RINO

RISK
GROUP
EXEMPT

Corrosion resistant

Thanks to the total absence of welded joints.

Vibration free

Thanks to the fixing pins and preassembled anti-vibration system.

High performance over time

Thanks to the diffuser in unbreakable polycarbonate, with V2 self-extinguishing grade, anti yellowing, stabilised against UV rays.

Palazzoli

The RINO light fixtures for marine use have been designed to be always the optimal product irrespectively of the type of boat to be illuminated.

Versions are available for outdoor use, with body in AISI 316L stainless steel painted white and diffuser in transparent or opal polycarbonate, for indoor use, with body in white painted galvanised steel, diffuser in transparent or opal polycarbonate and for bulkheads.

The total absence of welds replaced by "buttons" guarantees the stainlessness of the light fixture and consequently an extremely long durability. The light fixtures are equipped with stainless steel fixing pins with anti-vibration system.

Stainless steel click connections guarantee perfect tightness and maximum impact resistance.

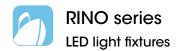|	
Compliance with standards	**Directive 2014/35/EU** **EN 60598-1** **EN 60598-2-1** **EN 62471** **EN 60598-2-22** **EN 62493** **IEC/TR 62778** **Directive 2014/30/EU** **EN 55015** **EN 61547** **EN 61000-3-2** **EN 61000-3-3** **Directive 2011/65/EU** **EN 50581**
Material	**Painted AISI 316L stainless steel** **Painted galvanised steel**
Paint	**Non-toxic polyester resistant to weather conditions and UV rays**
Colour	**White RAL 9016**
Diffuser material	**Transparent polycarbonate and opal polycarbonate**
Protection rating (IP according to IEC/EN 60529)	**IP66/IP67**
Impact resistance (IK rating according to IEC/EN 62262)	**IK09**
LED colour temperature	**4000K (on request 3000K; 6500K)**
CRI	**90**
Fluorescent lamp holder	**G5 T5**
Supply voltage	**180V -260V**
Frequency	**0-50-60Hz**
Input surge protection	**2 kV EN 61000**
Photobiological risk	**RG0**
Power factor	**≥ 0.9**
Max conductor cross-section	**2.5 mm²**
Entry cable diameter	**7 - 15 mm**
Emergency battery lifetime	**3h**
Emergency battery charging time	**24h**
Insulation class	**I**
Estimated device lifetime	**L80 B20 @50.000h Tq=-25 °C to +50 °C**
Storage temperature	**-40°C - +70°C**
Operating temperature	**-25°C - +50°C (Special solutions for low temperature applications available on request)**

RINA

The photometric curves (LDT files) are available on www.palazzolilux.com

Resistance to chemical agents

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑

OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance

LED light fixtures
in **painted galvanised steel
transparent polycarbonate**
with extra wide beam optics
IP66/IP67

2 entries on one side   1 entry on one side   M20 cable gland in brass

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	**849141**	1
40 (2x20)	690	4.400	standard	9	**849142**	1
40 / 20+20	1300	4.400	standard	9	**849243**	1
20	690	2.200	emergency	9	**849171**	1
40 (2x20)	690	4.400	emergency	9	**849172**	1
40 / 20+20	1300	4.400	emergency	9	**849273**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
2 M8 threaded holes for fixing the accessories.
Notes: the stated values may be subject to a +/- 7% tolerance.

LED light fixtures
in **painted galvanised steel
opal polycarbonate**
with extra wide beam optics
IP66/IP67

2 entries on one side   1 entry on one side   M20 cable gland in brass

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	**841141**	1
40 (2x20)	690	4.400	standard	9	**841142**	1
40 / 20+20	1300	4.400	standard	9	**841243**	1
20	690	2.200	emergency	9	**841171**	1
40 / 20+20	1300	4.400	emergency	9	**841273**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
2 M8 threaded holes for fixing the accessories.
Notes: the stated values may be subject to a +/- 7% tolerance.

LED light fixtures
in **painted AISI 316L
stainless steel
opal polycarbonate**
with extra wide beam optics
IP66/IP67

2 entries on one side   1 entry on one side   M20 cable gland in brass

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	**878141**	1
40 (2x20)	690	4.400	standard	9	**878142**	1
40 / 20+20	1300	4.400	standard	9	**878243**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
2 M8 threaded holes for fixing the accessories.
Notes: the stated values may be subject to a +/- 7% tolerance.

EMERGENCY FLUX	
Rated flux (lm) Tj= 25 °C	Rated flux in emergency (lm)
2.200	962
4.400	945

Notes: the emergency flux is achieved by reducing the rated flux of the unit.

LED LIGHT FIXTURES FOR BULKHEADS

LED light fixtures
for bulkhead mounts
in **painted AISI 316L stainless steel
opal polycarbonate**
with extra wide beam optics
IP66/IP67

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	**878741**	1
40 (2x20)	690	4.400	standard	9	**878742**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
Notes: the light fixture is completed with the code 820007.
The stated values may be subject to a +/- 7% tolerance.

Technical accessories:

Fluorescent light fixtures in **painted galvanised steel transparent polycarbonate IP66/IP67**

2 entries on one side   1 entry on one side   M20 cable gland in brass

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690			32	**849062**	1
2x24	690	T5	standard	32	**849562**	1
2x28	1300			32	**849462**	1
1+1x14	690			32	**849011**	1
1+1x24	690	T5	emergency	32	**849511**	1
1+1x28	1300			32	**849411**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
Fixing kit with screws, gaskets and washers.
Features: fluorescent tubes are not included.

Fluorescent light fixtures in **painted AISI 316L stainless steel opal polycarbonate IP66/IP67**

2 entries on one side   1 entry on one side   M20 cable gland in brass

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690			33	**879062**	1
2x24	690	T5	standard	33	**879562**	1
2x28	1300			33	**879462**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
Fixing kit with screws, gaskets and washers.
Features: fluorescent tubes are not included.

Fluorescent light fixtures in **painted galvanised steel opal polycarbonate IP66/IP67**

2 entries on one side   1 entry on one side   M20 cable gland in brass

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690			33	**841062**	1
2x24	690	T5	standard	33	**841562**	1
2x28	1300			33	**841462**	1
1+1x14	690	T5	emergency	33	**841011**	1
1+1x28	1300			33	**841411**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
2 cable glands and 1 nickel-plated brass cap.
Fixing kit with screws, gaskets and washers.
Features: fluorescent tubes are not included.

FLUORESCENT LIGHT FIXTURES FOR BULKHEAD

Fluorescent light fixtures for bulkhead installation in **painted AISI 316L stainless steel opal polycarbonate IP66/IP67**

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690	T5	standard	33	**881062**	1
2x24	690			33	**881562**	1

Equipment included: 2 terminal blocks 2P+⏚ for supply line entry/exit.
Features: fluorescent tubes are not included.
Notes: the light fixture is completed with the code 820007.

Pair of stainless steel brackets for bulkhead fixing

Manufacturing material	Palazzoli code	Pack Qty
AISI 316L stainless steel	**820007**	1

MARINE AND APPLICATIONS