EC – Declaration of Conformity

Document Number:	2022/macto_1_en
Manufacturer or representative:	BRIGHT SPECIAL LIGHTING s.a.
Address:	13 Sofokli Venizelou Avenue, GR-14123 Lykovrysi – Athens, Greece
Brand name or trademark:	BRIGHT SPECIAL LIGHTING
Product Type:	Fixed Outdoor Watertight LED fixture
Product designation:	MACTO
Product range:	See attached list in the annex

The designated product(s) is (are) in conformity with the provisions of the following European directives.

☒ **2014/35/EU** and amendments	**Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits. (LVD).**
☒ **2014/30/EU** and amendments	**Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility. (EMC).**
☒ **2011/65/EC** and amendments	**Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.**
☒ **2009/125/EC** and amendments	**Directive of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products**
☒ **2019/2020 (EU)** and amendments	**Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012**

Further information regarding compliance with these directives is given in the **annex** which constitutes a part of this declaration.

Last two (2) digits of the year the marking was affixed: CE 22

Place and date of signatures: Athens, 7 December 2022

Signatures:

Eng. Alkiviadis Vardakas
Chemical and Process Engineer
Laboratory Manager

Konstantinos Matsiakas
MEng in Electrical & Computer Engineering
Product Manager

	Laboratory Manager	Product Manager
Names:	Alkiviadis Vardakas	Konstantinos Matsiakas

This declaration of conformity is issued under the sole responsibility of the manufacturer. It certifies compliances with the indicated Directives, but implies no warranty of properties.

The conformity of the designated product(s) with the provisions of the European Directive **2014/35/EU** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition / amendment as referenced below applies.

☒	**EN IEC 60598-1:** 2021	Luminaires - Part 1: General requirements and tests
☒	**EN 60598-2-1:** 1989	Luminaires - Part 2: Particular requirements - Section 1: Fixed general purpose luminaires
☐	**EN 60598-2-2:** 2012	Luminaires - Part 2: Particular requirements – Section 2: Recessed luminaires
☐	**EN 60598-2-3:** 2003 + A1:2011	Luminaires - Part 2: Particular requirements – Section 3: Luminaires for road and street lighting
☐	**EN 60598-2-4:** 2018	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires
☐	**EN 60598-2-5:** 2015	Luminaires - Part 2: Particular requirements – Section 5: Floodlights
☐	**EN 60598-2-8:** 2013	Luminaires - Part 2: Particular requirements – Section 8: Handlamps
☐	**EN 60598-2-10:** 2003 + corrigendum Aug. 2005	Luminaires - Part 2: Particular requirements – Section 10: Portable luminaires for children
☐	**EN 60598-2-11:** 2013	Luminaires - Part 2: Particular requirements – Section 11: Aquarium luminaires
☐	**EN 60598-2-12:** 2013	Luminaires - Part 2: Particular requirements – Section 12: Mains socket-outlet mounted nightlights
☐	**EN 60598-2-13:** 2006 + A11:2021	Luminaires - Part 2: Particular requirements – Section 13: Ground recessed luminaires
☐	**EN 60598-2-14:** 2009	Luminaires - Part 2: Particular requirements – Section 14: Luminaires for cold cathode tubular discharge lamps (neon tubes) and similar equipment
☐	**EN 60598-2-17:** 2018	Luminaires - Part 2: Particular requirements - Section 17: Luminaires for stage lighting, television film and photographic studios (outdoor and indoor)
☐	**EN 60598-2-18:** 1994 + A1:2012	Luminaires - Part 2: Particular requirements - Section 18: Luminaires for swimming pools and similar applications
☐	**EN 60598-2-19:** 1989 + corrigendum Dec. 2005	Luminaires - Part 2: Particular requirements - Section 19: Air-handling luminaires (safety requirements)
☐	**EN 60598-2-20:** 2015 + AC:2017-01	Luminaires - Part 2: Particular requirements – Section 20: Lighting chains
☐	**EN 60598-2-21:** 2015 + AC:2017-01	Luminaires - Part 2-21: Particular requirements - Rope lights

☐	**EN 60598-2-22:** 2014 +AC:2016-09	Luminaires - Part 2: Particular requirements – Section 22: Luminaires for emergency lighting
☐	**EN 60598-2-23:** 2021	Luminaires - Part 2-23: Particular requirements - Extra-low-voltage lighting systems for ELV light sources
☐	**EN 60598-2-24:** 2013	Luminaires - Part 2: Particular requirements - Section 24: Luminaires with limited surface temperatures
☐	**EN 60598-2-25:** 1994 + A1:2004	Luminaires - Part 2: Particular requirements – Section 25: Luminaires for use in clinical areas of hospitals and health care buildings
☒	**EN 62471:** 2015	Photobiological safety of lamps and lamp systems (incl.IEC/TR 62471-2)
☒	**IEC TR 62778:** 2014	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires

The conformity of the designated product(s) with the provisions of the European Directive **2014/30/EU** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

☒	**EN 55015:** 2019 + A11:2021	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
☒	**EN 61000-3-2:** 2019 + A1:2021	Electromagnetic compatibility (EMC) - Part 3: Limits – Section 2: Limits for harmonic current emissions (equipment input current <= 16 A per phase)
☒	**EN 61000-3-3:** 2013 + A2:2021 + AC:2022-01	Electromagnetic compatibility (EMC) - Part 3: Limits – Section 3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection
☒	**EN 61547:** 2009	Equipment for general lighting purposes - EMC immunity requirements

The conformity of the designated product(s) with the provisions of the European Directive **2011/65/EC** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

☒	**EN 50581:** 2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Attached list

Product(s) range conformable to this Declaration

This Declaration of Conformity is referring to the following product range, manufactured with an integral led module and/or an integral or independent led control gear.

MACTO 1

MACTO 1 B

MACTO 2

MACTO 2 SMALL

MACTO 3

MACTO NOXA

MACTO NOXA SMALL

MACTO NOXA 3

MACTO NOXA 3 SMALL