<td></td>
<td>59815</td>
</tr>
<tr>
<td></td>
<td></td>
<td>59818*</td>
</tr>
</tbody>
</table>

*Compatible with most niches in the market of ø180 to 190 mm (Hugo Lahme, MTS Products, Wibre, etc.); consult your dealer.

LUMIPLUS MINI

<table>
<thead>
<tr>
<th>Concrete pool</th>
<th>Prefabricated pool</th>
<th>Lino pools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot-light</td>
<td>Rapid coupling</td>
<td>60229*</td>
</tr>
<tr>
<td>06167</td>
<td>5916</td>
<td>00369</td>
</tr>
</tbody>
</table>

*Compatible with LumiPlus MINI 3.13

Niches for rapid coupling MINI projectors for concrete pools; suitable for both LED and halogen bulbs. The bulbs are easy to change as a considerable length of cable can be left at the back of the niche. They can be adjusted to the thickness of the gunite. There is a section of tubing on the front of the projectors that can be cut after a pool has been concreted over and the cable can be wound around a spool on the back of the casing. The niche’s stuffing box assembly can be reached from the tubing on the front of the casing.
**Led lighting for public pools**

**PAR 56 1.11 PROJECTOR IN STAINLESS STEEL**

Range of projectors made entirely of AISI-316 stainless steel with LED bulbs. Supplied with a 2.5 m cable and cable duct with a PG16 thread and PG16 to M25 converter.

Lamp assembly fastened to the niche using screws.

For full projector assembly, the niche must be purchased separately.

**Features**

- **Consumption**
  - White: 16 W (24 VAC)
  - RGB: 27 W (37 VAC)

- **Voltage**: 12 V AC

- **Service life**: L70 - 50.000h

- **Colours**: 7/12**

- **Energy saving***: 95%

- **Connector cable**: 2.5m. H07RN-F 2x1,5 mm²

(*) In comparison with an incandescent PAR56 lamp

(**) Depends on whether the control system is ECO plus/Modulator 27818

**Energy saving***: 95%

Connector cable: 2.5m. H07RN-F 2x1.5 mm²

(*) In comparison with an incandescent PAR56 lamp

(**) Depends on whether the control system is ECO plus/Modulator 27818

**LumiPlus control systems**

- LumiPlus RGB TOP
- LumiPlus remote control
- LumiPlus ModBus
- LumiPlus LED app

**NICHES FOR STAINLESS STEEL PROJECTORS**

<table>
<thead>
<tr>
<th>Concrete pool</th>
<th>Liner pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4102</td>
<td>S4103</td>
</tr>
</tbody>
</table>

www.astralpool.com

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**PAR 56 2.0 PROJECTOR IN STAINLESS STEEL**

Range of projectors made entirely of AISI-316 stainless steel with LED bulbs. Supplied with a 2.5 m cable and cable duct with a PG16 thread and PG16 to M25 converter.

Lamp assembly fastened to the niche using screws.

For full projector assembly, the niche must be purchased separately.

**Features**

- **Consumption**
  - White: 58 W (60 VAC)
  - RGB: 48 W (64 VAC)

- **Voltage**: 12 V AC

- **Service life**: L70 - 50.000h

- **Colours**: 7/12**

- **Energy saving***: 84%

- **Connector cable**: 2.5m. H07RN-F 2x1,5 mm²

(*) In comparison with an incandescent PAR56 lamp

(**) Depends on whether the control system is ECO plus/Modulator 27818

**LumiPlus control systems**

- LumiPlus RGB TOP
- LumiPlus remote control
- LumiPlus Modulator
- LumiPlus RGB ECO
- LumiPlus RGB DMX
- LumiPlus ModBus
- LumiPlus LED app

**NICHES FOR STAINLESS STEEL PROJECTORS**

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<td>S4103</td>
</tr>
</tbody>
</table>

www.astralpool.com
**Decorative lighting**

**QUADRALED 2.11 PROJECTOR**

Projectors designed to be used in fountains, cascades and water features, as well as for illuminating other outdoor features such as monuments, trees, gardens, paths and murals.

Available with 1, 2, 3 and 4 spotlights. Made of aluminium and coated in rustproof paint. Projectors per m².

May be installed both in and out of the water. The RGB projector can be installed with a modulator (code 27818) and control a power load of up to 900 VA. In installations with a DMX controller, a QUADRALED RGB-DMX DMX power pack (code 52142) must also be installed (up to 9 projectors). Screws and wall plugs supplied.

Manufactured in white / RGB-DMX-IP68.

**Features**

- **Energy saving**: 92% (in comparison with a Mini incandescent projector)
- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²
- **Service life**: L70 – 50.000h
- **Colours**
  - 7/12**
- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²
- **Light colours supplied to order**

**Connector cable**: 2,5m. H07RN-F 2x1,5 mm²

White / RGB • IP68 •

**STRIP PROJECTORS**

The IP68 rated strip projectors are ideal for lighting up architectural and water features.

They have high intensity LEDs and elliptical lenses that make them extremely powerful sources of bright light. The projectors have been specially designed to completely bathe the feature to be illuminated in light as they bring out the full potential of the LEDs and the lenses used.

**Features**

- **Energy saving**: 92% (in comparison with a Mini incandescent projector)
- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²
- **Light colours supplied to order**

Manufactured in white / RGB-DMX-IP68.

**Measure**

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>5/6</td>
</tr>
<tr>
<td>RGB</td>
<td>4/5</td>
</tr>
<tr>
<td>RGB DMX</td>
<td>4/5</td>
</tr>
</tbody>
</table>

**LumiPlus control systems**

- **LumiPlus RGB TOP**
  - 41988 LumiPlus remote control
  - 27818 LumiPlus Modulator
- **LumiPlus RGB ECO**
  - 24408 LumiPlus RGB/E CO switch
  - 24409 LumiPlus RGB/E CO switch

May be installed both in and out of the water. This product is not intended for pools, but rather for fountains, cascades and water features. Screws and wall plugs supplied if DMX projectors are installed, they must be connected to the DMX modulator (code 41107). Screws and wall plugs supplied.

Manufactured in white / RGB-DMX-IP68.

**Features**

- **Energy saving**: 92% (in comparison with a Mini incandescent projector)
- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²
- **Light colours supplied to order**

Manufactured in white / RGB-DMX-IP68.

**Measure**

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May be installed both in and out of the water. The RGB projector can be installed with a modulator (code 27818) and control a power load of up to 900 VA. In installations with a DMX controller, a QUADRALED RGB-DMX DMX power pack (code 52142) must also be installed (up to 9 projectors). Screws and wall plugs supplied.

Manufactured in white / RGB-DMX-IP68.

**Features**

- **Energy saving**: 92% (in comparison with a Mini incandescent projector)
- **Connector cable**: 2,5m. H07RN-F 2x1,5 mm²
- **Light colours supplied to order**

Manufactured in white / RGB-DMX-IP68.
### Decorative lighting

#### BRICK LIGHT SERIES PROJECTORS

The Walk series is made up of a wide range of LED luminaires that are ideal for signposting and lighting up footpaths, parks and built-up areas.

**Series made up of:** Square 110 x 110 mm luminaires and round ones 105 mm in diameter.

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Luminous flux</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>50 lm</td>
</tr>
<tr>
<td>White</td>
<td>100 lm</td>
</tr>
</tbody>
</table>

The projector has a zinc-plated steel niche to make installation easier.

#### Light colour

- **RGB:** Red, Green, Blue
- **White:** Neutral white, Warm white

#### Features

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>95%</td>
</tr>
<tr>
<td>White</td>
<td>95%</td>
</tr>
</tbody>
</table>

#### Luminous flux

- **RGB:** 50 lm
- **Cool white:** 100 lm

#### LumiPlus control systems

- LumiPlus RGB TOP 41088 LumiPlus remote control 27818 LumiPlus Modulator
- LumiPlus RGB ECO 32459 LumiPlus RGB/ECO switch
- LumiPlus DMX 51297 DMX touch screen

#### LumiPlus LED app

- 59135 LumiPlus LED app
- 59132 LumiPlus LED app with access point

#### Led lighting

#### STANDARD LumiPlus 1.11 PROJECTOR FOR FOUNTAINS

This adjustable projector has been specially designed for installation in fountains and decorative water features.

Thanks to its three revolving axes, it can be turned in any direction.

It is supplied with screws and wall plugs.

A spotlight from the LumiPlus 1.11 family should be installed for every 20 m².

#### Light colour

- **RGB:** Red, Green, Blue
- **White:** Neutral white, Warm white

#### Light

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>95%</td>
</tr>
<tr>
<td>White</td>
<td>95%</td>
</tr>
</tbody>
</table>

#### Features

<table>
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<tr>
<th>Light colour</th>
<th>Energy efficiency</th>
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<tbody>
<tr>
<td>RGB</td>
<td>95%</td>
</tr>
<tr>
<td>Cool white</td>
<td>95%</td>
</tr>
</tbody>
</table>

#### Luminous flux

- **RGB:** 1.100 lm
- **Cool white:** 1.465 lm

#### LumiPlus control systems

- LumiPlus RGB TOP 41088 LumiPlus remote control 27818 LumiPlus Modulator
- LumiPlus RGB ECO 32459 LumiPlus RGB/ECO switch
- LumiPlus LED app 59135 LumiPlus LED app

#### LumiPlus LED app

- 59135 LumiPlus LED app
- 59132 LumiPlus LED app with access point

#### Decorative lighting

#### LumiPlus control systems

- LumiPlus RGB TOP 41088 LumiPlus remote control 27818 LumiPlus Modulator
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Thanks to its three revolving axes, it can be turned in any direction.

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#### Light colour

- **RGB:** Red, Green, Blue
- **White:** Neutral white, Warm white

#### Light

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<td>RGB</td>
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<tr>
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#### Features

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<td>Cool white</td>
<td>95%</td>
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</table>

#### Luminous flux

- **RGB:** 1.100 lm
- **Cool white:** 1.465 lm

#### LumiPlus control systems

- LumiPlus RGB TOP 41088 LumiPlus remote control 27818 LumiPlus Modulator
- LumiPlus RGB ECO 32459 LumiPlus RGB/ECO switch

#### LumiPlus LED app

- 59135 LumiPlus LED app
- 59132 LumiPlus LED app with access point

#### Led lighting
Decorative lighting

STANDARD LumiPlus 2.0 PROJECTOR FOR FOUNTAINS

The adjustable projector has been specially designed for installation in fountains and decorative water features.

Thanks to its three revolving axes, it can be turned in any direction.

It is supplied with screws and wall plugs.

A spotlight from the LumiPlus 2.0 family should be installed for every 25 m².

Light / RGB • IPX8 • CE 1

<table>
<thead>
<tr>
<th>Light colour</th>
<th>Code</th>
<th>Luminous flux</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
<td>45635</td>
<td>2.544 lm</td>
</tr>
<tr>
<td>Cool white</td>
<td>45636</td>
<td>4.120 lm</td>
</tr>
<tr>
<td>RGB DMX</td>
<td>45648</td>
<td>2.544 lm</td>
</tr>
</tbody>
</table>

Must always be submerged in water.

<table>
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<tr>
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<tbody>
<tr>
<td>RGB</td>
<td>Red</td>
<td>45635</td>
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</tr>
<tr>
<td>RGB</td>
<td>Green</td>
<td>45636</td>
<td>4.120 lm</td>
</tr>
<tr>
<td>RGB</td>
<td>Blue</td>
<td>45648</td>
<td>2.544 lm</td>
</tr>
<tr>
<td>NW</td>
<td>Neutral white</td>
<td>45637</td>
<td>2.544 lm</td>
</tr>
<tr>
<td>WW</td>
<td>Warm white</td>
<td>45638</td>
<td>4.120 lm</td>
</tr>
<tr>
<td>W</td>
<td>Cool white</td>
<td>45639</td>
<td>2.544 lm</td>
</tr>
</tbody>
</table>

(*) Light colours supplied to order

LED lighting Led lighting

PHOTOMETRIC MEASUREMENT GUIDE

LumiPlus Design

<table>
<thead>
<tr>
<th>Light</th>
<th>Code</th>
<th>Beam of Light</th>
<th>Beam of Light</th>
<th>Beam of Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>45635</td>
<td>2.544 lm</td>
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<td>45648</td>
<td>2.544 lm</td>
<td>45635</td>
<td>2.544 lm</td>
</tr>
</tbody>
</table>

Energy saving* 84%

Connector cable 2.5m H07RN-F 2x1.5 mm²

(*) In comparison with an incandescent PAR56 lamp.
(**) Depends on whether the control system is ECO plus/Modulator 27818

LumiPlus Micro 2.11

<table>
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<tr>
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<th>Code</th>
<th>Beam of Light</th>
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LumiPlus control systems:

<table>
<thead>
<tr>
<th>LumiPlus RGB TOP</th>
<th>41068</th>
<th>LumiPlus remote control 27800</th>
<th>LumiPlus Modbus 27818</th>
</tr>
</thead>
<tbody>
<tr>
<td>LumiPlus RGB ECO</td>
<td>32455</td>
<td>LumiPlus RGB/ECO switch</td>
<td>LumiPlus RGB DMX 41320</td>
</tr>
<tr>
<td>LumiPlus ModBus</td>
<td>37418</td>
<td>LumiPlus Modbus</td>
<td>51297 DMX touch screen</td>
</tr>
<tr>
<td>LumiPlus LED app</td>
<td>59131</td>
<td>LumiPlus LED app</td>
<td>59132 Modbus + LumiPlus LED app</td>
</tr>
<tr>
<td>LumiPlus Wifi access point</td>
<td>59132</td>
<td>LumiPlus Wifi access point</td>
<td>59132 Modbus + LumiPlus Wifi access point</td>
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</tbody>
</table>

www.astralpool.com
Photometric measurements

**LumiPlus Mini 2.11**

<table>
<thead>
<tr>
<th></th>
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<th>RGB</th>
<th>RGB-DMX</th>
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</thead>
<tbody>
<tr>
<td>Beam of Light</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
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**LumiPlus Mini 3.13**

<table>
<thead>
<tr>
<th></th>
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<th>RGB-DMX</th>
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<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
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**LumiPlus Rapid**

<table>
<thead>
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<tbody>
<tr>
<td>Beam of Light</td>
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**LumiPlus S-LIM 1.11**

<table>
<thead>
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<th>RGB</th>
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<tr>
<td>Beam of Light</td>
<td><img src="image9" alt="Diagram" /></td>
<td><img src="image10" alt="Diagram" /></td>
<td><img src="image11" alt="Diagram" /></td>
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</tbody>
</table>

**LumiPlus S-LIM 1.11**

<table>
<thead>
<tr>
<th></th>
<th>White</th>
<th>RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam of Light</td>
<td><img src="image12" alt="Diagram" /></td>
<td><img src="image13" alt="Diagram" /></td>
</tr>
</tbody>
</table>

Photometric measurements
### Photometric measurements

#### Led lighting

- **LumiPlus S-LIM 2.0**
  - **White**
    - Beam of Light
  - **RGB**
    - Beam of Light
  - **RGB-DMX**
    - Beam of Light

- **PAR56 2.0**
  - **White**
    - Beam of Light
  - **RGB**
    - Beam of Light
  - **RGB-DMX**
    - Beam of Light

- **PAR56 1.11**
  - **White**
    - Beam of Light
  - **RGB**
    - Beam of Light
  - **RGB-DMX**
    - Beam of Light

- **Strip projectors**
  - **White**
    - Beam of Light
  - **RGB**
    - Beam of Light
  - **RGB-DMX**
    - Beam of Light