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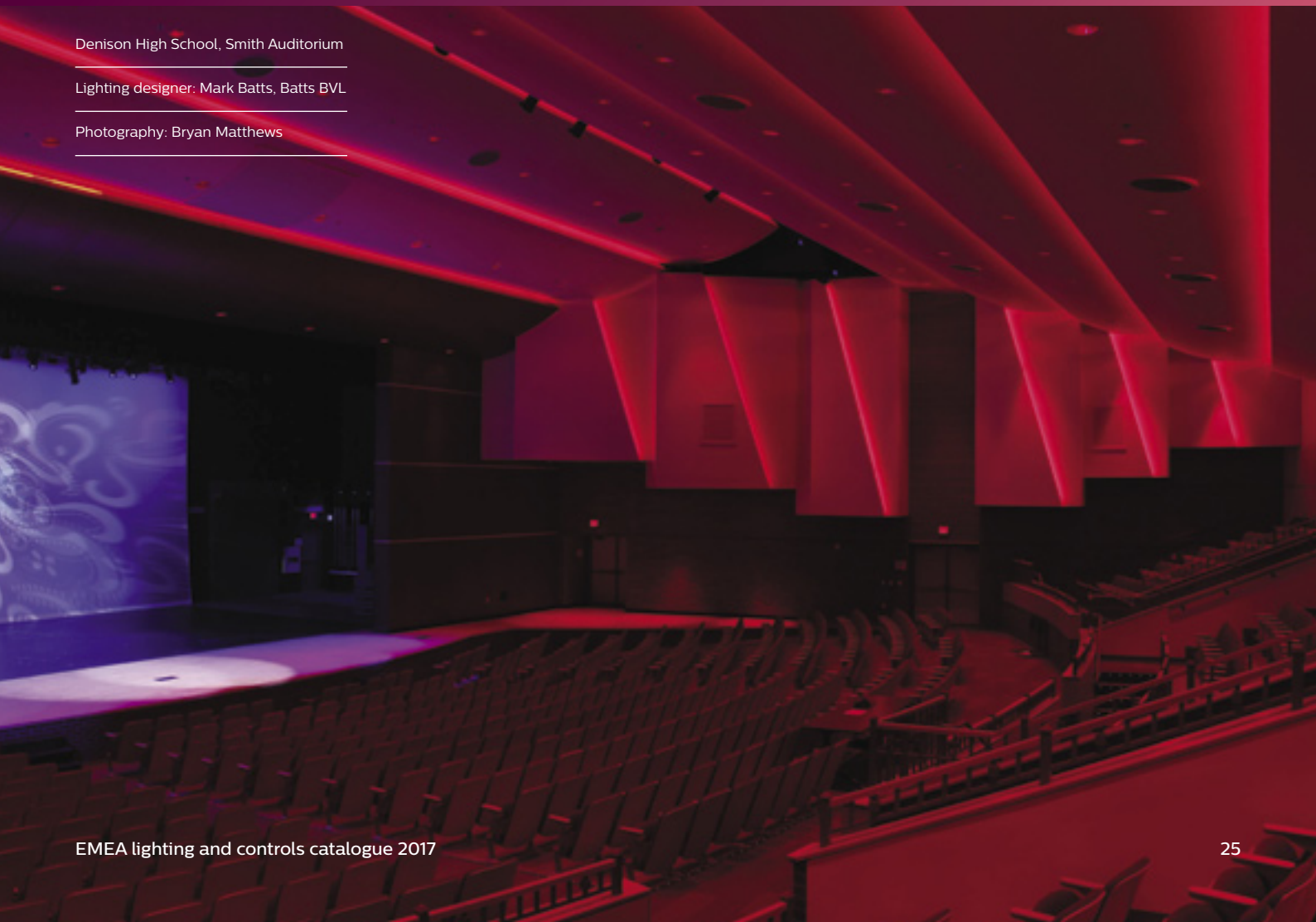
House lights

Lights for illuminating the audience areas and transforming the ambient environment.

Denison High School, Smith Auditorium

Lighting designer: Mark Batts, Batts BVL

Photography: Bryan Matthews



A complete creative solution **Smith Auditorium**

In many educational theater environments, students are confronted with the challenges of learning their craft on outdated equipment. But every so often, a school district gets the opportunity to create a performance space filled with the latest technologies available. Denison High School's newly created Smith Auditorium is a prime example, with its students now benefiting from a completely new lighting system comprising lighting, dimming and control from Philips Strand Lighting and Philips Selecon.

With funding for the project from the Smith Foundation in place, the school district called upon long-time and trusted supplier Batts AVL who curated and installed the complete package. This included control in the form of a Strand Lighting NEO console, R21 Raceways, an A21 Dimming Cabinet and an array of Philips PL series LED luminaires.

"When looking at the console for the new space, I knew the limitations of our old board and how we wanted things to be controlled differently," says Amy Jordan, Denison High School Theater Arts Department Chair. "Since we would be introducing quite a lot of LED intelligent lighting, it was imperative to find the right board that could not only run the new lighting system, but also not overwhelm the students at the same time."

Project Manager Mark Batts of Batts AVL agrees: "I personally love how easily the NEO handles intelligent LED functions, and it's much more intuitive than other consoles in organizing how you program these lighting technologies. In its control parameters, NEO is simply more expansive and it's a very impressive product."

"When I took the students into the booth to see the NEO for the first time, they were very eager to use it," continues Jordan. "They didn't necessarily want me to tell them how to use the desk, they just wanted to get in and use it for themselves. The NEO is that simple, yet powerful. The shortcuts are extremely intuitive and it doesn't take long to create extremely layered scenes."

With the lighting control in place, the focus turned to dimming, with the intention to provide Smith Auditorium the latest technology as well saving both valuable building space and installation costs.

Batts explained, "In the facility, The combination of the R21 distributive Dimming and the A21 Dimmer Rack seemed like a no-brainer because we were able to completely eliminate the need for a dimmer room, which saved on wiring costs and we were able to place the dimming in the performance area, saving us the 100-200 square feet that a traditional dimming closet would take up. In a new construction application where the value was approximately \$100 per square foot, the A21 dimming cabinet and R21 Raceways literally saved us thousands of dollars.

"We have six R21 Raceways in the design with two in the catwalk and then four more on stage. All of the R21 Raceways have mixed circuitry to control the dimming of conventional, switching of LED and Intelligent fixtures, and I really love the convenience of the focus button that is located on the strips. Plus, if needed in the future, we can change out modules from conventional to LED or Intelligent at any time."

Turning their attention to lighting the venue's myriad of performances, Batts decided to go all out with a full LED system that included PLprofile1, PLprofile4, PLcyc1 and PLfresnel1 luminaires.

"In the Smith Auditorium, the LED lighting is supplemented with traditional ellipsoidals and fresnels throughout the house and on stage," says Batts. "With the LED lighting, we needed to be able to color match with the traditional fixtures along with the automated luminaires, and the PLprofile4 with its tunable color temperature worked very well."

Jordan agrees, "I'm a designer by nature and I love the intensity of color from our new LED lighting. They are providing us with a power and vibrancy that we just don't get from traditional fixtures. We do a lot of isolated lighting, with pin spots and such, and the PLprofile4 luminaires work great for us doing exactly what we need. I also like to do deep colors with rich saturation and the LED colors really pop off the stage.

"In addition, the PLcyc1 luminaires have completely changed how we light our cyc and we no longer run out of gel, we just make the colors happen."

With the Smith Auditorium complete, the theater department at Denison High School now enjoys a beautiful and cutting-edge performance environment that also benefits the surrounding community.

House lights

Lights for illuminating the audience areas and transforming the ambient environment.

PL House Light LED MKII

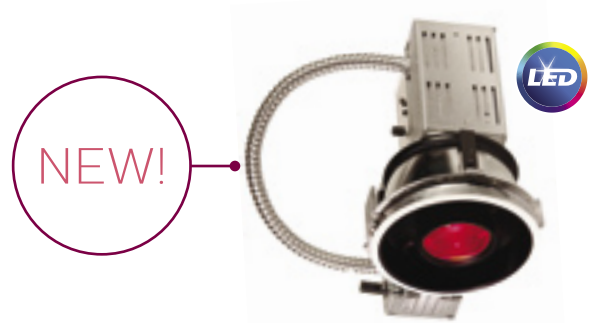


Source	RGBW LED
Wattage	120W (max)
Color temperature	2700-9000K
CRI	>80 @ 4000K white LED only
Beam angle	20-45°
Dimming	DMX512-A / RDM
DMX modes	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)
Cooling	Fan
Cooling control	Quiet / normal / full
Accessories	Slope adapter 5° Slope adapter 10° Slope adapter 15° Slope adapter 20° Slope adapter 25° Slope adapter 30°
Mounting	Recessed
Operating voltage	100-240VAC
Frequency	50/60Hz
Quiescent load	5W standby mode
Power draw	140W (max)
Ambient temperature	0-40°
IP Rating	IP20
Finish	White trim Black reflector
Construction	Aluminum and molded engineering grade plastic components, precision coated aspheric lenses
Dimensions D x H x W (maximum)	203 x 381 x 310mm
Weight	4.1kg
Warranty	3 years

Downlights: PL House Light LED MKII

The Philips Selecon PL House Light LED MKII is a recessed downlight, with tunable color temperature 2700–9000K and full color mixing functionality.

Controllable via DMX and RDM, the PL House Light LED MKII complements the overall lighting design of a production giving designers the control and flexibility to immerse the audience in color.



Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Trim	Mounting	Overall dimensions Ø x H x D	Weight	Order Code
LED	2700–9000K	140W (max)	20–45°	Simple 8-bit 8-bit 16-bit	White	Recessed	203 x 381 x 310mm	4.1kg	PLHLIBMKII

Accessories

	Order Code
5° slope adapter	PLHLSA5
10° slope adapter	PLHLSA10
15° slope adapter	PLHLSA15
20° slope adapter	PLHLSA20
25° slope adapter	PLHLSA25
30° slope adapter	PLHLSA30

Features

- Fully tunable 2700K to 9000K.
- Adjustable 20–45° beam spread.
- Selection of slope adapters to suit various ceiling inclines.
- No ultra-violet (wavelengths of less than 400nm) – for UV – A, B or C on the infrared spectrum (wavelengths of more than 775nm).
- Full color mixing for creative flexibility.
- Complete color gamut with precise color mixing controls.
- Integral dimmer (0–100%) reduces intensity with minimal color shift maintaining the selected color balance.
- Quick selection of warm white, cool white and daylight color presets.
- RDM for easy setup.
- Universal input voltage 100–240VAC.
- Three year limited warranty.

Suggested uses:



For more information visit philips.com/selection

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