UL300
LED Spotlight 12-24V DC
CW: 12.5W | 865lm
RGB: 6W | 219lm
page 188

UL600
LED Spotlight 12-24V DC
CW: 24W | 1.730lm
RGB: 14W | 438lm
page 190

UL650
LED Spotlight 12-24V DC
CW: 36W | 2.595lm
RGB: 20W | 657lm
page 192

UL700
LED Spotlight 12-24V DC
CW: 48W | 3.460lm
RGB: 25W | 876lm
page 194

UL800
LED Spotlight 12-24V DC
CW: 72W | 5.190lm
RGB: 40W | 1.314lm
page 196

UL900
LED Spotlight 12-24V DC
CW: 88W | 6.920lm
RGB: 57W | 1.752lm
page 198

UL1000
LED Spotlight 12-24V DC
CW: 180W | 12.975lm
RGB: 93W | 3.285lm
page 200

ULR650
LED Spotlight 12-24V DC
CW: 36W | 2.595lm
RGB: 20W | 657lm
page 202

ULR700
LED Spotlight 12-24V DC
CW: 48W | 3.460lm
RGB: 25W | 876lm
page 204

XL mini
LED Spotlight 12-24V DC
CW: 3.2W | 240lm
page 212

XL150
LED Spotlight 12-24V DC
RGBW: 8W | 238lm
page 214

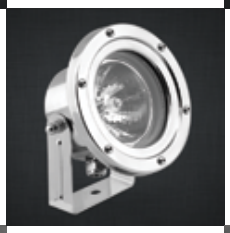
XL300
LED Spotlight 12-24V DC
CW: 12.5 | 865lm
RGB: 6W | 219lm
page 218

XL600
LED Spotlight 12-24V DC
CW: 21W | 1.730lm
RGB: 14W | 438lm
page 222

FL30
Halogen Spotlight
20-35W | 12V AC
page 238

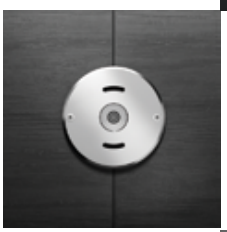
FL50
Halogen Spotlight
20-75W | 12-24V AC
page 239

FL150
Halogen Spotlight
75-100W | 12V AC
page 240

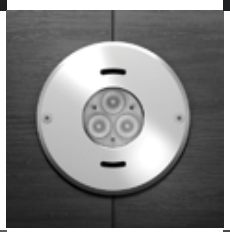


FL380
Halogen Spotlight
120-150W | 24V AC
page 243

FL700
Halogen Spotlight
350-525W | 12V AC
page 245



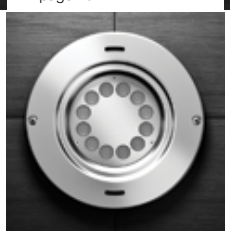
PL mini
Swimming Pool LED light
12-24V DC
CW: 3.2W | 240lm
page 252



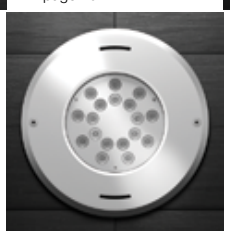
PL300
Swimming Pool LED light
12-24V DC
CW: 12.5W | 865lm
RGB: 6W | 219lm
page 254

PL600
Swimming Pool LED light
12-24V DC
CW: 24W | 1.730lm
RGB: 14W | 438lm
page 256

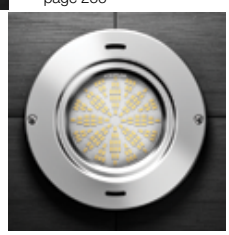
PL700
Swimming Pool LED light
12-24V DC
CW: 48W | 3.460lm
RGB: 25W | 876lm
page 258



PL800
Swimming Pool LED light
12-24V DC
CW: 72W | 5.190lm
RGB: 40W | 1.314lm
page 262



PL LightFlood
Swimming Pool LED light
12-24V DC & 24V AC
W: 58W | 4.537lm
page 264



thesmartled™
SUBMERSIBLE LIGHTS
Pure German stainless steel outside.
Pure American heart inside.

Probably the most **advanced** underwater luminaires ever created.

We proudly present you TheSmartLED™ Submersible Lights range. Stunningly Powerful, Beautiful and truly Intelligent. A series of underwater luminaires designed inside and outside by Fontana Fountains to be used specifically in fountains.

The SmartLEDs are the first and only luminaires with specially designed, developed and precisely manufactured with state-of-the-art components, LED module to fulfill the strictest and highest possible standards of quality, safety and efficiency.

We spent 3 years developing a unique archetype of what we believe was missing in the fountain industry: **A LED luminaire that is superb in terms of quality, unbelievably strong in terms of illumination intensity, absolutely safe in all kinds of wet environments and incorporating tomorrow's technology. Today.**

We teamed up with some of the greatest companies and suppliers in the world like Cree, Inc. - USA and we took full advantage of all aspects of light emitting diodes and bypassed all their boundaries by creating a truly amazing luminaire.

Since day one of initial launch we continually improve these lights in all terms, offering now a wide range of lights boasting features like: 288 Lumens per LED, 16.7 million colors, MicroProcessors inside each light, the amazing led:bus protocol which requires only 3 wires to control RGB, 16-Step thermal protection, dmx connection, the truly handy feature of 10-30V DC operation which eliminates the voltage-drop hassle and all these at an unbelievable 96.7% cut-down in the electricity bill.

288 Lumens per LED
1427 Candelas per Watt
Industry-unique values

The heavy duty, yet beautiful, stainless steel body houses a sophisticated passive cooling system, a decorative stainless steel lenses mask, the LED lenses and the unique SmartLED module.

Each module incorporates microprocessors that constantly monitor the luminaire's status, temperature & communication with the controlling device. In case temperature rises, the microprocessor drops the current in 16 smooth steps, allowing for the luminaire to cool down, preventing overheating without switching it off and thus leaving the fountain always lit. The module is reverse-polarity protected and it also is able to be supplied with any DC voltage between 10-30 Volts, so you don't have to worry about cable thickness, distance, etc.

We actually invented a state-of-the-art data communication protocol named led:bus which essentially is the language all TheSmartLEDs speak and understand. It is a digital protocol transmitted through any kind of simple 3-wire cable at distances exceeding 200 meters from the nearest junction box or control device. Led:bus carries information about ID, color, intensity and status and supports up to 8 different colors produced simultaneously in the same 3-wire group.

Finally, TheSmartLEDs comply to the L70 spec. - simply put, after 50.000 hours of operation, the led initial flux will not degrade by more than 30% max.

Would you believe that by excessively illuminating your fountain would actually save you up to 96.7% on energy costs and minimize your CO_2 footprint?

We tried hard to achieve this.

The difference in operating costs and environmental impact between conventional luminaires and the SmartLEDs is enormous. In a sample, really small-sized fountain you'd save about € 9335 in 5 years just from the electricity bill and also save more than 230 trees at the same time.

We managed to create a whole series of LED luminaires that offer extremely intense illumination while saving up to 96.7% on energy consumption and compared to conventional bulbs, can live up to 50 times more than the previous technology, incorporating the most brilliant self-protection features and all these packed in stylish heavy-duty housings made of pure Stainless Steel.

It's all about sustainability.

	PAR 38 Luminaires	R111 Halogen Luminaires	COMPETITIVE RGB LED LUMINAIRES	Fontana TheSmartLED RGB
Watts	**120 W**	**100 W**	**25 W**	**14 W**
Light Intensity	7651 cd	8500 cd	6871 cd	**7953 cd**
Light Source Lifespan	2500 hours	2000 hours	up to 100000 hours	**up to 100000 hours**
Quantity of luminaires required to illuminate a sample fountain	42	34	14	**12**
Total Wattage of luminaires	5040 W	3400 W	350 W	**168 W**
Energy costs per year per luminaire	€ 45.99	€ 38.33	€ 9.58	**€ 5.37**
Total energy costs per year	**€ 1931.58**	**€ 1303.22**	**€ 134.12**	**€ 64.44**
Energy costs in 5 years	**€ 9657.90**	**€ 6516.10**	**€ 670.60**	**€ 322.20**
CO_2 emissions in 5 years	**47.6 Tons**	**32.1 Tons**	**3.3 Tons**	**1.6 Tons**
No. of Trees to offset in 5 years	238.1 Trees	160.7 Trees	16.5 Trees	**7.9 Trees**

The research has been made using RGB models for LED luminaires. In white color, the respective Fontana luminaire offers 31374 cd. Costs are based on average EU €/KWh.

When was the last time you saw something for the first time?

TheSmartLEDs emit so bright and vivid illumination that give you amazing design options. In this example the tip of the central jet (20 meters high) is perfectly illuminated by the outer spray ring's underwater spotlights in lively yellow color. And this effect is not going to fade.

The LED modules comply to the L70 spec (read more on page 181) and the stainless steel housings are simply unaffected by anything - corrosion, impacts, tarnishing etc.

The photo is not manipulated in any way and depicts the remarkable capabilities of these lights.

It's not the Watts that count.

It's the light intensity you get from every Watt that makes the difference.

Comparing just the Watts between different spotlights is only half the truth. The real difference lies in the amount of light you can get from every Watt. Essentially, the higher the ratio of cd/W, the more efficient the luminaire is.

TheSmartLEDs offer an impressive value of 568 cd/W in RGB, being almost 10 times more efficient than PAR38-equipped spotlights and two times more than competitive LED luminaires. The superiority of Fontana luminaires is crystal clear.

The white-color models of TheSmartLEDs offer a phenomenal value of 1427 cd/W which is simply incomparable to any other underwater luminaire in the industry.

f:bus

led:bus

Two amazing digital communication protocols invented to give life to the most advanced underwater spotlights. And essentially, make your life easier.

f:bus

FCU, RGB controllers, DMX2led:bus converters, analog accessories, wind and water level automations – a whole line of electronic devices specially designed for fountains, connect to each other over simple ethernet cables. Each device recognizes all other devices in the network so you don't have to make any settings or tricky connections.
Essentially, f:bus is the language all Fontana devices understand. A language that you don't have to learn, everything just works by itself.

led:bus

All you have to do is connect the cables – virtually any type of cables – and the whole system works by itself. You don't have to worry about multiple color coded wires, length of wires, voltage drop, over-voltage, polarity, over-heating, internal or external interference; everything just works.

This unique protocol was invented and developed by Fontana Fountains to make LED luminaires as easy as possible.

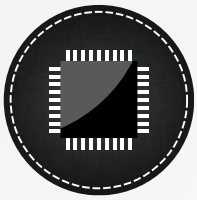
led:bus vs PWM

The only common thing between led:bus and PWM is that they both control led luminaires but they do it in a so much different way. The core difference is that with led:bus everything works by itself digitally through a bulletproof layer, where with PWM you have to worry about a lot of things like interference, length of cables, current and amplifiers.

	led:bus	PWM		led:bus	PWM
Interference Safe	✓	✓	**Distance-dependent Installation**	✗	✓
4 Wires	✗	✓	**Temperature Control**	✓	✗
3 Wires (>25% less cable cost)	✓	✗	**Safety Critical Physical Layer**	✓	✗
Water Flicker Protection	✓	✗	**Microcontroller Based**	✓	✗
Addressable Lights	✓	✗	**Standalone Operation with 2 wires**	✓	✗
Data Integrity Checking	✓	✗	**Less Peripherals Required**	✓	✗

Peace of mind

This is what you actually get when you choose thesmartled™



MicroProcessors inside each luminaire

All luminaires incorporate cutting-edge microprocessors that constantly monitor the luminaire's status & temperature, and at the same time communicate with the controlling device receiving and interpreting data about ID, color and intensity. As complicated as it might seem, the whole network works by itself. You don't have to worry about voltage drop, over-voltage, polarity, over-heating, internal or external interference; everything just works. All you have to do is enjoy the limitless spectrum of 16.7 million colors.

Only 3 Wires required for RGB instead of 4

Since the control of the lights is carried out digitally through the led:bus protocol (instead of modulating voltage or pulse width per channel), all you need is a simple 3-wire cable (no shielding required). Two wires are used for current and the third one is used for sending and receiving led:bus data. Apart from reducing cable & installation costs, this feature allows you to have a phenomenal cable length of up to 200 meters between the controller and the lights.

16-Step Thermal Protection

Each luminaire features a unique 16-Step Thermal Protection system. In case the microprocessor inside the luminaire detects an increase in temperature, it will drop the current in 16 smooth steps, allowing for the luminaire to cool down, preventing overheating without switching it off, thus leaving the fountain always lit.

Reverse Polarity Protection

All models are equipped with Reverse Polarity Protection to ensure that no damage will occur to the luminaire if wires get mis-connected during installation.

Supply any voltage between 12V - 24V DC

We couldn't let voltage be a headache. All lights work under both 12V and 24V DC and anywhere in between. Plus, they provide a 10% margin for voltage drop and over-current.

Addressable Modules for DMX controlling

All models can be optionally ordered with addressable modules to be connected on DMX or any other address-based network. This feature provides greater design flexibility as each luminaire's color can be independently controlled. The accessory DMX2led:bus is required. The remote addresser is a handy device to set the address of each light remotely without having to open it.

- **6W RGB & 12.5W White**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Ideal for water features up to 2 m high**

One of the smallest underwater luminaires, UL300 is designed for small-scale applications with great illumination requirements. With power consumption of only 6W in RGB and 12.5W in White color, it is one of the most low-cost solutions, yet it can illuminate 2-meter high fountains vividly, safely and reliably.

UL300 incorporates 3 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses UL300 offers 3.929 candelas in white & 995 candelas in RGB, and with the optional spot lenses the light intensity goes up to 15.687cd & 3.976cd respectively.

LED DETAILS

Amount of LEDs:	**3 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**12.5W (White) - 6W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**70mm** 2.7”
Height (incl. base):	**119mm** 4.7”
Body Width:	**110mm** 4.3”

HOUSING DETAILS

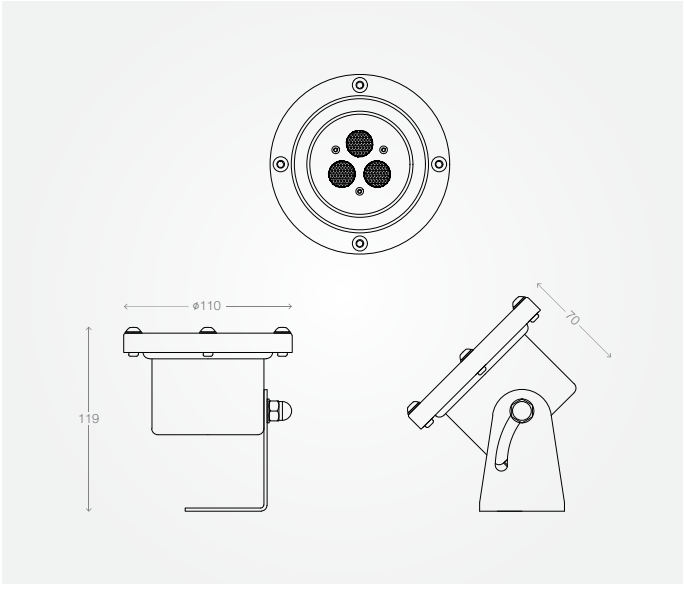
Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	6W	12-24V DC	24°	219 lm	UL300.RGB
White 6000K	12.5W	12-24V DC	24°	865 lm	UL300.CW
White 3000K	12.5W	12-24V DC	24°	622 lm	UL300.WW

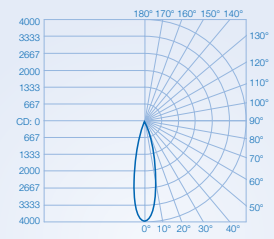
Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Addressable module	**.ADR**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**



UL300.CW

Polar Candela Distribution



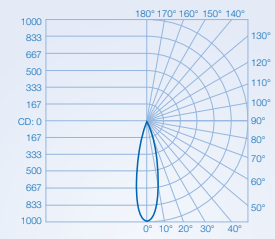
Beam Center: 3929 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
0.5 m	ø 0.2 m	15714.96 LUX
1.0 m	ø 0.4 m	3928.74 LUX
1.5 m	ø 0.6 m	1746.11 LUX
2.0 m	ø 0.8 m	982.19 LUX
2.5 m	ø 1.1 m	628.60 LUX
3.0 m	ø 1.3 m	436.53 LUX

UL300.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 995 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
0.5 m	ø 0.2 m	3978.72 LUX
1.0 m	ø 0.4 m	994.68 LUX
1.5 m	ø 0.6 m	442.08 LUX
2.0 m	ø 0.8 m	248.67 LUX
2.5 m	ø 1.1 m	159.15 LUX
3.0 m	ø 1.3 m	110.52 LUX

- **14W RGB & 24W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Ideal for water features up to 5 m high**

A submersible light compact enough to fit just about anywhere and powerful enough to vividly illuminate just about anything up to 5 meters. With power consumption of only 14W in RGB and 24W in White color, it becomes perfect value for money when it comes to efficient, "green" and yet powerful illumination.

UL600 incorporates 6 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses UL600 offers 7.848 candelas in white & 1.989 candelas in RGB, and with the optional spot lenses the light intensity goes up to 31.374cd & 7.953cd respectively.

LED DETAILS

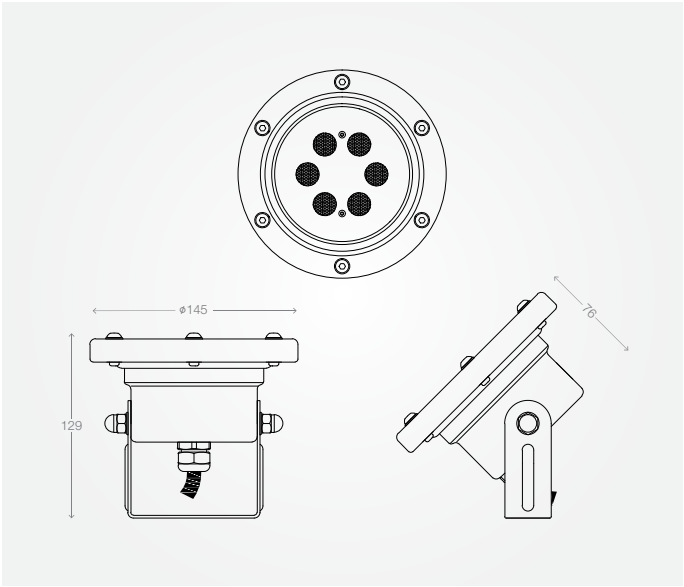
Amount of LEDs:	**6 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**24W (White) - 14W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**76mm** 3.0”
Height (incl. base):	**129mm** 5.1”
Body Width:	**145mm** 5.7”



HOUSING DETAILS

Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

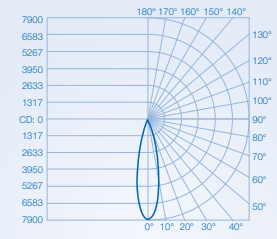
Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	14W	12-24V DC	24°	438 lm	UL600.RGB
White 6000K	24W	12-24V DC	24°	1730 lm	UL600.CW
White 3000K	24W	12-24V DC	24°	1244 lm	UL600.WW

Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**

UL600.CW

Polar Candela Distribution



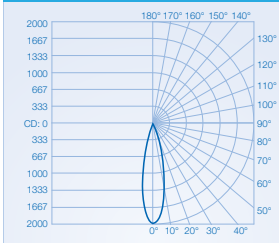
Beam Center: 7848 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
0.7 m	ø 0.3 m	17658.90 LUX
1.3 m	ø 0.6 m	4414.73 LUX
2.0 m	ø 0.8 m	1962.10 LUX
2.7 m	ø 1.1 m	1103.68 LUX
3.3 m	ø 1.4 m	706.36 LUX
4.0 m	ø 1.7 m	490.53 LUX

UL600.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 1989 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
0.7 m	ø 0.3 m	4476.04 LUX
1.3 m	ø 0.6 m	1119.01 LUX
2.0 m	ø 0.8 m	497.34 LUX
2.7 m	ø 1.1 m	279.75 LUX
3.3 m	ø 1.4 m	179.04 LUX
4.0 m	ø 1.7 m	124.33 LUX

- **20W RGB & 36W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessor on board**
- **Flicker-free Operation**
- **Ideal for water features up to 8 m high**

Small, compact and yet unbelievably powerful. UL650 is a reliable, heavy duty all-purpose submersible light, capable to illuminate vividly medium-large water features. With power consumption of only 20W in RGB and 36W in White color, it becomes perfect value for money when it comes to efficient, “green” and yet powerful illumination. UL650 is a luminaire made to perform exceptionally, trouble-free under the harshest conditions.

UL650 incorporates 9 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses UL650 offers 11.786 candelas in white & 2.984 candelas in RGB, and with the optional spot lenses the light intensity goes up to 47.080cd & 11.928cd respectively.

LED DETAILS

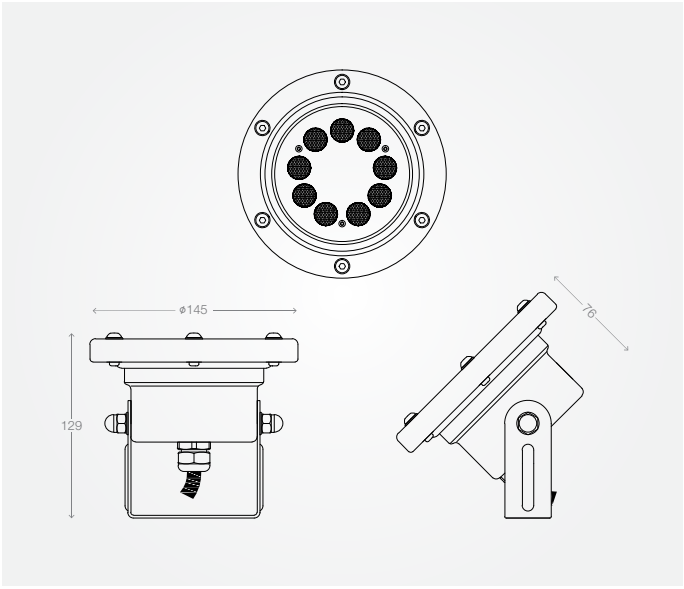
Amount of LEDs:	**9 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**36W (White) - 20W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**76mm** 3.0”
Height (incl. base):	**129mm** 5.1”
Body Width:	**145mm** 5.7”



HOUSING DETAILS

Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

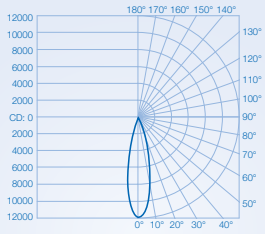
Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	20W	12-24V DC	24°	657 lm	UL650.RGB
White 6000K	36W	12-24V DC	24°	2595 lm	UL650.CW
White 3000K	36W	12-24V DC	24°	1866 lm	UL650.WW

Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**

UL650.CW

Polar Candela Distribution



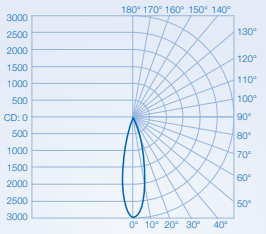
Beam Center: 11786 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
1.3 m	ø 0.6 m	6629.76 LUX
2.7 m	ø 1.1 m	1657.44 LUX
4.0 m	ø 1.6 m	736.64 LUX
5.3 m	ø 2.2 m	414.36 LUX
6.7 m	ø 2.8 m	265.19 LUX
8.0 m	ø 3.3 m	184.16 LUX

UL650.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 2984 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
1.3 m	ø 0.6 m	1678.52 LUX
2.7 m	ø 1.1 m	419.63 LUX
4.0 m	ø 1.6 m	186.50 LUX
5.3 m	ø 2.2 m	104.91 LUX
6.7 m	ø 2.8 m	67.14 LUX
8.0 m	ø 3.3 m	46.63 LUX

- **25W RGB & 48W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Ideal for water features up to 10 m high**

Versatile, with small form factor & exceptional illumination capabilities. UL700 is a heavy duty, all-purpose submersible light, capable to vividly illuminate medium-large water features. With power consumption of only 25W in RGB and 48W in White color, it becomes perfect value for money when it comes to efficient, “green” and yet powerful illumination.

UL700 incorporates 12 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses UL700 offers 15.706 candelas in white & 3.978 candelas in RGB, and with the optional spot lenses the light intensity goes up to 62.785cd & 15.905cd respectively.

LED DETAILS

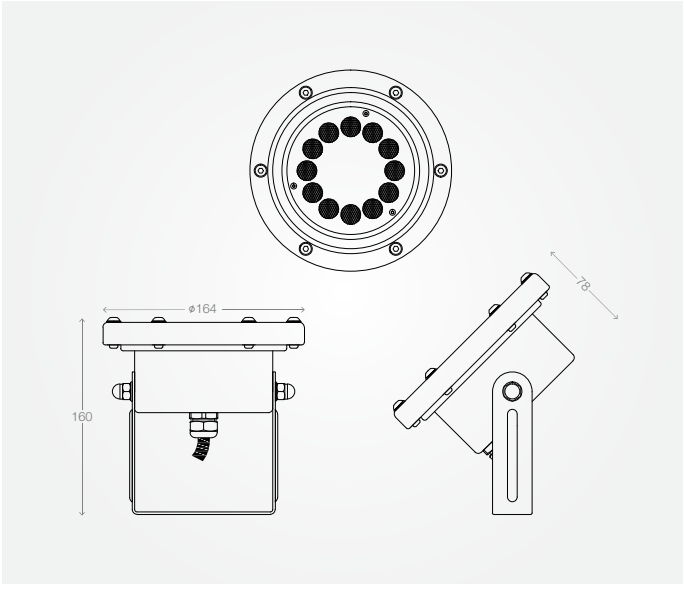
Amount of LEDs:	**12 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**48W (White) - 25W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**78mm** 3.1”
Height (incl. base):	**160mm** 6.3”
Body Width:	**164mm** 6.5”



HOUSING DETAILS

Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

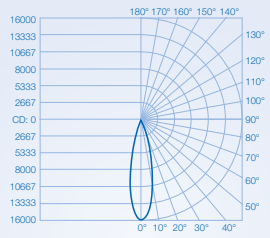
Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	25W	12-24V DC	24°	876 lm	UL700.RGB
White 6000K	48W	12-24V DC	24°	3460 lm	UL700.CW
White 3000K	48W	12-24V DC	24°	2488 lm	UL700.WW

Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**

UL700.CW

Polar Candela Distribution



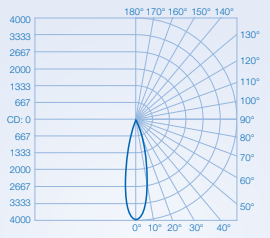
Beam Center: 15706 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
1.7 m	ø 0.7 m	5654.12 LUX
3.3 m	ø 1.4 m	1413.53 LUX
5.0 m	ø 2.1 m	628.24 LUX
6.7 m	ø 2.8 m	353.38 LUX
8.3 m	ø 3.5 m	226.16 LUX
10.0 m	ø 4.2 m	157.06 LUX

UL700.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 3978 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
1.7 m	ø 0.7 m	1432.33 LUX
3.3 m	ø 1.4 m	358.08 LUX
5.0 m	ø 2.1 m	159.15 LUX
6.7 m	ø 2.8 m	89.52 LUX
8.3 m	ø 3.5 m	57.29 LUX
10.0 m	ø 4.2 m	39.73 LUX

- **40W RGB & 72W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Ideal for water features up to 15 m high**

UL800 is a premium, heavy duty submersible light offering amazing illumination while keeping power consumption to the lowest possible level: only 40W in RGB and 72W in White color. It is designed for large fountain applications, where it can operate exceptionally, efficiently & most of all reliably under the harshest conditions.

UL800 incorporates 18 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection. For DMX-connection choose the .ADR option to give each luminaire a unique address.

With the standard lenses UL800 offers 23.559 candelas in white & 5.950 candelas in RGB, and with the optional spot lenses the light intensity goes up to 94.178cd & 23.839cd respectively.

LED DETAILS

Amount of LEDs:	**18 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**72W (White) - 40W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**77mm** 3.0”
Height (incl. base):	**165mm** 6.5”
Body Width:	**190mm** 7.5”

HOUSING DETAILS

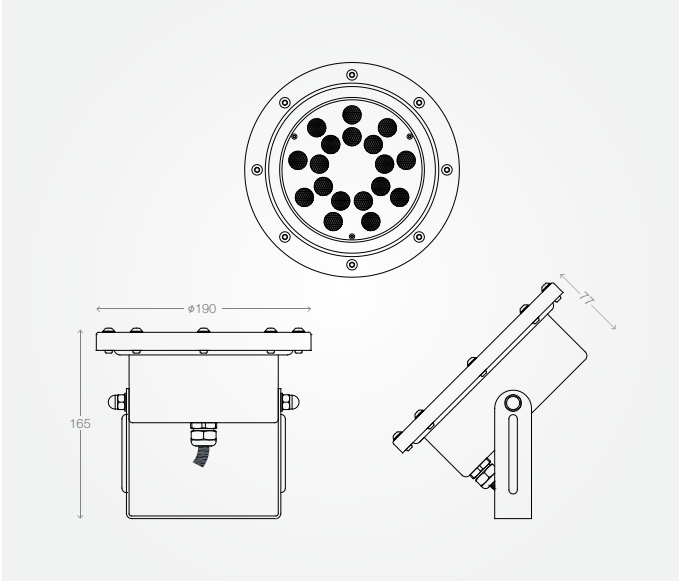
Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	40W	12-24V DC	24°	1314 lm	UL800.RGB
White 6000K	72W	12-24V DC	24°	5190 lm	UL800.CW
White 3000K	72W	12-24V DC	24°	3732 lm	UL800.WW

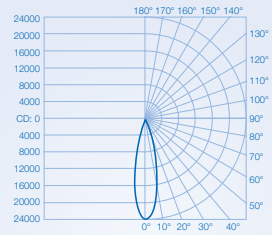
Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**



UL800.CW

Polar Candela Distribution



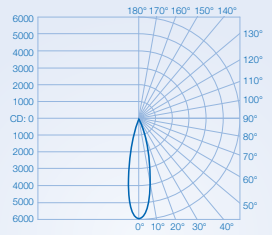
Beam Center: 23559 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
2.5 m	ø 1.1 m	3769.41 LUX
5.0 m	ø 2.1 m	942.35 LUX
7.5 m	ø 3.2 m	418.82 LUX
10.0 m	ø 4.2 m	235.59 LUX
12.5 m	ø 5.3 m	150.78 LUX
15.0 m	ø 6.3 m	104.71 LUX

UL800.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 5950 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
2.5 m	ø 1.1 m	951.98 LUX
5.0 m	ø 2.1 m	238.00 LUX
7.5 m	ø 3.2 m	105.78 LUX
10.0 m	ø 4.2 m	59.50 LUX
12.5 m	ø 5.3 m	38.08 LUX
15.0 m	ø 6.3 m	26.44 LUX

- **57W RGB & 88W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **Accepts Direct DMX Connection**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Ideal for water features up to 20 m high**

UL900 is a powerful, heavy duty, all-purpose, show-oriented submersible light, created for demanding applications. It boasts stunning illumination and wide controlling capabilities. In the .DMX variation, the luminaire can accept direct DMX input for easier integration in shows. With power consumption of 57W in RGB and 88W in White color, it becomes perfect value for money when it comes to powerful, yet "green" illumination.

UL900 incorporates 24 High-Power LEDs made by Cree, Inc. (USA) which provide 31.412 candelas in white & 7.948 candelas in RGB with the standard lenses, and by choosing the optional spot lenses the light intensity goes up to phenomenal values of 125.570cd & 31.792cd respectively. It is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. UL900 can be connected on any voltage between 10-30V DC without affecting intensity and it is available in RGB, Cool & Warm White. Standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection. UL900 is made for trouble-free, longtime operation under the harshest conditions.

LED DETAILS

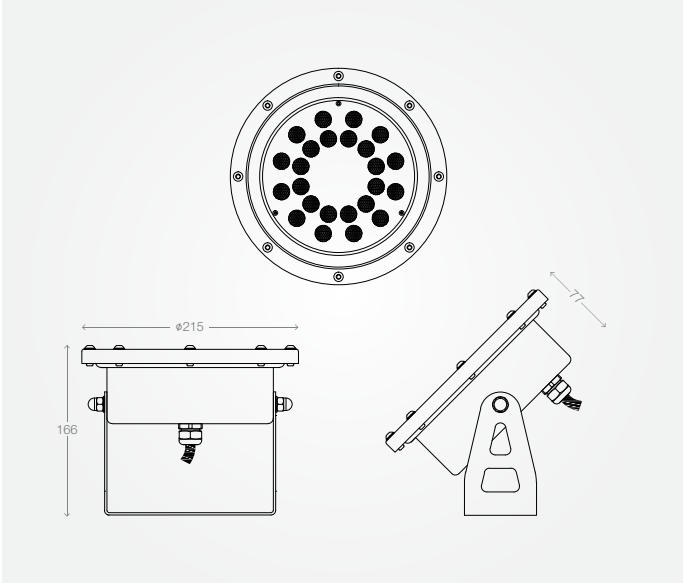
Amount of LEDs:	**24 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**88W (White) - 57W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**77mm** 3.0”
Height (incl. base):	**166mm** 6.5”
Body Width:	**215mm** 8.5”



HOUSING DETAILS

Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

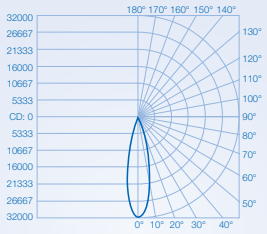
Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	57W	12-24V DC	24°	1752 lm	UL900.RGB
White 6000K	88W	12-24V DC	24°	6920 lm	UL900.CW
White 3000K	88W	12-24V DC	24°	4976 lm	UL900.WW

Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
DMX module with DMX-IN and digital addresser on board	**.DMX**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**
Telescopic Base	**.TSB**

UL900.CW

Polar Candela Distribution



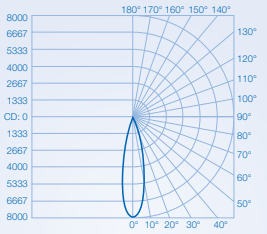
Beam Center: 31412 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
3.3 m	ø 1.4 m	2827.06 LUX
6.7 m	ø 2.8 m	706.77 LUX
10.0 m	ø 4.2 m	314.12 LUX
13.3 m	ø 5.6 m	176.69 LUX
16.7 m	ø 7.0 m	113.08 LUX
20.0 m	ø 8.4 m	78.53 LUX

UL900.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 7948 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
3.3 m	ø 1.4 m	715.35 LUX
6.7 m	ø 2.8 m	178.84 LUX
10.0 m	ø 4.2 m	79.48 LUX
13.3 m	ø 5.6 m	44.71 LUX
16.7 m	ø 7.0 m	28.61 LUX
20.0 m	ø 8.4 m	19.87 LUX

- **93W RGB & 180W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **Ideal for water features of 100m high or more**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Bracket**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Flicker-free Operation**
- **Available with addressable module**

UL1000 is a unique underwater luminaire, designed to illuminate vividly, efficiently and above all reliably the highest water features. Its rock-solid housing is made of superior quality, highly durable, corrosion & impact resistant AISI304 stainless steel (or 316 on request) and with power consumption of 93W in RGB and 180W in White color, it becomes perfect value for money when it comes to tremendously powerful, yet "green" illumination.

UL1000 incorporates 45 High-Power LEDs made by Cree, Inc. (USA) which provide 58.899 candelas in white & 14.916 candelas in RGB with the standard lenses, and by choosing the optional spot lenses the light intensity goes up to phenomenal values of 235.435cd & 59.626cd respectively. It is a Class III luminaire, CE certified, offering IP68 protection degree. It can be connected on any voltage between 10-30V DC without affecting intensity and it is available in RGB, Cool & Warm White. Standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

LED DETAILS

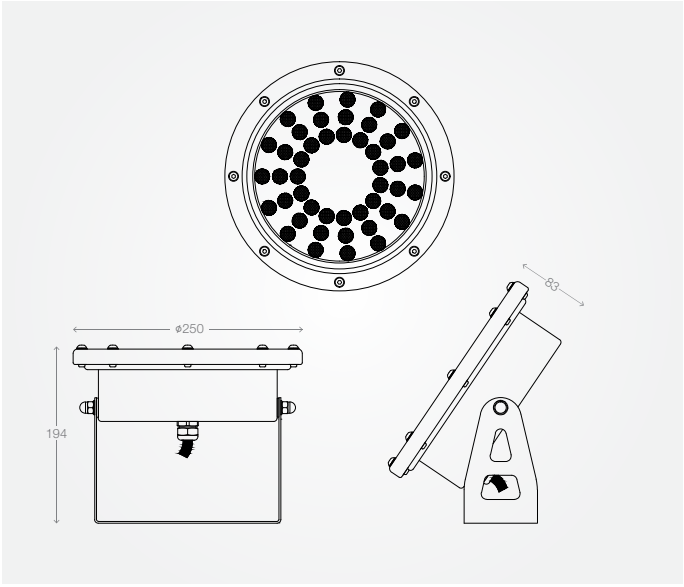
Amount of LEDs:	**45 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**180W (White) - 93W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**83mm** 3.3”
Height (incl. base):	**194mm** 7.6”
Body Width:	**250mm** 9.8”



HOUSING DETAILS

Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Bracket**

HOW TO ORDER

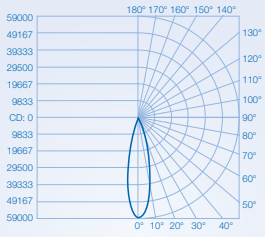
Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	93W	12-24V DC	24°	3285 lm	UL1000.RGB
White 6000K	180W	12-24V DC	24°	12975 lm	UL1000.CW
White 3000K	180W	12-24V DC	24°	9330 lm	UL1000.WW

Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Free Standing Base	**.FSB**
Telescopic Base	**.TSB**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
Addressable module	**.ADR**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**
Rockguard	**.AV**

UL1000.CW

Polar Candela Distribution



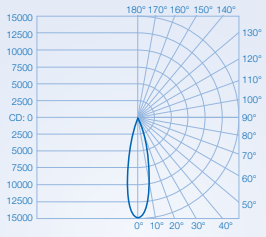
Beam Center: 58899 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
8.3 m	ø 3.5 m	848.15 LUX
16.7 m	ø 7.0 m	212.04 LUX
25.0 m	ø 10.5 m	94.24 LUX
33.3 m	ø 14.0 m	53.01 LUX
41.7 m	ø 17.5 m	33.93 LUX
50.0 m	ø 21.0 m	23.56 LUX

UL1000.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 14916 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
8.3 m	ø 3.5 m	214.78 LUX
16.7 m	ø 7.0 m	53.70 LUX
25.0 m	ø 10.5 m	23.86 LUX
33.3 m	ø 14.0 m	13.42 LUX
41.7 m	ø 17.5 m	8.59 LUX
50.0 m	ø 21.0 m	5.97 LUX

- **With 1" Male thread for direct mounting of nozzles**
- **20W RGB & 36W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Brackets**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessor on board**
- **Ideal for water features up to 8 m high**

The ultimate solution in terms of versatility and exceptional illumination. This luminaire sports 9 ultra-vivid High Power LEDs, incredible technologies and most of all it offers an 1" male threaded connection for a nozzle to be directly mounted. This way the light beam follows precisely the water stream at any angle. With power consumption of only 20W in RGB and 36W in White color, it becomes perfect value for money when it comes to efficient, "green" and yet powerful illumination.

ULR650 incorporates 9 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses, ULR650 offers 11.786 candelas in white & 2.984 candelas in RGB, and with the optional spot lenses the light intensity goes up to 47.080cd & 11.928cd respectively.

LED DETAILS

Amount of LEDs:	**9 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**36W (White) - 20W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**73mm** 2.9”
Height (incl. base):	**159mm** 6.3”
Body Width:	**164mm** 6.5”

HOUSING DETAILS

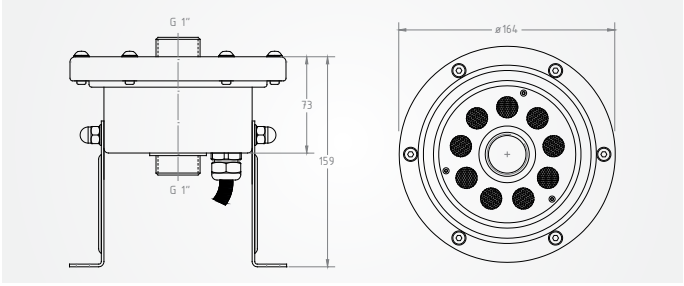
Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Brackets**
Thread:	**1” BSP/NPT Male**

HOW TO ORDER

Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	20W	12-24V DC	24°	657 lm	ULR650.RGB
White 6000K	36W	12-24V DC	24°	2595 lm	ULR650.CW
White 3000K	36W	12-24V DC	24°	1866 lm	ULR650.WW

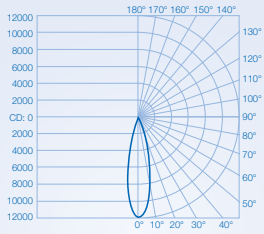
Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**



ULR650.CW

Polar Candela Distribution



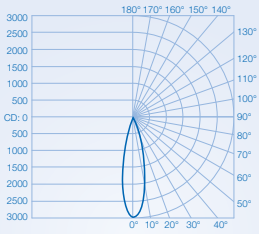
Beam Center: 11786 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
1.3 m	ø 0.6 m	6629.76 LUX
2.7 m	ø 1.1 m	1657.44 LUX
4.0 m	ø 1.6 m	736.64 LUX
5.3 m	ø 2.2 m	414.36 LUX
6.7 m	ø 2.8 m	265.19 LUX
8.0 m	ø 3.3 m	184.16 LUX

ULR650.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 2984 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
1.3 m	ø 0.6 m	1678.52 LUX
2.7 m	ø 1.1 m	419.63 LUX
4.0 m	ø 1.6 m	186.50 LUX
5.3 m	ø 2.2 m	104.91 LUX
6.7 m	ø 2.8 m	67.14 LUX
8.0 m	ø 3.3 m	46.63 LUX

- **With 1¼" Male thread for direct mounting of nozzles**
- **25W RGB & 48W White**
- **12-24V DC (10-30V operating range)**
- **Incredible Light Intensity & Vivid Colors**
- **AISI 304 Stainless Steel Housing (available in 316)**
- **IP68 Protection Degree - Class III**
- **16-Step Thermal Protection**
- **Reverse Polarity Protection**
- **Stainless Steel Mounting Brackets**
- **Stylish Design & Finishing**
- **High corrosion and impact resistance**
- **Ships with 3 m waterproof cable**
- **Microprocessors on board**
- **Ideal for water features up to 10 m high**

Ideal illumination and a highly versatile mounting method. This luminaire sports 12 ultra-vivid High Power LEDs, incredible technologies and most of all it offers a 1¼" male threaded connection for a nozzle to be directly mounted. This way the light beam follows precisely the water stream at any angle. With power consumption of only 25W in RGB and 48W in White color, it becomes perfect value for money when it comes to efficient, "green" and yet powerful illumination.

ULR700 incorporates 12 High-Power LEDs made by Cree, Inc. (USA) and it is a Class III luminaire, CE certified, offering IP68 protection degree. Its housing is made of superior quality, highly durable & corrosion resistant AISI304 stainless steel (or 316 on request) with stylish finishing. It is available in RGB, Cool & Warm White, and standard models ship with 3 meters of waterproof chlorine-resistant cable.

The led:bus protocol permits easier and faster installation, requiring only 3-wire cables for RGB models, and the LED module incorporates a Microprocessor handling data such as ID, color, intensity, temperature & status with advanced safety features like 16-step thermal protection and reverse polarity protection.

With the standard lenses, ULR700 offers 15.706 candelas in white & 3.978 candelas in RGB, and with the optional spot lenses the light intensity goes up to 62.785cd & 15.905cd respectively.

LED DETAILS

Amount of LEDs:	**12 High Power LEDs** (Made by Cree, Inc. - USA)
Lens Details:	**24° Standard** 11° and 40° on request
Module Type:	**TheSmartLEDModule™** - led:bus equipped
Self-Protection:	**16-Step Thermal Protection & Reverse Polarity**
Operating Temp.:	**-5°C to 65°C** 23°F to 150°F
LEDbus Protocol:	**Yes** RGB models require only 3-wire cable to operate
Lifespan:	**100.000 hrs max.** (complies with L70-spec, in 50.000 hrs led initial flux will not degrade by more than 30%)

ENERGY - ELECTRICAL

Power Consumption:	**48W (White) - 25W (RGB)**
Voltage:	**12-24V DC** 10 - 30V Operating Range - without affecting intensity
Cable:	**3.0 Meters chlorine resistant HO7RN-F Standard** 5M, 10M or custom length on request
Power Supply:	**Available** (See page 232)
RGB Controller:	**Available** (See page 227) Please note that this luminaire operates only with Fontana led:bus RGB Controllers. When in standalone operation, RGB spotlights create a continuously varying RGB sequence.

SIZE

Height (excl. base):	**70mm** 2.8”
Height (incl. base):	**162mm** 6.4”
Body Width:	**190mm** 7.5”

HOUSING DETAILS

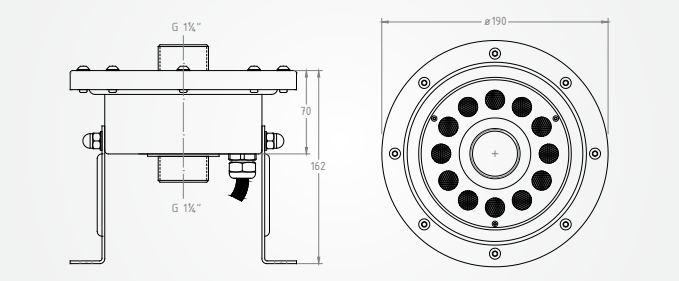
Material (Standard):	**Stainless Steel AISI 304** 1.4301
Material (Optional):	**Stainless Steel AISI 316** 1.4401
Finishing (Standard):	**Shiny Polished**
Second Cable Gland:	Available on request
Protection Glass:	**Tempered Heat Resistant Safety Glass**
Protection Degree:	**IP68 Protection Certified** Watertight up to 2m
Safety Class:	**III**
Mounting:	**Heavy duty, Floor-mounted Stainless Steel Brackets**
Thread:	**1¼” BSP/NPT Male**

HOW TO ORDER

Color	Power	Voltage	Beam Angle	Lumens	Part Nr.
RGB	25W	12-24V DC	24°	876 lm	ULR700.RGB
White 6000K	48W	12-24V DC	24°	3460 lm	ULR700.CW
White 3000K	48W	12-24V DC	24°	2488 lm	ULR700.WW

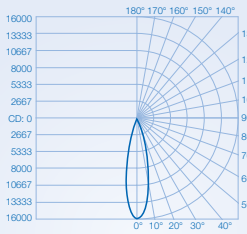
Available Options:
To include one of the following options, add the appropriate suffix to the end of the Part Nr.

316 (1.4401) Stainless Steel Construction	**.316**
5 meters chlorine resistant cable HO7RN-F:	**.5H**
Second cable gland (if selected, luminaire ships unwired)	**.SCG**
PWM module (only for RGB model)	**.PWM**
Dimmable (only for White models)	**.DIM**
Wide Beam Lenses - 40°	**.F**
Spot Beam Lenses - 11°	**.S**



ULR700.CW

Polar Candela Distribution



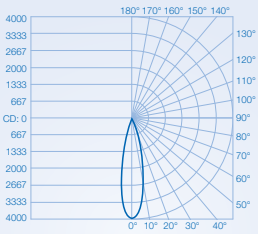
Beam Center: 15706 cd

Illuminance Cone

Distance	Beam	Center Beam LUX
1.7 m	ø 0.7 m	5654.12 LUX
3.3 m	ø 1.4 m	1413.53 LUX
5.0 m	ø 2.1 m	628.24 LUX
6.7 m	ø 2.8 m	353.38 LUX
8.3 m	ø 3.5 m	226.16 LUX
10.0 m	ø 4.2 m	157.06 LUX

ULR700.RGB

Polar Candela Distribution



Photometric Test on White (R,G,B at 100%)
Beam Center: 3978 cd
Multipliers: Red 0.25, Green 0.65, Blue 0.1

Illuminance Cone

Distance	Beam	Center Beam LUX
1.7 m	ø 0.7 m	1432.33 LUX
3.3 m	ø 1.4 m	358.08 LUX
5.0 m	ø 2.1 m	159.15 LUX
6.7 m	ø 2.8 m	89.52 LUX
8.3 m	ø 3.5 m	57.29 LUX
10.0 m	ø 4.2 m	39.73 LUX