



Photo by Joan Marcus

## PROJECT SNAPSHOT

Project Name:	Dimming Control at <a href="#">A Christmas Carol</a> on Broadway
Location:	Lyceum Theatre, New York, NY
Project Completion:	December 2019
Lighting Designer:	Hugh Vanstone
Associate LDs:	Craig Stelzenmuller (US), Sam Waddington (UK)
Assistant LD:	Jess Creager
Production Electricians:	Jimmy Fedigan, Michael Brown
Other Lighting Team:	Scott Tusing, Karen Zitnick
Lighting Package:	<a href="#">PRG</a>
Scenic/Costume Design:	Rob Howell
Lantern Fabrication:	Kathy Fabian, <a href="#">Propstar NYC</a>
City Theatrical Solutions:	37 QolorFLEX® 24x3A Dimmers (P/N 5810), SHoW DMX Neo® Transceivers, Top Hats, Martin Accessories, Safer Sidearms™, Lightwright® 6, Moving Light Assistant™, Vectorworks

## CHRISTMAS CAROL ON BROADWAY

Directed by Matthew Warchus with a script adapted from the Dickens classic by Jack Thorne of *Harry Potter and the Cursed Child*, [A Christmas Carol](#) at the Lyceum Theatre on Broadway featured performances by stage and screen veteran Campbell Scott as Ebenezer Scrooge, a miser who is visited by the Ghosts of Christmas Past, Present, and Future.

## CHALLENGES

The lighting design team for *A Christmas Carol* on Broadway was looking for a way to create a unique and at times supernatural look for their design of this iconic holiday-inspired musical.

They decided to use lanterns above the stage and throughout the theater to create this unique look, and sought a low voltage dimming solution that was robust enough to control up to 24 lanterns per unit and create light patterns that would enhance the supernatural moments of the show.

They also required beam control solutions that could work with a multitude of lighting fixtures.

## SOLUTION

The lighting team for *A Christmas Carol* selected QolorFLEX 24x3A Dimmers to control almost 700 individually circuited 12V, 5w, Halogen Lanterns, which they hung all over the theater. The 37 total dimmers were pixel mapped through the ETC EOS Ti to allow for complete control of the patterns in which the lanterns would pulse and flicker to reflect the unique timing of the show.

**“We used 37 QolorFLEX 24x3A Dimmer Packs to control 682 individually circuited lanterns, which hung all over the theater. It created a canopy of holiday magic.”**

- Craig Stelzenmuller, Associate Lighting Designer (US), *A Christmas Carol*



## SOLUTION (Continued)

The lighting team, along with Ryan Murphy and Martijn Appello of [Aurora Productions](#), created five 60-foot-long Box Trusses and installed them over the audience running US/DS. From these trusses, 20 crossstage pipes were attached, each ranging in length from 35 to 50 feet, spaced every two feet and holding one QolorFLEX 24x3A Dimmer along with anywhere from 20 to 24 individual 12V lanterns.

The remaining 17 QolorFLEX 24x3A Dimmers were placed around the theater's side walls and balcony rails to feed lanterns in groups of 24 or less. These low voltage dimmers were crucial for creating the look and feel created by the lanterns hanging around the theater.

In addition to QolorFLEX Dimmers, the lighting team noted that nearly every flavor of conventional City Theatrical Top Hat was used as beam control accessories over the lighting fixtures used for the show. Specifically, the team used Martin Accessories by City Theatrical, including Concentric Rings for Martin MAC Aura and Top Hats for Martin Encore CLD Performance and Wash.

**“We placed 17 QolorFLEX 24x3A Dimmers around the theater’s side walls and balcony rails, each feeding lanterns in groups of up to 24. The look we were able to achieve would not have been possible without these low voltage dimmers.”**

*- Craig Stelzenmuller, Associate Lighting Designer (US),  
A Christmas Carol*



**QolorFLEX 24x3A Dimmers (P/N 5810)**

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