



HORNSEY TOWN HALL HERITAGE LIGHTING TECHNICAL SUBMISSION

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*The information in this submittal is correct at the time of printing.
LPA reserves the right to make technical and design changes at any time and without notice.*

INFORMATION PROVIDED

The following documentation and information have been included within our submission.

DATASHEETS

The first stage of our works was to define the technical specifications for each of the luminaire types required, in order that the refurbished luminaires would operate optimally in terms of meeting the required illumination targets in a safe and energy efficient manner, within thermal constraints to preserve LED and driver life and providing a comfortable visual environment through the limitation of luminance on diffusers etc.

Datasheets for the interior heritage luminaires on the project are contained within the PDF document **“Ardmore_Hornsey Town Hall_OPUK1694_LPA Datasheets_REV1A_04.11.2021”**. These provide the various parameters of the luminaires in terms of light output, power consumption, correlated colour temperature and colour rendering index. The provided dimensions are given in addition to the type of driver to be employed.

TABULATED SUMMARY TABLE

The Excel spreadsheet titled **“Tabulated Summary data_03.11.2021_Current”** details the CIBSE recommended lighting level within each of the various spaces considered. In some areas, such as the artists’ dressing rooms, we have made a recommendation based upon our considerable experience of lighting such areas.

Columns H-K define the existing luminaires within the given space and using the proposed defined lumen output, provides the resulting average illuminance within the area.

Columns M-T, then move onto our recommendations for the area. This may be that the existing configuration is adequate or alternatively, in order to meet the target illumination level, additional refurbished luminaires of the same type are required.

LIGHTING CALCULATION REPORTS

Two lighting DIALux reports are provided.

“Ardmore_Hornsey Town Hall_OPUK1694_Lux report_REV1A_27.10.2021” details the average illumination levels achieved in each space using the same number and location of the existing fittings. These levels are detailed in Column “I” on the spreadsheet.

“Ardmore_Hornsey Town Hall_OPUK1694_Lux report_REV1B_27.10.2021” details the average illumination levels achieved in each space with our proposed configuration of refurbished luminaires. The resulting average illumination levels are noted in Column “P” of the spreadsheet.

Where RGBW luminaires are proposed, the illumination levels are achieved with full output of the white element only.

DRAWINGS

In addition to the Two folders housing drawings, in both PDF and dwg formats are provided, showing lux plots within the relevant areas.

Folder **Ardmore-Hornsey Town Hall_OPUK1694_Design_REV1A_01.11.2021** details the resulting illumination levels employing the refurbished luminaire type in the same quantity and position.

Folder **Ardmore-Hornsey Town Hall_OPUK1694_Design_REV1B_01.11.2021** details the resulting illumination levels achieved by our recommended luminaire configurations.