DESIGN INSTRUCTIONS – V2

The instructions below relate to the photometry provided on the AURORA website in respect of the new AURORA catalogue, which encompasses the product range of the new catalogue launched in September 2019.

'ldt' PHOTOMETRIC DATABASE

1) The new updated Photometric Database is now completed and contains some 1250 'ldt' files held in folders which are given by Page Number and Luminaire range taken directly from the 2019 Aurora catalogue covering nearly all the listed products.

2) The database contains the standard mains voltage luminaires across the range and where fittings are made available with different driver options, separate files are provided for each control gear option.

3) Where applicable, the 3 Hour Maintained Emergency versions of the standard luminaires are given with full mains performance so that they can be used as part of a mains installation. For emergency calculations, duplicate the design within Relux, turn off the mains luminaires and convert the Maintained Emergency fitting from 'cannot be used for emergency lighting' to 'for emergency and normal artificial lighting' within Relux programme and amend the Luminous Flux Factor (emergency rated) to 10% that of the mains lumens. All Aurora products, with the exception of the 'HULK' & 'ARIAH-PRO' fitting ranges, (where ELDL information is stated within the individual files,) provide where a Maintained Emergency version is on offer to run at a minimum 10% value in emergency mode of operation.

4) Also included in the database are both recessed and surface versions of all the LED Flat Panels and the Troffer Panel. These are offered in standard mains voltage with the different driver options and also in emergency versions (where applicable).

5A) Photometric files are offered for the different ranges of LED Strip, both in 12 Volt and 24 Volt, for single colour options in the different white light options and where appropriate also in blue. RGB versions are not included as the variance of colour options with differing outputs makes it impossible to clarify specific applications. The LED Strip 'ldt' files are given in both 1000mm and 100mm lengths, allowing the user to create accurate solutions of differing lengths.

5B) Photometric files are also offered for EN-ST224 & EN-ST324 LED Strip ranges installed within a sample of the LED Aluminium Channel options with both Clear and Frosted Diffusers. The LED Strip 'ldt' files are given in both 1000mm and 100mm lengths, allowing the user to create accurate solutions of differing lengths.

6) To provide suitability with the photometric testing, many of the external in-ground products have been placed facing outwards in the goniophotometer towards the camera lens and as such the resulting Polar Curve is facing downwards. For use in lighting projects, these fittings will be required to be turned through 180 degrees so as to face upwards within applications.

7) With regard to the power consumption of emergency lighting luminaires, these are provided with the total mains version operating Watts together with the Parasitic Power consumed by the battery charging circuits as shown in the 'Equipment' section of the 'ldt' file under 'Wattage including ballast'. Please note that the Parasitic Power consumed by the luminaire is constant even when the luminaire is switched off and based upon 8760 hours per annum.

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