

## QP Lighting Notes

QP uses Hubbell 9965 twist-lock connectors on their lighting fixtures. Although they look similar to standard NEMA L5-20 twist-locks, they are not. They are completely incompatible with one-another. A number of adapters to both Edison and stage pin are available.

Dimmers 1-48, with the exception of dimmers 41 & 42, are all located in the grid.

Dimmers 35-40 are “twofered”. One set of these are located over the “big side” seats. The other is clustered in the center of the grid, near E on the diagram.

Dimmers 41 & 42 are located at ground level on both the inside and outside walls of both sets of doors into the theater.

Dimmers 49 and 50 are Edison outlets located in the passageway under the booth at the extreme end of the passage.

Dimmer 51 is available as Edison outlets both in the extreme upper left corner of the diagram and also at ceiling level near one of the main entrances.

Dimmer 52 is wired into the house lights (see below for more information).

There are 4 DMX drops located in the grid, as marked in the diagram

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There is a single DMX drop located under the booth next to dimmers 49 & 50.

A, B, and C, located at the bottom right of the diagram are dedicated, switched 20 amp circuits that can be used to provide constant power for any needed specials/practicals/etc. All 3 circuits have switches in the booth at the same location. Circuits A and B have outlets both in the booth and in the passageway underneath the booth. Circuit C only has outlets in the booth.

D, and E are two more switched 20 amp circuits that can also be used as desired. The switches for these circuits are located at head level at the bottom step leading up to the booth. Circuit D is located at ceiling level near dimmer 51. Circuit E is located at ceiling level near dimmers 35-38. Circuit E is typically used between productions to power a “beehive” LED floodlight used as a work light during set construction.

Under the seats near F are a power cord and DMX drop where the lighting console can be plugged in so lighting designers can move the console to this location and work with it here.

When controlling lights from the booth there are two switches that you should know about:

1. To the left of the booth window there is a switch that turns the work lights on/off. It is somewhat hidden by the ladder to the attic.
2. To the right of the booth window there is a switch for the house lights. It is usually flipped to the "work" position, which allows the lights to be turned on/off from the switches located by the far stage left door to the lobby. During performances, when the switch is flipped to "production" the house lights are controlled through the lighting console by dimmer 52.

Inventory (approximate):

19 Source 4's, with a mix of lens barrels that can be swapped in/out as needed:

- 10 50°
- 10 36°
- 3 26°
- 2 19°

The Source 4 barrels have white/silver marks on the front of each one to help identify them from the stage floor. 50° barrels have 3 stripes, 36° barrels have 2 stripes, and 26° barrels have 1 stripe. 19° barrels do not have stripes.

Approx 40 fresnels. Some use 500 watt BTL lamps. A growing number have had their sockets replaced with 575 watt HPL lamps (same lamp as Source 4's). These should all have "HPL" written on their bottom.

13 Source 4 PAR's

4 Source 4 JR Zooms (25° to 50°)

4 Gobo rotators for Source 4 JR's ('M' size gobos)

9 Altman 6x9s

4 Altman 4.5x9s

2 Altman 6x12s

3 14" scoops

3 High End Dataflash AF-1000 strobes (DMX controlled). Manual can be found on the QP website.

Most fixtures are located either in the grid, on the platform between the house lobby doors, or under the booth, underneath the stairs to the booth.

Gels, gel frames, gobo holders, safety cables, barn doors, top hats, etc. can all be found in the passageway under the booth, either hanging on the walls or on the wheeled cart under the

stairwell. QP has an account at Barbizon in Woburn so additional gels, lamps, etc. can be purchased there.

The theater also has 4 Lightronics AS-40D dimmer packs that can be used to mount to sets, etc. as desired. These dimmer packs have 4 600-watt channels that can be set via DIP switches to either dimmer or relay modes. A PDF manual for these dimmer packs is available on the QP website. If you plan to use all or most of 600 watts of all 4 channels then you must make sure to plug the dimmer pack into a 20 amp circuit and use an extension cord rated for 20 amps as well. (The circuits A-E mentioned above are all 20 amp.)

It is important to note that these dimmer packs have a non-standard DMX addressing scheme. The dimmer packs can only be assigned channels that are multiples of 4 plus 1 (channels 1, 5, 9, 13, 17, etc). Be sure to see the chart in the manual for guidelines on setting a channel and dimmer/relay mode.

There is a collection of DMX cable and 3-to-5 (and 5-to-3) pin adapters. All the cables have colored wire ties at each end to help identify them. 5-pin cables have blue wire ties and 3-pin cables have red wire ties. 3-to-5 and 5-to-3 pin adapters have yellow wire ties on each end along with a blue wire tie on the 5-pin side and a red wire tie on the 3-pin side.

Lighting cables, DMX cables, dimmer packs, adapters, etc. can all be found in the black bins with yellow tops that are stored under the stairs to the booth.

The theater has a 10 foot step ladder that can be used to reach the grid. There is a yellow wheeled scaffolding that is also well suited for working in the grid. This scaffolding (that QP members routinely refer to as "the Zamboni") is typically disassembled when not being used and stored near the stairs up to the booth. Ask other QP members for help setting up the Zamboni the first time.

