

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                             |                                                                                     |                                          |                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>CN24DL6O 001</b>                                                         | <b>Auftrags-Nr.:</b><br>Order no.:                                                  | <b>170394406</b>                         | <b>Seite 1 von 16</b><br>Page 1 of 16 |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                         | <b>Auftragsdatum:</b><br>Order date:                                                | 2024-02-02                               |                                       |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Bemko Sp. z o.o.</b><br>ul. Bocznicowa 13, 05-850 Jawczyce, Poland       |                                                                                     |                                          |                                       |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                 | LED Street Light                                                            |                                                                                     |                                          |                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                          | AVN series, details see model list                                          |                                                                                     |                                          |                                       |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                            | Type examination                                                            |                                                                                     |                                          |                                       |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSI C136.31:2010,<br>and provide services as agreed                        |                                                                                     |                                          |                                       |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                | 2024-03-11                                                                  |  |                                          |                                       |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                           | A003679840                                                                  |                                                                                     |                                          |                                       |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                              | 2024-05-09 - 2024-05-14                                                     |                                                                                     |                                          |                                       |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                         | TÜV Rheinland<br>(Guangdong) Ltd.                                           |                                                                                     |                                          |                                       |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                      | TÜV Rheinland<br>(Guangdong) Ltd.                                           |                                                                                     |                                          |                                       |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass                                                                        |                                                                                     |                                          |                                       |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Dere Zhang</i>                                                           |                                                                                     | <b>genehmigt von:</b><br>authorized by:  | <i>Ivy Lu.</i>                        |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2024-11-22                                                                  |                                                                                     | <b>Ausstellungsdatum:</b><br>Issue date: | 2024-11-22                            |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dere Zhang / PE                                                             |                                                                                     | <b>Stellung / Position:</b>              | Ivy Lu / Authorizer                   |
| <b>Sonstiges /</b> --<br>Other:                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                             |                                                                                     |                                          |                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                      | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged |                                                                                     |                                          |                                       |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P(ass) = entspricht o.g. Prüfgrundlage(n)                                   | F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                                     | N/A = nicht anwendbar                    | N/T = nicht getestet                  |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                            | P(ass) = passed a.m. test specification(s)                                  | F(ail) = failed a.m. test specification(s)                                          | N/A = not applicable                     | N/T = not tested                      |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |                                                                             |                                                                                     |                                          |                                       |

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**Anmerkungen**  
*Remarks*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                         |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p>                                                                                                                                                                                                             |
| 5 | <p>Factory / Fabrik:</p> <p>Bemko Sp. z o.o.</p> <p>Address: ul. Bocznicowa 13, 05-850 Jawczyce, Poland</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**Produktbeschreibung**  
Product description

|   |                                                           |                                                                                                                                                                                                                                                                |
|---|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Produktdetails</b><br>Product details                  | The products covered by this report are LED Street Light, for outdoor use. All models have same construction, except LED quantity, housing dimension and LED driver. Model AVN-280B0-7611-9006-T2M was chosen to conduct test basing on agreement with client. |
| 2 | <b>Maße / Gewicht</b><br>Dimensions / Weight              | --                                                                                                                                                                                                                                                             |
| 3 | <b>Bedienelemente</b><br>Operating elements               | --                                                                                                                                                                                                                                                             |
| 4 | <b>Ausstattung / Zubehör</b><br>Equipment / Accessories   | --                                                                                                                                                                                                                                                             |
| 5 | <b>Verwendete Materialien</b><br>Used materials           | --                                                                                                                                                                                                                                                             |
| 6 | <b>Sonstiges</b><br>Other                                 | Test sample(s), as well sample information, description, product details and intended usage was provided by customer.                                                                                                                                          |
| 7 | <b>Prüfmusterbereitstellung:</b><br>Test sample obtaining | <input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group<br><input type="checkbox"/> others:                                                                                                           |

Product details - model list

| Model name*             | Rated input        | Rated power (W) | ta (°C) | LED type | LED quantity (pcs) | Used LED driver | IP code | CCT (K)   |
|-------------------------|--------------------|-----------------|---------|----------|--------------------|-----------------|---------|-----------|
|                         |                    |                 |         |          | 10in1 lens         |                 |         |           |
| Series 1                |                    |                 |         |          |                    |                 |         |           |
| AVN-030B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 30              | 50      | 5050     | 40                 | SS-30GA-E62B    | IP66    | 2700-6500 |
| AVN-040B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 40              | 50      | 5050     | 40                 | SS-50GA-E62B    | IP66    | 2700-6500 |
| AVN-050B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 50              | 50      | 5050     | 40                 | SS-50GA-E62B    | IP66    | 2700-6500 |
| AVN-060B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 60              | 50      | 5050     | 60                 | SS-75GA-E62B    | IP66    | 2700-6500 |
| AVN-080B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 80              | 50      | 5050     | 60                 | SS-75GA-E62B    | IP66    | 2700-6500 |
| AVN-100B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 100             | 50      | 5050     | 90                 | SS-100GA-E62B   | IP66    | 2700-6500 |
| AVN-120B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 120             | 50      | 5050     | 90                 | SS-150GA-E62B   | IP66    | 2700-6500 |
| AVN-150B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 150             | 50      | 5050     | 120                | SS-150GA-E62B   | IP66    | 2700-6500 |
| AVN-180B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 180             | 50      | 5050     | 120                | SS-200GA-E62B   | IP66    | 2700-6500 |
| AVN-200B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 200             | 50      | 5050     | 200                | SS-200GA-E62B   | IP66    | 2700-6500 |
| AVN-220B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 220             | 50      | 5050     | 200                | SS-250GA-E62B   | IP66    | 2700-6500 |
| AVN-240B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 240             | 50      | 5050     | 200                | SS-250GA-E62B   | IP66    | 2700-6500 |
| AVN-250B0-7xS1-9006-yyy | 180-277V~, 50/60Hz | 250             | 50      | 5050     | 200                | SS-250GA-E62B   | IP66    | 2700-6500 |

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**Produktbeschreibung**  
*Product description*

|                         |                    |     |    |      |     |                |      |           |
|-------------------------|--------------------|-----|----|------|-----|----------------|------|-----------|
| Series 2                |                    |     |    |      |     |                |      |           |
| AVN-030B0-7xI1-9006-yyy | 100-277V~, 50/60Hz | 30  | 50 | 5050 | 40  | EUM-030S105DG  | IP66 | 2700-6500 |
| AVN-040B0-7xI1-9006-yyy | 100-277V~, 50/60Hz | 40  | 50 | 5050 | 40  | EUM-050S150DG  | IP66 | 2700-6500 |
| AVN-050B0-7xI1-9006-yyy | 100-277V~, 50/60Hz | 50  | 50 | 5050 | 40  | EUM-050S150DG  | IP66 | 2700-6500 |
| AVN-060B0-7xI1-9006-yyy | 100-240V~, 50/60Hz | 60  | 50 | 5050 | 60  | EUM-075S210DG  | IP66 | 2700-6500 |
| AVN-080B0-7xI1-9006-yyy | 100-240V~, 50/60Hz | 80  | 50 | 5050 | 60  | EUM-075S210DG  | IP66 | 2700-6500 |
| AVN-100B0-7xI1-9006-yyy | 100-240V~, 50/60Hz | 100 | 50 | 5050 | 90  | EUM-100S280DG  | IP66 | 2700-6500 |
| AVN-120B0-7xI1-9006-yyy | 100-240V~, 50/60Hz | 120 | 50 | 5050 | 90  | EUM-150S420DG  | IP66 | 2700-6500 |
| AVN-150B0-7xI1-9006-yyy | 200-240V~, 50/60Hz | 150 | 50 | 5050 | 120 | EUM-150S420DG  | IP66 | 2700-6500 |
| AVN-180B0-7xI1-9006-yyy | 200-240V~, 50/60Hz | 180 | 50 | 5050 | 120 | EUM-200S560DG  | IP66 | 2700-6500 |
| AVN-200B0-7xI1-9006-yyy | 200-240V~, 50/60Hz | 200 | 50 | 5050 | 200 | EUM-200S560DG  | IP66 | 2700-6500 |
| AVN-220B0-7xI1-9006-yyy | 200-240V~, 50/60Hz | 220 | 50 | 5050 | 200 | EUM-240S670DG  | IP66 | 2700-6500 |
| AVN-240B0-7xI1-9006-yyy | 200-240V~, 50/60Hz | 240 | 50 | 5050 | 200 | EUM-240S670DG  | IP66 | 2700-6500 |
| AVN-280B0-7xI1-9006-yyy | 100-240V~, 50/60Hz | 280 | 50 | 5050 | 200 | EUM-320S760DG  | IP66 | 2700-6500 |
| Series 3                |                    |     |    |      |     |                |      |           |
| AVN-025D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 25  | 50 | 5050 | 40  | EBS-025S070BT2 | IP66 | 2700-6500 |
| AVN-040D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 40  | 50 | 5050 | 40  | EBS-040S105BT2 | IP66 | 2700-6500 |
| AVN-060D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 60  | 50 | 5050 | 60  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-080D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 80  | 50 | 5050 | 60  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-100D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 100 | 50 | 5050 | 90  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-120D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 120 | 50 | 5050 | 90  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-150D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 150 | 50 | 5050 | 120 | EBS-165S150BT2 | IP66 | 2700-6500 |
| AVN-165D1-7xI1-9006-yyy | 200-240V~, 50/60Hz | 165 | 50 | 5050 | 120 | EBS-165S150BT2 | IP66 | 2700-6500 |
| Series 4                |                    |     |    |      |     |                |      |           |
| AVN-030B0-7xS2-9006-yyy | 180-277V~, 50/60Hz | 30  | 50 | 5050 | 40  | SS-30GA-E62BE  | IP66 | 2700-6500 |
| AVN-040B0-7xS2-9006-yyy | 180-277V~, 50/60Hz | 40  | 50 | 5050 | 40  | SS-50GA-E62BE  | IP66 | 2700-6500 |
| AVN-050B0-7xS2-9006-yyy | 180-277V~, 50/60Hz | 50  | 50 | 5050 | 40  | SS-50GA-E62BE  | IP66 | 2700-6500 |
| AVN-060B0-7xS2-9006-yyy | 180-277V~, 50/60Hz | 60  | 50 | 5050 | 60  | SS-75GA-E62BE  | IP66 | 2700-6500 |

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*Product description*

|                          |                    |                 |         |          |                    |                 |         |           |
|--------------------------|--------------------|-----------------|---------|----------|--------------------|-----------------|---------|-----------|
| AVN-080B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 80              | 50      | 5050     | 60                 | SS-75GA-E62BE   | IP66    | 2700-6500 |
| AVN-100B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 100             | 50      | 5050     | 90                 | SS-100GA-E62BE  | IP66    | 2700-6500 |
| AVN-120B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 120             | 50      | 5050     | 90                 | SS-150GA-E62BE  | IP66    | 2700-6500 |
| AVN-150B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 150             | 50      | 5050     | 120                | SS-150GA-E62BE  | IP66    | 2700-6500 |
| AVN-180B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 180             | 50      | 5050     | 120                | SS-200GA-E62BE  | IP66    | 2700-6500 |
| AVN-200B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 200             | 50      | 5050     | 200                | SS-200GA-E62BE  | IP66    | 2700-6500 |
| AVN-220B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 220             | 50      | 5050     | 200                | SS-250GA-E62BE  | IP66    | 2700-6500 |
| AVN-240B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 240             | 50      | 5050     | 200                | SS-250GA-E62BE  | IP66    | 2700-6500 |
| AVN-250B0-7xS2-9006-yyy  | 180-277V~, 50/60Hz | 250             | 50      | 5050     | 200                | SS-250GA-E62BE  | IP66    | 2700-6500 |
| Series 5                 |                    |                 |         |          |                    |                 |         |           |
| AVN-025D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 25              | 50      | 5050     | 40                 | EBS-025S070BT2  | IP66    | 2700-6500 |
| AVN-040D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 40              | 50      | 5050     | 40                 | EBS-040S105BT2  | IP66    | 2700-6500 |
| AVN-060D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 60              | 50      | 5050     | 60                 | EBS-080S150BT2  | IP66    | 2700-6500 |
| AVN-080D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 80              | 50      | 5050     | 60                 | EBS-080S150BT2  | IP66    | 2700-6500 |
| AVN-100D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 100             | 50      | 5050     | 90                 | EBS-120S105BT2  | IP66    | 2700-6500 |
| AVN-120D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 120             | 50      | 5050     | 90                 | EBS-120S105BT2  | IP66    | 2700-6500 |
| AVN-150D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 150             | 50      | 5050     | 120                | EBS-165S150BT2  | IP66    | 2700-6500 |
| AVN-165D1-7xI2-9006-yyy  | 200-240V~, 50/60Hz | 165             | 50      | 5050     | 120                | EBS-165S150BT2  | IP66    | 2700-6500 |
| Model name*              | Rated input        | Rated power (W) | ta (°C) | LED type | LED quantity (pcs) | Used LED driver | IK code | CCT (K)   |
|                          |                    |                 |         |          | 8in1 lens          |                 |         |           |
| Series 6                 |                    |                 |         |          |                    |                 |         |           |
| AVN-030B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 30              | 50      | 5050     | 32                 | SS-30GA-E62B    | IP66    | 2700-6500 |
| AVN-040B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 40              | 50      | 5050     | 32                 | SS-50GA-E62B    | IP66    | 2700-6500 |
| AVN-050B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 50              | 50      | 5050     | 32                 | SS-50GA-E62B    | IP66    | 2700-6500 |
| AVN-060B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 60              | 50      | 5050     | 48                 | SS-75GA-E62B    | IP66    | 2700-6500 |
| AVN-080B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 80              | 50      | 5050     | 48                 | SS-75GA-E62B    | IP66    | 2700-6500 |
| AVN-100B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 100             | 50      | 5050     | 72                 | SS-100GA-E62B   | IP66    | 2700-6500 |
| AVN-120B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 120             | 50      | 5050     | 72                 | SS-150GA-E62B   | IP66    | 2700-6500 |

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|--------------------------|--------------------|-----|----|------|-----|----------------|------|-----------|
| AVN-150B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 150 | 50 | 5050 | 96  | SS-150GA-E62B  | IP66 | 2700-6500 |
| AVN-180B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 180 | 50 | 5050 | 96  | SS-200GA-E62B  | IP66 | 2700-6500 |
| AVN-200B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 200 | 50 | 5050 | 160 | SS-200GA-E62B  | IP66 | 2700-6500 |
| AVN-220B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 220 | 50 | 5050 | 160 | SS-250GA-E62B  | IP66 | 2700-6500 |
| AVN-240B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 240 | 50 | 5050 | 160 | SS-250GA-E62B  | IP66 | 2700-6500 |
| AVN-250B0-7xS1-9006-yyy8 | 180-277V~, 50/60Hz | 250 | 50 | 5050 | 160 | SS-250GA-E62B  | IP66 | 2700-6500 |
| Series 7                 |                    |     |    |      |     |                |      |           |
| AVN-030B0-7xI1-9006-yyy8 | 100-277V~, 50/60Hz | 30  | 50 | 5050 | 32  | EUM-030S105DG  | IP66 | 2700-6500 |
| AVN-040B0-7xI1-9006-yyy8 | 100-277V~, 50/60Hz | 40  | 50 | 5050 | 32  | EUM-050S150DG  | IP66 | 2700-6500 |
| AVN-050B0-7xI1-9006-yyy8 | 100-277V~, 50/60Hz | 50  | 50 | 5050 | 32  | EUM-050S150DG  | IP66 | 2700-6500 |
| AVN-060B0-7xI1-9006-yyy8 | 100-240V~, 50/60Hz | 60  | 50 | 5050 | 48  | EUM-075S210DG  | IP66 | 2700-6500 |
| AVN-080B0-7xI1-9006-yyy8 | 100-240V~, 50/60Hz | 80  | 50 | 5050 | 48  | EUM-075S210DG  | IP66 | 2700-6500 |
| AVN-100B0-7xI1-9006-yyy8 | 100-240V~, 50/60Hz | 100 | 50 | 5050 | 72  | EUM-100S280DG  | IP66 | 2700-6500 |
| AVN-120B0-7xI1-9006-yyy8 | 100-240V~, 50/60Hz | 120 | 50 | 5050 | 72  | EUM-150S420DG  | IP66 | 2700-6500 |
| AVN-150B0-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 150 | 50 | 5050 | 96  | EUM-150S420DG  | IP66 | 2700-6500 |
| AVN-180B0-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 180 | 50 | 5050 | 96  | EUM-200S560DG  | IP66 | 2700-6500 |
| AVN-200B0-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 200 | 50 | 5050 | 160 | EUM-200S560DG  | IP66 | 2700-6500 |
| AVN-220B0-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 220 | 50 | 5050 | 160 | EUM-240S670DG  | IP66 | 2700-6500 |
| AVN-240B0-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 240 | 50 | 5050 | 160 | EUM-240S670DG  | IP66 | 2700-6500 |
| AVN-280B0-7xI1-9006-yyy8 | 100-240V~, 50/60Hz | 280 | 50 | 5050 | 160 | EUM-320S760DG  | IP66 | 2700-6500 |
| Series 8                 |                    |     |    |      |     |                |      |           |
| AVN-025D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 25  | 50 | 5050 | 32  | EBS-025S070BT2 | IP66 | 2700-6500 |
| AVN-040D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 40  | 50 | 5050 | 32  | EBS-040S105BT2 | IP66 | 2700-6500 |
| AVN-060D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 60  | 50 | 5050 | 48  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-080D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 80  | 50 | 5050 | 48  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-100D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 100 | 50 | 5050 | 72  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-120D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 120 | 50 | 5050 | 72  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-150D1-7xI1-9006-yyy8 | 200-240V~, 50/60Hz | 150 | 50 | 5050 | 96  | EBS-165S150BT2 | IP66 | 2700-6500 |



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**Produktbeschreibung**  
*Product description*

|                              |                       |     |    |      |     |                |      |           |
|------------------------------|-----------------------|-----|----|------|-----|----------------|------|-----------|
| AVN-165D1-7xI1-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 165 | 50 | 5050 | 96  | EBS-165S150BT2 | IP66 | 2700-6500 |
| Series 9                     |                       |     |    |      |     |                |      |           |
| AVN-030B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 30  | 50 | 5050 | 32  | SS-30GA-E62BE  | IP66 | 2700-6500 |
| AVN-040B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 40  | 50 | 5050 | 32  | SS-50GA-E62BE  | IP66 | 2700-6500 |
| AVN-050B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 50  | 50 | 5050 | 32  | SS-50GA-E62BE  | IP66 | 2700-6500 |
| AVN-060B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 60  | 50 | 5050 | 48  | SS-75GA-E62BE  | IP66 | 2700-6500 |
| AVN-080B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 80  | 50 | 5050 | 48  | SS-75GA-E62BE  | IP66 | 2700-6500 |
| AVN-100B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 100 | 50 | 5050 | 72  | SS-100GA-E62BE | IP66 | 2700-6500 |
| AVN-120B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 120 | 50 | 5050 | 72  | SS-150GA-E62BE | IP66 | 2700-6500 |
| AVN-150B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 150 | 50 | 5050 | 96  | SS-150GA-E62BE | IP66 | 2700-6500 |
| AVN-180B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 180 | 50 | 5050 | 96  | SS-200GA-E62BE | IP66 | 2700-6500 |
| AVN-200B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 200 | 50 | 5050 | 160 | SS-200GA-E62BE | IP66 | 2700-6500 |
| AVN-220B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 220 | 50 | 5050 | 160 | SS-250GA-E62BE | IP66 | 2700-6500 |
| AVN-240B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 240 | 50 | 5050 | 160 | SS-250GA-E62BE | IP66 | 2700-6500 |
| AVN-250B0-7xS2-9006-<br>yyy8 | 180-277V~,<br>50/60Hz | 250 | 50 | 5050 | 160 | SS-250GA-E62BE | IP66 | 2700-6500 |
| Series 10                    |                       |     |    |      |     |                |      |           |
| AVN-025D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 25  | 50 | 5050 | 32  | EBS-025S070BT2 | IP66 | 2700-6500 |
| AVN-040D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 40  | 50 | 5050 | 32  | EBS-040S105BT2 | IP66 | 2700-6500 |
| AVN-060D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 60  | 50 | 5050 | 48  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-080D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 80  | 50 | 5050 | 48  | EBS-080S150BT2 | IP66 | 2700-6500 |
| AVN-100D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 100 | 50 | 5050 | 72  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-120D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 120 | 50 | 5050 | 72  | EBS-120S105BT2 | IP66 | 2700-6500 |
| AVN-150D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 150 | 50 | 5050 | 96  | EBS-165S150BT2 | IP66 | 2700-6500 |
| AVN-165D1-7xI2-9006-<br>yyy8 | 200-240V~,<br>50/60Hz | 165 | 50 | 5050 | 96  | EBS-165S150BT2 | IP66 | 2700-6500 |

\*Note:

- a) 'x' denotes CCT. For example, x=2 means 2700K, x=3 means 3000K, x=4 means 4000K, x=5 means 5000K, x=6 means 6500K.  
b) 'yyy' denotes lens type, it can be T2M, T2S, T3M, T3S.

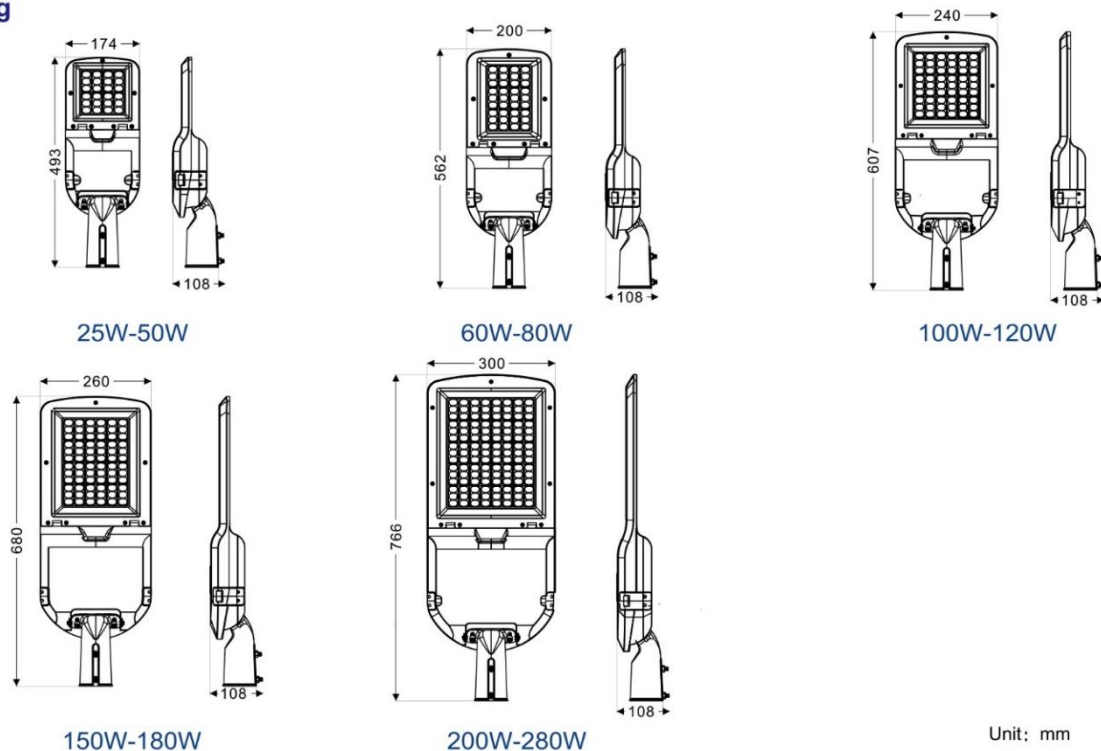
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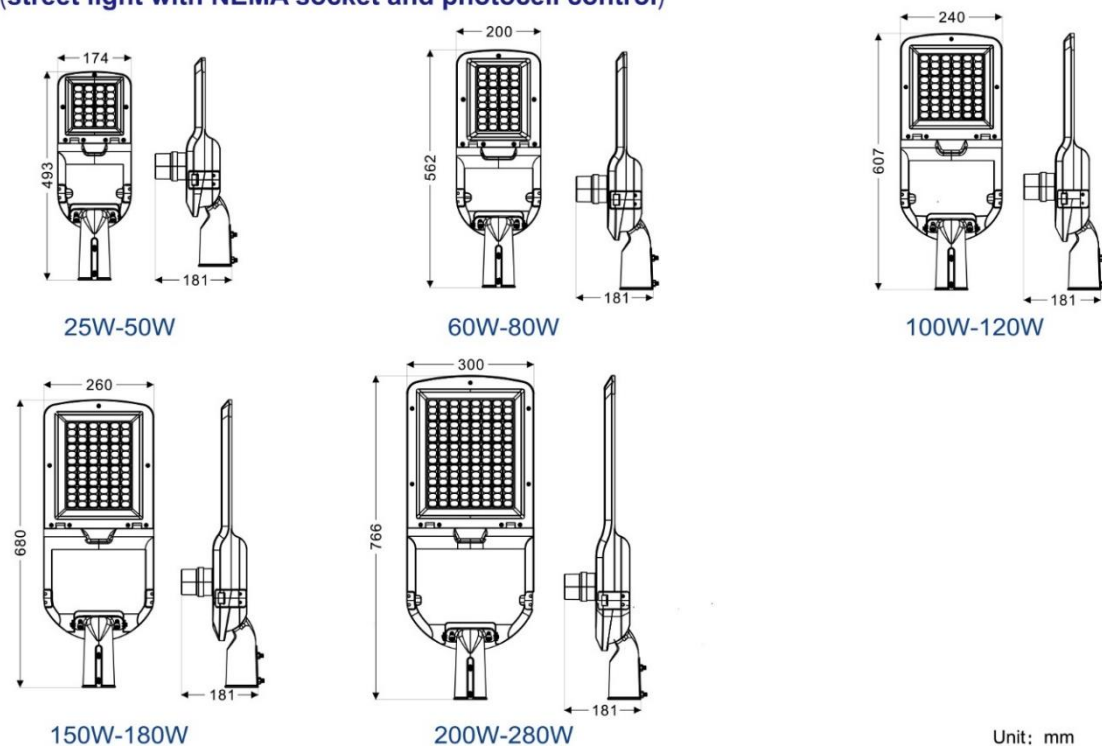
| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse – Bemerkungen/<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|--------------------------------------------------------------|--------------------|
|------------------|-----------------------------------------------------|--------------------------------------------------------------|--------------------|

Dimensions (mm):

**Drawing**



**Drawing(street light with NEMA socket and photocell control)**



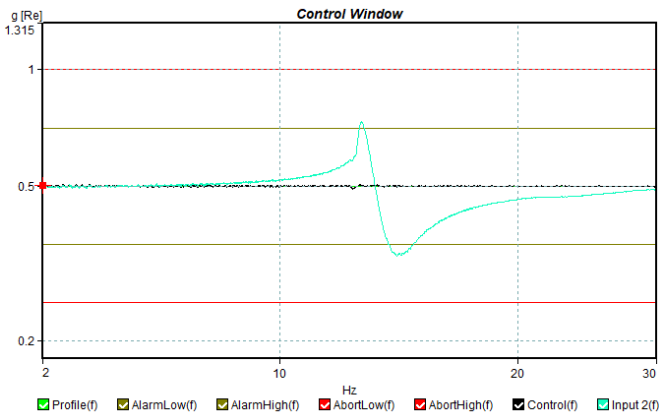
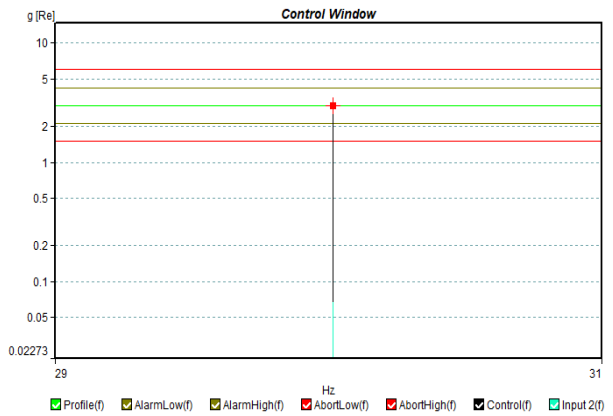


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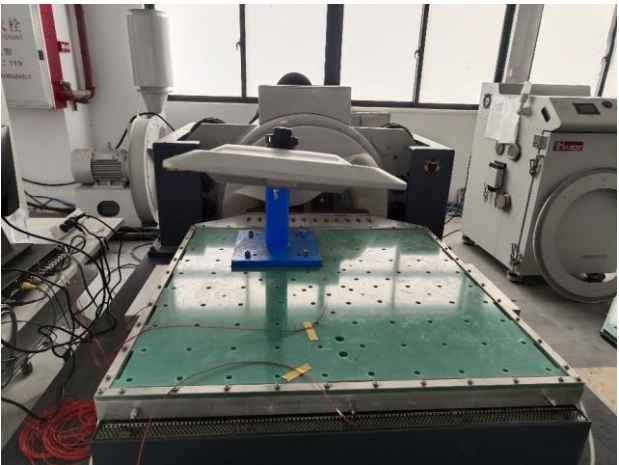
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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|

|                |                                                                                                                                                                                                                                                                                                                                |                                                                                         |   |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---|
| Vibration test | <p>Resonant frequency detecting:<br/>Frequency: 2-30 Hz<br/>Accelerated force: 0.5 G<br/>Sweep rate: 0.50 oct/min<br/>Orientation: X, Y, Z axis</p> <p>Constant frequency vibration:<br/>Accelerated force: 3.0 G<br/>Orientation: X, Y, Z axis<br/>Frequency: 30Hz or Resonant frequency<br/>Duration: 100000 cycles/axis</p> | After test, no visible change/failure in appearance and sample can be lighted normally. | P |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---|

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| X axis: Resonant frequency detecting                                                | X axis: Constant frequency vibration (30Hz)                                          |
|  |  |

|                     |    |
|---------------------|----|
| X axis: During test | -- |
|---------------------|----|

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
|  | -- |
|-------------------------------------------------------------------------------------|----|

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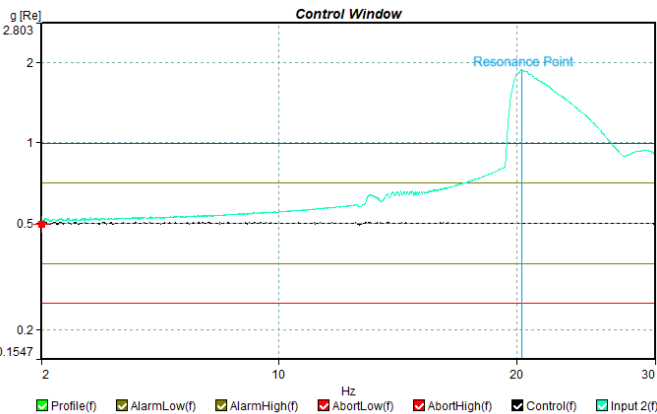
**Absatz**  
*Clause*

**Anforderungen - Prüfungen /**  
*Requirements - Tests*

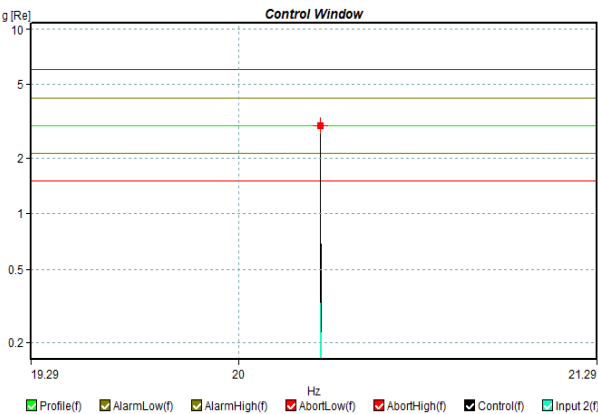
**Messergebnisse –**  
**Bemerkungen /**  
*Measuring results - Remarks*

**Ergebnis**  
*Result*

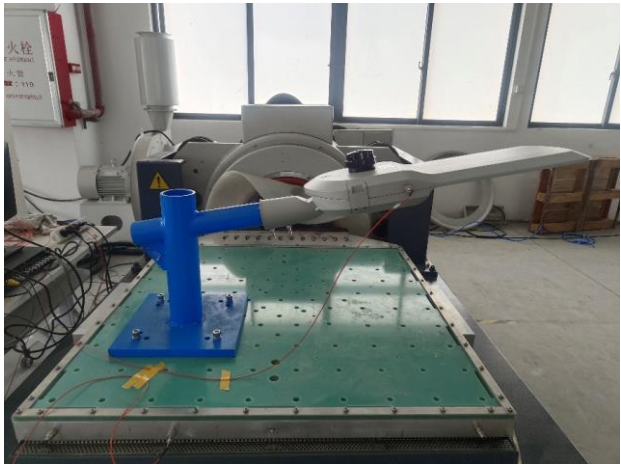
Y axis: Resonant frequency detecting



Y axis: Constant frequency vibration (20.29Hz)



Y axis: During test



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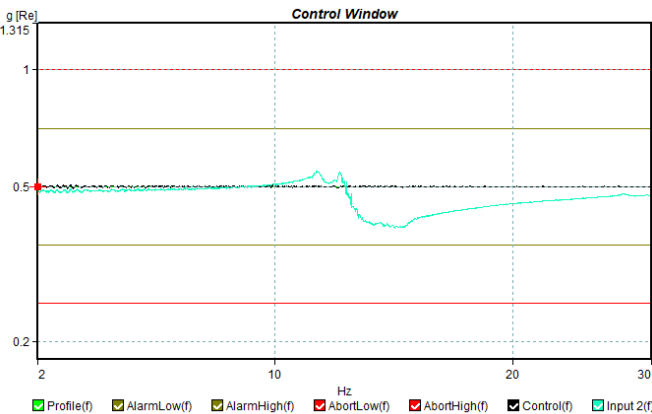
Absatz  
 Clause

Anforderungen - Prüfungen /  
 Requirements - Tests

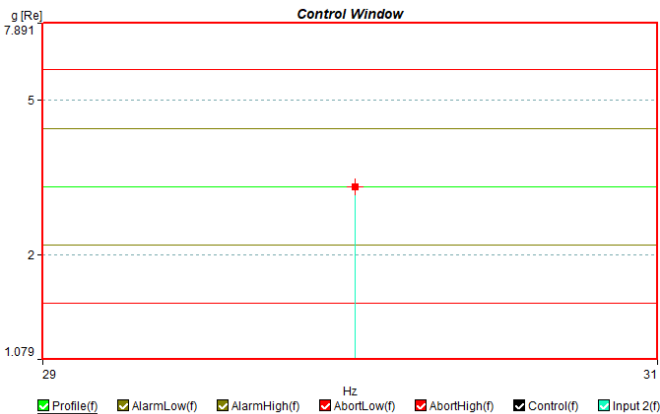
Messergebnisse –  
 Bemerkungen /  
 Measuring results - Remarks

Ergebnis  
 Result

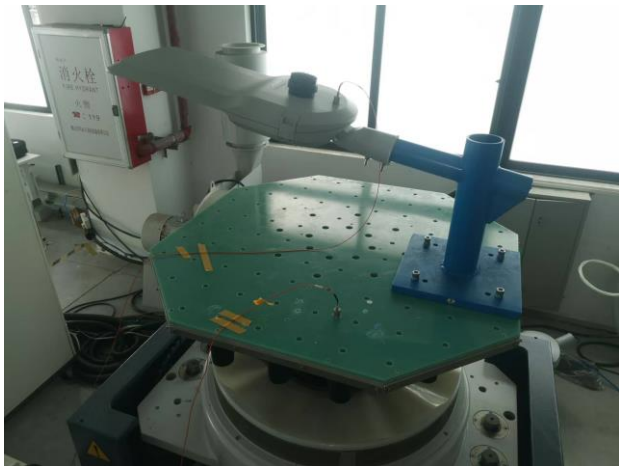
Z axis: Resonant frequency detecting



Z axis: Constant frequency vibration (30Hz)



Z axis: During test



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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
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## Appendix: Photo Documentation



Picture 1.: Overall view for 25W - 50W



Picture 2.:



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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
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Picture 3.: Overall view for 60W - 80W



Picture 4.:



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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
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Picture 5.: Overall view for 100W - 120W



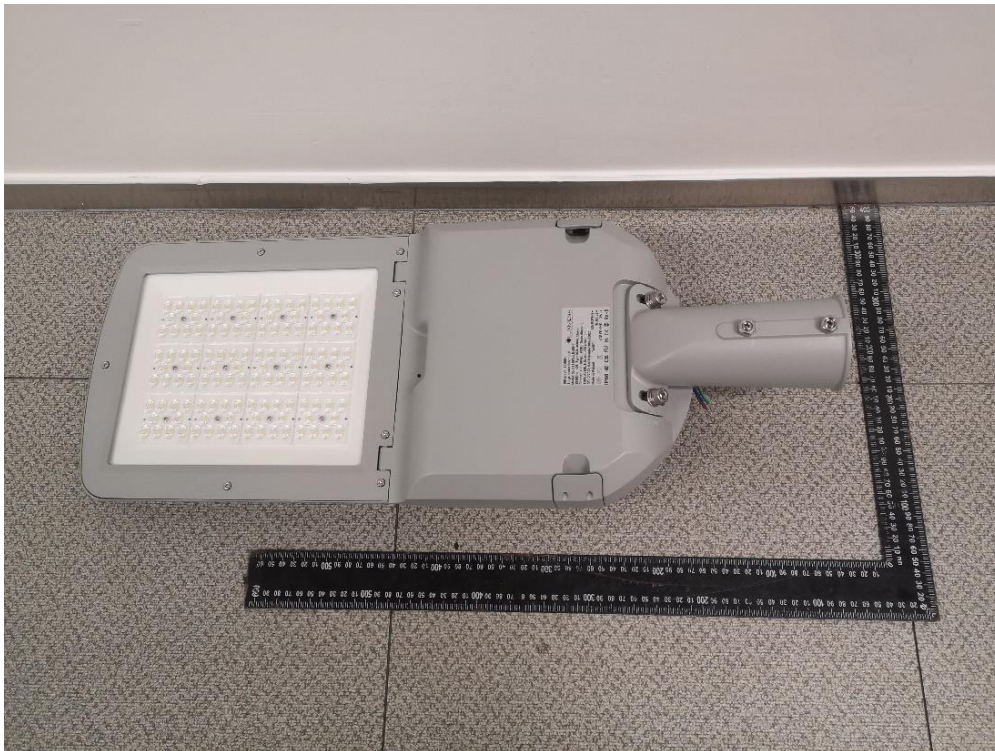
Picture 6.:



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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|



Picture 7.: Overall view for 150W - 180W



Picture 8.:



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| Absatz<br>Clause | Anforderungen - Prüfungen /<br>Requirements - Tests | Messergebnisse –<br>Bemerkungen /<br>Measuring results - Remarks | Ergebnis<br>Result |
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|
|------------------|-----------------------------------------------------|------------------------------------------------------------------|--------------------|



Picture 9.: Overall view for 200W - 280W



Picture 10.:

=END OF TEST REPORT=