



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH

certifies that



**LUG LIGHT FACTORY Sp. z o.o.**

ul. Gorzowska 11  
65-127 Zielona Góra  
Poland

including the sites and scope of application  
see enclosure

has established and applies  
a Quality Management System.

An audit was performed, Report No. **73423157**.

Proof has been furnished that the requirements  
according to

**ISO 9001:2015**

are fulfilled.

The certificate is valid from **2018-04-03** until **2021-03-06**.

Previous certificate valid until 2018-03-06.

Certificate Registration No.: **12 100 23152 TMS**.

Product Compliance Management  
Munich, 2018-04-05





## Enclosure of Certificate Registration No.: 12 100 23152 TMS

| Sites                                                                                    | Scope of application                                 |
|------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>LUG LIGHT FACTORY Sp. z o.o.</b><br>ul. Gorzowska 11<br>65-127 Zielona Góra<br>Poland | Designing, production and sales of lighting systems. |
| <b>Lug Light Factory Sp. z o.o.</b><br>ul. Nowa 7<br>66-002 Nowy Kisielin<br>Poland      | Designing and production of lighting systems.        |

Product Compliance Management  
Munich, 2018-04-05



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ul. Gorzowska 11  
65-127 Zielona Góra  
Poland

including the sites and scope of application  
see enclosure

has established and applies  
an Environmental Management System.

An audit was performed, Report No. **73423157**.

Proof has been furnished that the requirements  
according to

**ISO 14001:2015**

are fulfilled.

The certificate is valid from **2018-04-03** until **2021-04-02**.

Certificate Registration No.: **12 104 23152 TMS**.

Product Compliance Management  
Munich, 2018-04-05





Management Service

**Enclosure of Certificate Registration No.:**  
**12 104 23152 TMS**

| Sites                                                                                    | Scope of application                                 |
|------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>LUG LIGHT FACTORY Sp. z o.o.</b><br>ul. Gorzowska 11<br>65-127 Zielona Góra<br>Poland | Designing, production and sales of lighting systems. |
| <b>Lug Light Factory Sp. z o.o.</b><br>ul. Nowa 7<br>66-002 Nowy Kisielin<br>Poland      | Designing and production of lighting systems.        |

Product Compliance Management  
Munich, 2018-04-05

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**LUG LIGHT FACTORY Sp. z o.o.**

**ul. Gorzowska 11  
 65-127 Zielona Góra  
 Poland**

Scope of application

**Designing, production and sales of  
 lighting systems**

**ul. Nowa 7  
 66-002 Nowy Kisielin  
 Poland**

Scope of application

**Designing and production of  
 lighting systems**

has established and applies  
 an Energy Management System.

An audit was performed, Report No. **73424335**.

Proof has been furnished that the requirements according to

**ISO 50001:2011**

are fulfilled.

The certificate is valid from **2018-04-18** until **2021-04-17**.

Certificate Registration No.: **12 340 23152 TMS**.

*M. Wegner*

Product Compliance Management  
 Munich, 2018-04-18



Deutsche  
 Akkreditierungsstelle  
 D-ZM-14143-01-00





# CERTIFICATE OF LABORATORY APPROVAL

No. TSP-17025-LB-001.00

Laboratory for Photometric, Thermal, Leak, Colorimetric and Electrical Tests

**LUG LIGHT FACTORY Sp. z o.o.**

ul. Gorzowska 11

65-127 Zielona Góra, Polska

Branch: **ul. Nowa 7, 66-002 Nowy Kisielin**

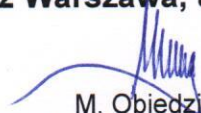
having met the criteria regarding technical requirements specified in point 5 of the standard PN-EN ISO/IEC 17025:2005 has been approved by TÜV SÜD Polska for performing of photometric, thermal, leak, colorimetric and electrical tests.

The scope of approved test methods is specified in the attachment to this certificate.

This certificate is valid from 04.04.2018 to 04.04.2021.

**TÜV SÜD Polska Sp. z o.o.**  
**00-252 Warszawa, ul. Podwale 17**



  
M. Obiedziński  
Head of Industry Service Department

Warszawa, on the 23<sup>rd</sup> of May 2018





Poland

| No. | Tested object,<br>object group       | Tested features/Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Standard               |
|-----|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1.  | Luminaires -<br>general requirements | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• MARKING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-1:2015- 04 |
| 2.  | Surface-mounted<br>luminaires        | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• MARKING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | EN 60598-2-1:1989      |

|    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
|----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 3. | Flush-mounted luminaires   | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• CLAMPS</li> </ul>                | PN-EN 60598-2-2:2012         |
| 4. | Road and street luminaires | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2-3:2016/A1:2012 |
| 5. | Portable luminaires        | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• CLAMPS</li> </ul>                                                             | PN-EN 60598-2-4:2002         |

|    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |
|----|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 6. | Floodlights                            | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2-5:2016-02         |
| 7. | Luminaires for hospital clinical zones | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2- 25:2000 +A1:2005 |
| 8. | Ground recessed luminaires             | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2-13:2017+A1:2012   |

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|-----|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 9.  | Luminaires<br>for swimming pools                   | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2-18:2002+A1:2012 |
| 10. | Luminaires<br>with limited surface<br>temperatures | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> </ul> | PN-EN 60598-2- 24:2014-02     |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 11. | Emergency luminaires                                                                                                                               | <ul style="list-style-type: none"> <li>• CLASSIFICATION OF LUMINAIRES</li> <li>• STAMPING</li> <li>• STRUCTURE</li> <li>• INTERNAL AND EXTERNAL WIRING</li> <li>• ADJUSTMENT TO EARTHING</li> <li>• PROTECTION AGAINST ELECTRIC SHOCK</li> <li>• RESISTANCE TO DUST, SOLIDS AND MOISTURE</li> <li>• RESISTANCE AND ELECTRICAL STRENGTH OF INSULATION</li> <li>• TOUCH CURRENT AND PROTECTIVE CONDUCTOR CURRENT</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• DURABILITY TEST AND THERMAL TEST</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• SCREW CLAMPS</li> <li>• SCREWLESS CLAMPS AND ELECTRICAL CONNECTORS</li> <li>• PHOTOMETRIC DATA</li> <li>• SWITCHING OPERATION</li> <li>• WORK AT A HIGH TEMPERATURE</li> </ul> | PN-EN 60598-2- 22:2015-01+AC:2016- 11 |
| 12. | Luminaires<br>- light and lighting, measurement and presentation of lamps and luminaires<br>photometric data:<br>LED lamps, modules and luminaires | <ul style="list-style-type: none"> <li>• LABORATORY REQUIREMENTS</li> <li>• PREPARATION, ASSEMBLY AND WORKING CONDITIONS</li> <li>• PHOTOMETRIC VALUE MEASUREMENT</li> <li>• COLORIMETRIC VALUE MEASUREMENT <ul style="list-style-type: none"> <li>• TEST RESULTS PRESENTATION</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PN-EN 13032-4:2015- 09                |
| 13. | Luminaires –<br>Electrical and photometric tests of LED luminaires and modules                                                                     | <ul style="list-style-type: none"> <li>• LABORATORY REQUIREMENTS</li> <li>• TESTED OBJECTS POWER PARAMETERS</li> <li>• SEASONING OF TEST SAMPLES</li> <li>• STABILIZATION OF TEST SAMPLES</li> <li>• ELECTRICAL MEASUREMENTS</li> <li>• PREPARATION, ASSEMBLY AND WORKING CONDITIONS</li> <li>• METHODS OF PHOTOMETRIC VALUE MEASUREMENT</li> <li>• METHODS OF COLORIMETRIC VALUE MEASUREMENT</li> <li>• PRESENTATION OF TEST RESULTS</li> <li>• PERFORMANCE MEASUREMENT</li> </ul>                                                                                                                                                                                                                                                                        | IES LM-79-08                          |
| 14. | Luminaires                                                                                                                                         | <ul style="list-style-type: none"> <li>• EVALUATION OF RISK TO RETINA DUE TO BLUE LIGHT EXPOSURE, RISK GROUP RG0, RG1, RG2, RG3</li> <li>• Lb ENERGY LUMINANCE MEASUREMENT</li> <li>• Eb RADIATION INTENSITY MEASUREMENT</li> <li>• Es ACTINIC DOSE MEASUREMENT</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PN-EN 62471:2010 & IEC/TR 62778:2104  |

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|-----|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 15  | Luminaires                               | <ul style="list-style-type: none"> <li>DEFINING THE LEVEL OF PROTECTION AGAINST EXTERNAL MECHANICAL IMPACT PROVIDED BY ELECTRICAL APPLIANCES HOUSINGS (CODE IK)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      | PN-EN 62262:2003<br>REPLACES PN-EN 50102:2001 |
| 16  | Luminaires                               | <ul style="list-style-type: none"> <li>DEFINING THE LEVEL OF PROTECTION PROVIDED BY ELECTRICAL APPLIANCES HOUSINGS (CODE IP), (IP2X-IP6X, IPX3-IPX7)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 | PN-EN 60529:2003+AC:2017-12                   |
| 17. | Devices for lamps – general requirements | <ul style="list-style-type: none"> <li>CLASSIFICATION</li> <li>MARKING</li> <li>CLAMPS</li> <li>PROTECTIVE EARTHING</li> <li>PROTECTION AGAINST INCIDENTAL TOUCH OF ACTIVE PARTS</li> <li>RESISTANCE TO MOISTURE AND INSULATION</li> <li>ELECTRIC STRENGTH</li> <li>FAULT CONDITIONS</li> <li>STRUCTURE</li> <li>CLEARANCES AND CREEPAGE DISTANCES</li> <li>SCREWS, POWER LEADING PARTS AND CONNECTIONS</li> <li>RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>RESISTANCE TO CORROSION</li> <li>OUTPUT VOLTAGE WITHOUT LOAD</li> </ul> | PN-EN 61347-1:2015- 09                        |
| 18. | Devices for lamps – LED drivers          | <ul style="list-style-type: none"> <li>CLASSIFICATION</li> <li>MARKING</li> <li>CLAMPS</li> <li>PROTECTIVE EARTHING</li> <li>PROTECTION AGAINST INCIDENTAL TOUCH OF ACTIVE PARTS</li> <li>RESISTANCE TO MOISTURE AND INSULATION</li> <li>ELECTRIC STRENGTH</li> <li>FAULT CONDITIONS</li> <li>STRUCTURE</li> <li>CLEARANCES AND CREEPAGE DISTANCES</li> <li>SCREWS, POWER LEADING PARTS AND CONNECTIONS</li> <li>RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>RESISTANCE TO CORROSION</li> </ul>                                      | PN-EN 61347-2- 13:2015-04                     |

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|-----|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 19. | Devices for lamps –<br>Emergency modules                                 | <ul style="list-style-type: none"> <li>• CLASSIFICATION</li> <li>• MARKING</li> <li>• CLAMPS</li> <li>• PROTECTIVE EARTHING</li> <li>• PROTECTION AGAINST INCIDENTAL TOUCH OF ACTIVE PARTS</li> <li>• RESISTANCE TO MOISTURE AND INSULATION</li> <li>• ELECTRIC STRENGTH</li> <li>• FAULT CONDITIONS</li> <li>• STARTING CONDITIONS</li> <li>• LAMP CURRENT</li> <li>• INPUT CURRENT</li> <li>• EBLF FUNCTIONAL SAFETY</li> <li>• SWITCHING FUNCTION</li> <li>• RELOADING DEVICE</li> <li>• PROTECTION AGAINST EXCESSIVE DISCHARGING</li> <li>• INDICATOR</li> <li>• REMOTE CONTROL, SLEEP MODE, LOCK MODE</li> <li>• REGULAR THERMAL TESTS AND DURABILITY TESTS</li> <li>• STRUCTURE</li> <li>• POLARITY REVERSAL</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• SCREWS, POWER LEADING PARTS AND CONNECTIONS</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• RESISTANCE TO CORROSION</li> <li>• ABNORMAL LAMP CONDITIONS</li> <li>• PROTECTION OF ASSOCIATED SUBASSEMBLIES</li> </ul> | PN-EN 61347-2-7:2012           |
| 20. | LED modules for<br>general lighting<br>purposes – safety<br>requirements | <ul style="list-style-type: none"> <li>• CLASSIFICATION</li> <li>• MARKING</li> <li>• CLAMPS</li> <li>• PROTECTIVE EARTHING</li> <li>• PROTECTION AGAINST INCIDENTAL TOUCH OF ACTIVE PARTS</li> <li>• RESISTANCE TO MOISTURE AND INSULATION</li> <li>• ELECTRIC STRENGTH</li> <li>• FAULT CONDITIONS</li> <li>• STRUCTURE</li> <li>• CLEARANCES AND CREEPAGE DISTANCES</li> <li>• SCREWS, POWER LEADING PARTS AND CONNECTIONS</li> <li>• RESISTANCE TO HEAT, FIRE AND CREEPING CURRENT</li> <li>• RESISTANCE TO CORROSION</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PN-EN<br>62031:2010+A1:2013-06 |

/round stamp /  
TUV SUD Polska Sp. z o.o.  
TUV SUD  
Industrie Service

/signature illegible/  
P. Kukula  
Head of Industrie Service Department