



TYPE APPROVAL CERTIFICATE



N. ELE101419CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA, type approval system.

<i>Description</i>	Navigation Lights
<i>Type</i>	Series: Utility 77-78-85 1141401; 1141402; 1141403; 1141404; 1141405; 1141501; 1141502; 1141503; 1141504; 1141505; 1141601; 1141602; 1141603; 1141604; 1141605; 1142501; 1142502; 1142503; 1142504; 1142505; 1141701; 1141702; 1141703; 1141704; 1141705; 1141711; 1141712; 1141713; 1141714; 1141715; 1142701; 1142702; 1142703; 1142704; 1142705; 1142711; 1142712; 1142713; 1142714; 1142715;
<i>Applicant</i>	Osculati Srl Via Masolino da Panicale, 6 20155 Milano (MI) Italy
<i>Manufacturer</i>	Osculati Srl Via Pacinotti, 12 20090 Segrate (MI) Italy
<i>Testing Standards</i>	Convention on the International Regulation for Preventing Collision at Sea. (COLREG 1972) - Ref. to Italian Law 27th December 1977 n. 1085

Issued in **Genova** on September 16, 2019

This certificate is valid until **September 16, 2024**

RINA service S.p.A.

Giovanni Carratino



N. ELE101419CS

Description:

Navigation lights for recreational craft having length less than 12 meters

Light Type	Model	Lens Color	Lens Material	Bulb Lamp Supply	Horizon Arc	Cover Material	Protection (IP)	Visibility
Port Side Light	1141401	Red	PMMA	12V – 10W	112.5°	Cover INOX	IP 56	1 mile
Starboard Side Light	1141402	Green	PMMA	12V – 10W	112.5°	Cover INOX	IP 56	1 mile
Masthead Light	1141403	White	PMMA	12V – 10W	225°	Cover INOX	IP 56	2 miles
Stern Side Light	1141404	White	PMMA	12V – 10W	135°	Cover INOX	IP 56	2 miles
Bicolor	1141405	R+G	PMMA	12V – 10W	2x112.5°	Cover INOX	IP 56	1 mile
Port Side Light	1141501	Red	PMMA	12V – 10W	112.5°	Polycarb. Black	IP 56	1 mile
Starboard side Light	1141502	Green	PMMA	12V – 10W	112.5°	Polycarb. Black	IP 56	1 miles
Masthead Light	1141503	White	PMMA	12V – 10W	225°	Polycarb. Black	IP 56	2 miles
Stern Side Light	1141504	White	PMMA	12V – 10W	135°	Polycarb. Black	IP 56	2 miles
Bicolor	1141505	R+G	PMMA	12V – 10W	2x112.5°	Polycarb. Black	IP 56	1 mile
Port Side Light	1141601	Red	PMMA	12V – 10W	112.5°	Backside Cover	IP 56	1 mile
Starboard side Light	1141602	Green	PMMA	12V – 10W	112.5°	Backside Cover	IP 56	1 miles
Masthead Light	1141603	White	PMMA	12V – 10W	225°	Backside Cover	IP 56	2 miles
Stern Side Light	1141604	White	PMMA	12V – 10W	135°	Backside Cover	IP 56	2 miles
Bicolor	1141605	R+G	PMMA	12V – 10W	2x112.5°	Backside Cover	IP 56	1 mile
Port Side Light	1142501	Red	PMMA	12V – 10W	112.5°	Polycarb. White	IP 56	1 mile
Starboard side Light	1142502	Green	PMMA	12V – 10W	112.5°	Polycarb. White	IP 56	1 miles
Masthead Light	1142503	White	PMMA	12V – 10W	225°	Polycarb. White	IP 56	2 miles
Stern Side Light	1142504	White	PMMA	12V – 10W	135°	Polycarb. White	IP 56	2 miles
Bicolor	1142505	R+G	PMMA	12V – 10W	2x112.5°	Polycarb. White	IP 56	1 mile

N. ELE101419CS

Navigation lights for recreational craft having length less than 20 meters

Light Type	Model	Lens Color	Lens Material	Bulb Lamp Supply	Horizon Arc	Cover Material	Protection (IP)	Visibility
Port Side Light	1141701	Red	PMMA	12V – 25W	112.5°	Polycarb. Black	IP 56	2 miles
Starboard Side Light	1141702	Green	PMMA	12V – 10W	112.5°	Polycarb. Black	IP 56	2 miles
Masthead Light	1141703	White	PMMA	12V – 10W	225°	Polycarb. Black	IP 56	3 miles
Stern Side Light	1141704	White	PMMA	12V – 10W	135°	Polycarb. Black	IP 56	2 miles
Bicolor	1141705	R+G	PMMA	12V – 25W	2x112.5°	Polycarb. Black	IP 56	2 miles
Port Side Light	1141711	Red	PMMA	24V – 25W	112.5°	Polycarb. Black	IP 56	2 miles
Starboard side Light	1141712	Green	PMMA	24V – 10W	112.5°	Polycarb. Black	IP 56	2 miles
Masthead Light	1141713	White	PMMA	24V – 10W	225°	Polycarb. Black	IP 56	3 miles
Stern Side Light	1141714	White	PMMA	24V – 10W	135°	Polycarb. Black	IP 56	2 miles
Bicolor	1141715	R+G	PMMA	24V – 25W	2x112.5°	Polycarb. Black	IP 56	2 miles
Port Side Light	1142701	Red	PMMA	12V – 25W	112.5°	Polycarb. White	IP 56	2 miles
Starboard Side Light	1142702	Green	PMMA	12V – 10W	112.5°	Polycarb. White	IP 56	2 miles
Masthead Light	1142703	White	PMMA	12V – 10W	225°	Polycarb. White	IP 56	3 miles
Stern Side Light	1142704	White	PMMA	12V – 10W	135°	Polycarb. White	IP 56	2 miles
Bicolor	1142705	R+G	PMMA	12V – 25W	2x112.5°	Polycarb. White	IP 56	2 miles
Port Side Light	1142711	Red	PMMA	24V – 25W	112.5°	Polycarb. White	IP 56	2 miles
Starboard Side Light	1142712	Green	PMMA	24V – 10W	112.5°	Polycarb. White	IP 56	2 miles
Masthead Light	1142713	White	PMMA	24V – 10W	225°	Polycarb. White	IP 56	3 miles
Stern Side Light	1142714	White	PMMA	24V – 10W	135°	Polycarb. White	IP 56	2 miles
Bicolor	1142715	R+G	PMMA	24V – 25W	2x112.5°	Polycarb. White	IP 56	2 miles

Osculati data sheets:

1141401 to 1141405; 1141701/1142701 to 1141705/1142705; 1141711/1142711 to 1141715/1142715; 1141501/1142501 to 1141505/1142505

EuroLens test reports:

0341/EU19 - COLREG performance (03/07/2019); 0342/EU19 - COLREG performance (03/07/2019)
 0343/EU19 - COLREG performance (03/07/2019); 0348/EU19 - COLREG performance (09/07/2019)
 0349/EU19 - COLREG performance (10/07/2019)
 0275/EU19 (06/05/2019) voltage variation; 0276/EU19 (06/05/2019) voltage variation

Teslab test reports: 196188A (2019-07-15) IP test EN60529

Remarks: Navigation lights to be used and installed in accordance with COLREG Requirements as well as the manufacturer instructions.

