



LIGHTING FIXTURES
Secondary Schools

1.1. GENERAL

- 1.1.1. Consultants MUST prepare a *Summary of Fixtures* which will include catalogue cuts, schedules, and cost summaries for all fixtures to be utilized on a project. Catalogue cuts are to include a minimum of 3 comparative and cost competitive types for each fixture.
- 1.1.2. For Theatrical; Lighting Fixtures, refer to Secondary School Performing Arts Guideline for details, but include the competitive types of fixtures in the *Summary of Fixtures*.
- 1.1.3. With the exception of the dimmable or accent lighting fixtures listed below, all fluorescent fixtures are to be either 600 mm x 120mm or 300 mm x 1200 mm. All fluorescent tubes are to be 1200 mm without exception.
- 1.1.4. Generally, all tubes are to be T8 In high ceiling areas but consideration may be given to T5 tubes in the Gymnasias. Review with the Design Department.
- 1.1.5. The number of T8 tubes in fixtures will depend on the possible differing heights of each of the specific areas, but preference is for single ballast. All fixture types will be discussed and approved by the Design Department.
- 1.1.6. The list below is not comprehensive, but identifies fixtures most commonly used on Secondary School projects.

1.2. MAJORITY OF FIXTURES TYPES

- 1.2.1. 600 mm x 1,200 mm (2 ft. x 4 ft.) 2 @ T8 tube light fixtures with reflectors, flush mounted hinged frame, non parabolic type lenses. Design layout to achieve approximately 60 ft. candles. Typically, these fixtures are to be located in such spaces as:
 - CLASSROOMS
 - SEMINAR ROOMS
 - LOW CEILING AREAS IN SHOPS
 - OTHER TEACHING SPACES WITH T-BAR CEILINGS
- 1.2.2. Same as Item 1.2.1 above, except without reflector. Typically, these fixtures are to be located in such spaces as:

• COMPUTER ROOMS	• ADMINISTRATION AREAS
• COMMUNICATIONS	• GUIDANCE AREAS
• STAFF WORK ROOMS	• ALL OFFICES
• TOP LANDINGS OF STAIRWELLS	• CORRIDORS
• BARRIER FREE WASHROOMS	• STAFF WASHROOMS
- 1.2.3. Same as Item 1.2.2 above, except either surface mounted or pendant type. Typically, these fixtures are to be located in such spaces as:
 - TEACHING AREAS WITH PARTIAL OR NO CEILINGS
 - EXERCISE ROOM AND DANCE (IF WITHOUT T-BAR CEILINGS)

1.2.4. 300 mm x 1,200 mm (1 ft. x 4 ft.) or 600 mm x 1,200 mm (2 ft. x 4 ft.) 2 @ T8 tube light fixtures without reflectors, vandal proof, flush mounted hinged frame in a drywall ceilings, non parabolic type lenses. Cove lighting in washrooms is unacceptable. Design layout to achieve approximately 30 ft. candles. Generally these fixtures are to be located in such spaces as:

- ALL STUDENT WASHROOMS
- ALL STUDENT CHANGE ROOMS
- STUDENT WASHROOMS IN ALTERNATIVE AREA

1.2.5. 300 mm x 1,200 mm (1 ft. x 4 ft.) fixtures, with reflectors, surface mounted or pendant type, non parabolic lenses. Design fixture layout to achieve 50 ft. candles. Typically, these fixtures are to be located in such spaces as:

- HIGH SHOP AREAS

1.2.6. Same as Item 1.2.5 above, except without reflector. Design layout to achieve 30 ft. candles. Generally, these fixtures are to be located in such spaces as:

- DRAMA STUDIO
- TV STUDIO
- STAGE AND GREENHOUSE
- STORAGE & SERVICE ROOMS
- SERVICE ROOMS
- MECHANICAL ROOMS,

1.2.7. Wall mounted fixtures are to be 1,200 mm (4 ft.) long fixtures. Typically, these fixtures are to be located in such spaces as:

- HEAT PUMP CLOSETS (ABOVE DOOR)
- MID LANDING OF STAIRWELLS (BOTH SIDES)

1.3. LIBRARY

1.3.1. Over the main library section, provide 600 mm x 1,200 mm (2 ft. x 4 ft.) T8 tube light fixtures with reflectors, flush mounted hinged frame, non parabolic type lenses. Design layout to achieve approximately 60 ft. candles.

1.3.2. Over the computer area in the library, provide fluorescent fixtures, without reflectors to achieve approximately 30 ft. candles.

1.3.3. Depending of the ceiling heights in the Library fluorescent pendant light fixtures may be considered. Review with the Design Department fixture design.

1.4. GYMNASIA

1.4.1. Gymnasia shall have fluorescent fixtures, complete with safety sleeves and wire guards.

1.4.1.1. Switching is to be located in the Instructor's Room.

1.4.2. For EACH single gym, detail multi-level lighting to provide 30/60/90 foot candles. Two tier lighting levels and T5 tubes may also be considered. Review multi-level options with the Design Department.

1.5. CAFETERIA

1.5.1. Cafeteria lighting shall be a combination of fluorescent fixtures and dimmable light fixtures. (Refer to Secondary School Performing Arts Guideline for details.)

1.5.1.1. Dimmable light fixtures are to be used only for performance functions.

1.5.2. Number of tubes in fluorescent fixtures should be detailed to achieve 50 ft. candles.

1.6. MATRIX

1.6.1. Typically, the lighting for the Matrix may be a combination of HID fixtures and fluorescent fixtures.

1.6.2. Lighting fixtures are to be mounted at an accessible level of 4,000 mm (13 ft.).

1.6.3. Some accent lighting may be considered for low ceilings.

1.7. CHAPEL

1.7.1. Fixture options for the Chapel are to be reviewed with the Design Department.

1.7.2. Lighting shall be fluorescent fixtures and dimmable lights.

1.7.2.1. Limit dimming switches to four (4),

1.8. DARK ROOM

1.8.1. To be reviewed with Design Department if included in the Program.

1.9. STAFF WORKSTATIONS

1.9.1. Valence style lighting is to be provided for all built-in work stations.

1.9.2. Fluorescent task lighting below the upper cupboards of staff work stations must be comprised of a continuous row of 1,200 mm (4 ft.) long, exposed single tube fixtures with safety sleeves. Fixtures are to be centred along the counter.