

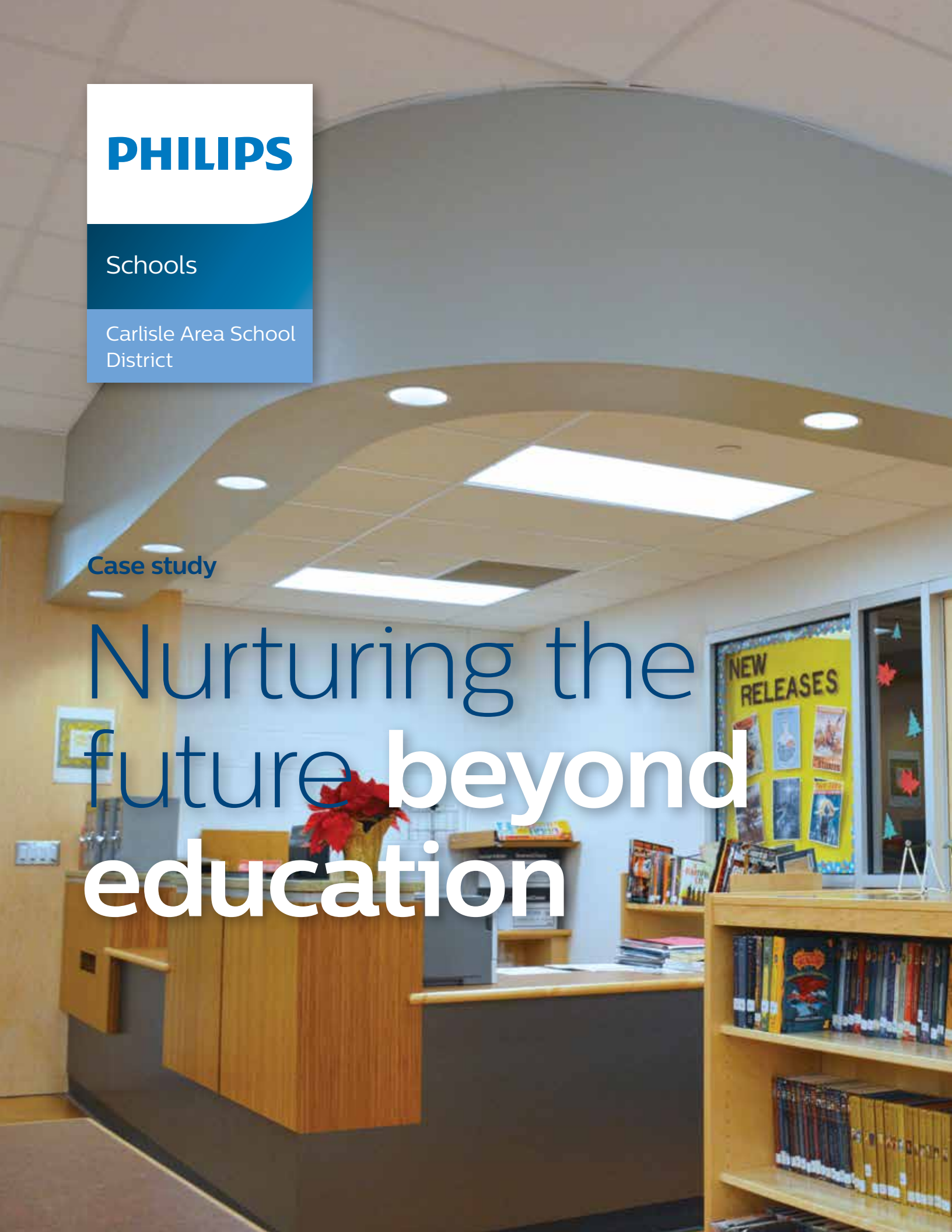
The Philips logo is displayed in a white rounded rectangle with a blue gradient at the bottom. The word "PHILIPS" is written in a bold, blue, sans-serif font.

Schools

Carlisle Area School  
District

Case study

# Nurturing the future **beyond** education





**Carlisle Area School District in Carlisle, PA empowers every learner to reach their highest level of personal excellence, and also applies the same doctrine across the district's varied staff as a way to set an example and positively impact the surrounding community. So when renovating and expanding the district's Lamberton and Wilson Middle Schools, both built in the late 1970s, they sought to configure spaces to optimize the student learning experience while also incorporating sustainable practices throughout. Indoor and outdoor lighting renovations were a large part of this project.**

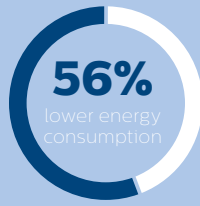
Philips Ledalite Shine recessed luminaires with Philips T8 lamps were installed in classrooms and corridors across the 120,725 square foot building, which included a 20,000 square foot addition. All classrooms had dimming ballasts and each row had separate controls, giving the teachers flexibility to customize the lighting and provide additional savings. Senior Electrical Designer Rob Henning, with Gatter & Diehl, Inc., Consulting Engineers in Mechanicsburg, PA was able to eliminate three luminaires from each classroom compared to the 2x4 T12 lamps previously in place, and also reduced the total number of luminaires installed throughout the corridors. "The Shine fixtures provide great illumination and consistent light levels without any cave effect," Rob notes. "But it's not just about their unmatched performance; we love their overall aesthetics, too." Additionally, the T8 lamp's energy savings were enhanced through use of daylighting and occupancy sensors, and light tubes were utilized in classrooms with no windows. Outside, Philips Gardco PureForm luminaires, Philips Gardco 121 LED performance sconces, and Philips Gardco Full Cutoff Bollard LED BR840 luminaires were incorporated; again allowing Rob to reduce the overall number of site lights and wall packs needed in the space, and also reducing the overall lighting power density.



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Rob Henning  
Senior Electrical Designer,  
Gatter & Diehl, Inc.



As a result of the lighting upgrade, and a number of other sustainable initiatives, the renovated buildings are expected to use approximately 56% less energy per square foot compared to the original buildings. Classroom light levels are approximately 45 fc, and the interior watts per square foot were reduced from 144,870 allowable to 101,456 designed / proposed. Additionally, the upgrades qualified for energy saving lighting rebates from the local utility company. Currently, the district's Lambertson Middle School is currently seeking LEED Gold Certification, and their Wilson Middle School, in close proximity to the district's solar energy field, is seeking LEED Platinum Certification.





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Philips Lighting  
North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873  
Tel. 855-486-2216

Philips Lighting Canada Ltd.  
281 Hillmount Rd.  
Markham, ON,  
Canada L6C 2S3  
Tel. 800-668-9008