Energy Savings Scheme – Commercial Lighting Formula Interactions with the Building Code of Australia (BCA)
Step 1 – Determining the Baseline Equation

Notes

Site

A lighting upgrade occurs at a site. For the purposes of a lighting upgrade, a site may be an entire building, or part of a building (eg a single floor of an office building or single shop in a complex).

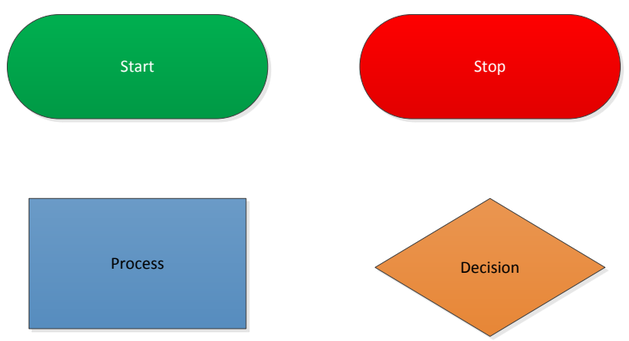
Space type

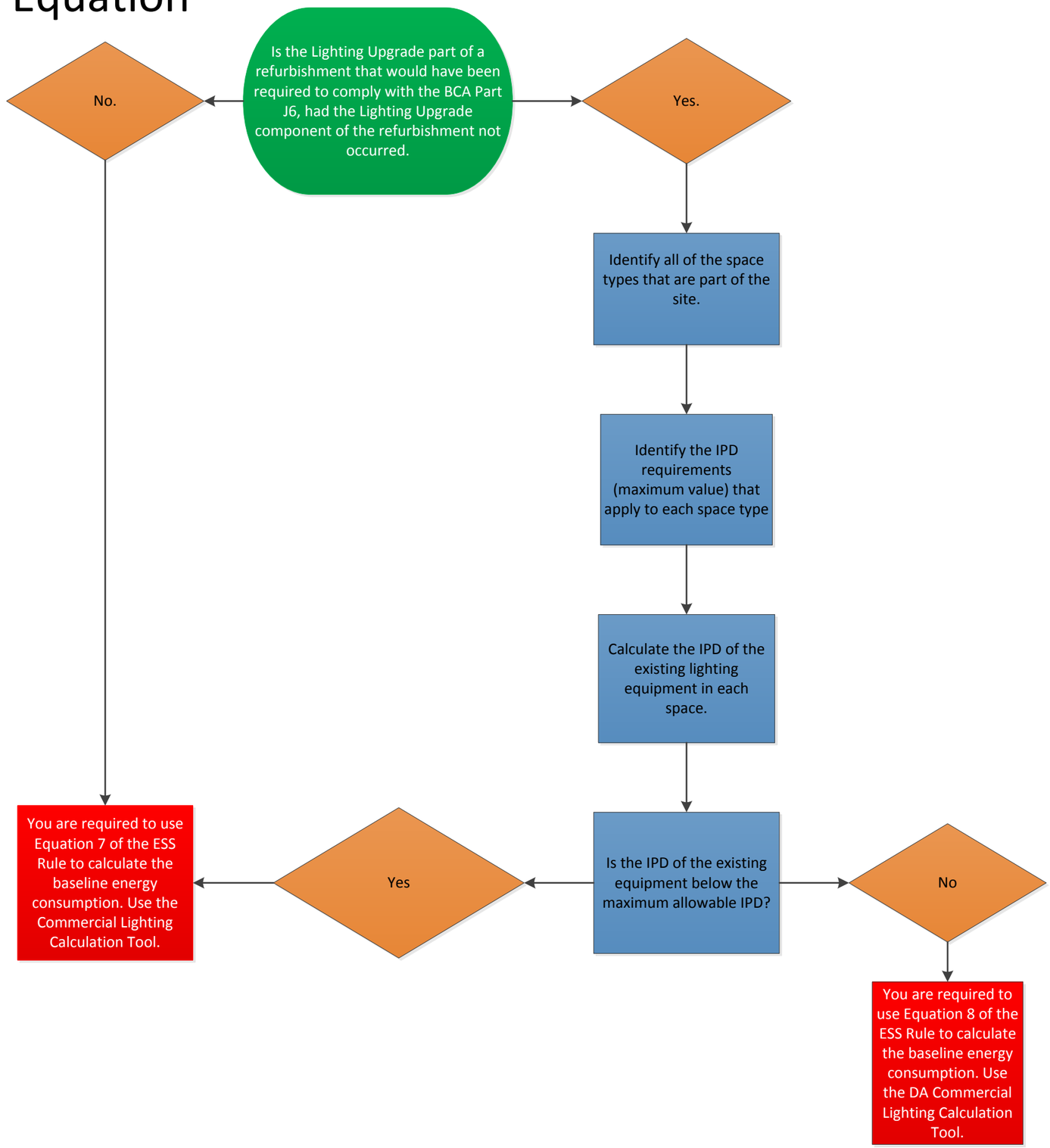
Space types are listed in Part J.6 of the BCA, and Table A10.2 of the ESS Rule. The site may include multiple space types (eg office, board room, corridor etc.).

IPD – Illumination Power Density

Part J6 of the BCA lists the maximum allowable IPD for each space type. All lighting upgrades must meet the maximum allowable IPD for each space type.

Legend





Energy Savings Scheme – Commercial Lighting Formula Interactions with the Building Code of Australia (BCA)
Step 2 – Determining the Annual Operating Hours

Notes

Site

A lighting upgrade occurs at a site. For the purposes of a lighting upgrade, a site may be an entire building, or part of a building (eg a single floor of an office building or single shop in a complex).

Space type

The site may include multiple space types (eg office, board room, corridor etc.). Space types are listed in Part J.6 of the BCA, and Table A10.2 of the ESS Rule.

IPD – Illumination Power Density

All lighting upgrades must meet the IPD requirements for each space type. Part J6 of the BCA lists the maximum allowable IPD for each space type.

BCA Classifications

If a site has multiple uses, it may have multiple BCA Classifications. If more than 10% of the floor area of a site is for a particular use, that area has its own BCA classification.

Where the site has a primary use, and less than 10% of the floor area of a site is used for a secondary purpose, the classification applying to the primary use may apply to the whole site.

Annual Operating Hours

In the ESS Rule, Annual Operating Hours are based on either:

- the space type where the lighting upgrade occurs (space type A); or
- the BCA classification of the surrounding site (space type B).

Space Type A

The Annual Operating Hours for the space type are specified in Table A10.2 of the ESS Rule.

Space Type B

Table A10.2 lists that the Annual Operating Hours for this space type are determined by the BCA Classification of the surrounding space. The default hours for each BCA Classification are listed in Table A10.3 of the ESS Rule.