

## Case Study:

### Williams Creates the Proper Learning Environment for Kansas Students

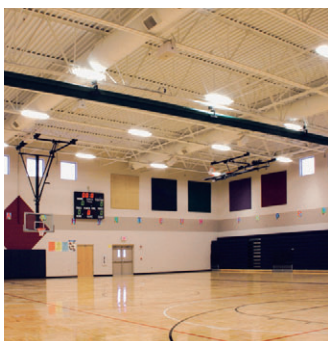
## Coffeyville Elementary School – Coffeyville, Kansas



A Visible Difference®

### Media Center/Library

(20) 79 Series Fixtures, Mounting Height: 12', Spacing: 10' squares, Footcandles: 50



### Gymnasium

Series: (25) GL-4-454T5H w/wireguard  
Mounting Height: 25'  
Spacing: 16' x 30'  
Footcandles: 50



### Corridor

Series: AIW (individual 8' fixtures)  
Mounting Height: 10'

The Coffeyville, Kansas School District decided to consolidate its four small existing elementary schools into one large, new school. The new facility, the School District believed, would allow them to equalize classroom size and increase staff efficiency in a new school. The result was a facility that included four educational pods, serving grades pre-K to 6, a common room, gymnasium, multipurpose room/cafeteria, and a media center/library.

PBA Architects, Wichita, KS, was selected to design the new school and Crossland Constructions Co., Columbus, KS, hired as construction manager for the project. As part of the construction team, Professional Engineering Consultants (PEC), Wichita, was selected to design the electrical and mechanical systems for the new facility.

Tim Lenz, P.E., electrical engineer for PEC, began with designing the lighting for the classrooms and hallways in the four educational pods, plus the multipurpose room/cafeteria. After evaluating available lighting technology, based on the budget, he specified 887 Williams 50G fixtures with two, three, and four 32-watt T8 fluorescent lamps.

In the Media Center/Library, the School District wanted to emphasize technology in the lighting design. Lenz used 20 Williams 79 Series fixtures with a clear galvanized aluminum finish. For the gymnasium, Lenz evaluated metal-halide and fluorescent lighting systems. Based on the multiple uses of gymnasiums and the age of the student body, Lenz decided on fluorescent lighting. The electrical contractor on the project, Bill's Electric, Joplin, MO, suggested Lenz consider Williams GL lighting system, based on the contractor's previous positive experience with the fixture. After his independent evaluation, 25 GL fixtures, each with four 54-watt T5 fluorescent lamps were chosen for the gymnasium.

Lenz worked closely on the project with Gary Fagg, Mercer-Zimmerman, Inc., Kansas City, MO, a Williams representative. Bill's Electric, Joplin, MO, was the electrical contractor and school district personnel will be responsible for the lighting maintenance.

## Case Study:

## Coffeyville Elementary School – Coffeyville, Kansas



### Hallway

Series: 50 Troffer  
Ceiling Height: 9'  
Spacing: 14'  
Footcandles: 30



### Classroom

Series: 50 Troffer  
Ceiling Height: 9'  
Spacing: 8' x 10'  
Footcandles: 50



### Multipurpose Room/Cafeteria

Series: 50 Troffer  
Mounting Height: 15'  
Spacing: 8' x 16'  
Footcandles: 30

### Quotes From the Field

"The Williams 50G fixture with dual-level switching used in the classrooms allows teachers to customize the lighting for varied types of instructional activities while still allowing us to meet the construction manager's cost objectives."

"Suspending the 79 Series fixtures with a clear galvanized finish allowed us to create a 'high-tech' environment in the media center/library while meeting the district's construction budget objectives."

"With Williams, our experience has been that the job typically goes smoothly and problem-free."

– **Tim Lenz, Electrical Engineer, PEC, Wichita, KS**

"While the lighting in the Media Center/Library is unique, it provides the light levels required here. The students think the design is 'cool' and looks like a space ship."

– **Kim Lee, Library Aide, Coffeyville Elementary School**

"I've taught for 24 years in 5 different buildings and this gymnasium is awesome. It is bright, crisp and beautiful."

– **Carla Thurman, PE Instructor, Coffeyville Elementary School**

### Other Products Used at the School

Product	Series	Application
Wrap Around	18	Break Room
Parabolic	HE3 2x4	Computer Lab
Industrial	80	Maintenance
	91	Gymnasium Entry
	92	Locker Room
Strips	76	Storage Areas
Recessed Fluorescent	PV60	Corridors
Recessed Incandescent	R60	Corridors