Bridget Williams Lighting Design, Apple Valley, California
Project: Saint Charles Borromeo Church, North Hollywood, California
Design Team: Bridget Williams, IALD, LC, MIES
Photography: Bridget Williams

Cooper Lighting by FALON
38th Annual SOURCE Awards
Professional - Winner

Cooper Lighting
by F·A·T·N
Saint Charles Borromeo Church
The expansive, detailed architecture of Saint Charles Church exemplifies the Spanish colonial style and conveys a spirit of serenity and repose. With a history starting in 1921, the present church was built in 1959 reminiscent of San Carlos Mission in Carmel.

The design team, architect, pastor, parish council and contractors were very dedicated to their task of honoring the church. The team devoted the time necessary to the building process, scrutinized every change and every addition designed into the building. Fixtures from different manufacturers were examined and mocked-up and re-mocked-up using different fluorescent, LED and driver combinations. Photometric renderings, fixture samples and color filters were used to clarify the concepts and the final design intent.

Key to the project’s success would be the ability to create that incandescent look required by the design team. The interiors solution must also have the versatility to accommodate a bright and lively expression or a more serene quality when required. Additionally the challenge was to find lighting that could enhance and define the ornate, layered structural design of the space while incorporating affordable 21st Century technology. Final results from the system will accommodate a large variety of events ranging from a multitude of traditional services to full musical concerts. The diversity required emphasizes the importance of designing in layers of illumination with appropriate controls to highlight the atmosphere and define presets for each unique event.

Product lines from Eaton’s lighting solutions used in the application: Portfolio, Halo

St_Charles_001.jpg: Great care was taken to enrich the ethereal spirit throughout Saint Charles. After expenses of renovating the building, the lighting budget was adversely affected. Key to this projects success was to define the architecture with layers of illumination, while incorporating newer technology. Old systems were replaced as quality LED fixtures were installed from Eaton.

St_Charles_002.jpg: It was essential to the client that the interiors reflect a comfort of incandescent coloring. Color filters fitted to accents illuminate murals thus creating that warm glow. Halo Stasis luminaires illuminate the aisles while small 3000K Stasis spots accent statues beyond. The new lighting expresses tranquility, giving depth and direction to the church.

St_Charles_003.jpg, St_Charles_004.jpg, St_Charles_005.jpg: RGBAW-LED color lighting was added to enrich the Baldachin as Halo Stasis luminaires highlight murals and statues hidden behind the decorative arch. All elements may be utilized to create playful changes of light and direction for concerts and to enhance liturgical celebrations.

St_Charles_006.jpg: Medium and large Halo Stasis LED luminaires highlight individual points in the sanctuary. Mounted in the dome at a 47-foot height, these fixtures required exceptional beam control to effectively highlight the altar 60+ feet below. Finding affordable, high-performance luminaires made Halo the best choice.

St_Charles_007.jpg: The once incandescent chandeliers were completely refurbished to include efficient Portfolio 2700K, LED cylinders and wired to separate controls, creating different effects. The result provided a 900-watt savings per chandelier.

St_Charles_008.jpg: Originally a dark and shadowy space, chandeliers were rescued from the original baptistery and now brighten the lobby as recessed Portfolio LED downlighting illuminate the corridor.

St_Charles_009.jpg: Before renovation and lighting upgrades, the Sanctuary was dreary without definition highlighting the beautiful intricate architectural details in the space.

St_Charles_010.jpg: The transformation was stunning. The lighting throughout the St. Charles church resulted in only 1.0 watts of power per square foot. This along with the controls exceeded energy code. Comments from many involved and parishioners alike considered the lighting among the finest additions to the sanctuary, magnificently capturing interiors while honoring spiritual integrity of the space.
Horton Lees Brogden Lighting Design, Boston Massachusetts

Project: Biogen Idec Buildings 1 and 9, Cambridge, Massachusetts

Design Team: Carrie Hawley, Barrett Newell, Brandon Thrasher, Allison Hunter

Photography: Halkin Mason Photography (www.halkinmasonphotography.com)

Carrie Hawley  Barrett Newell  Brandon Thrasher  Allison Hunter

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The lighting design follows suit in inspiring innovation while providing practical modular solutions for flexibility. Lighting is intertwined with branding elements throughout the space, prominently supporting dynamic lobby features and creating signature visual experiences. Programmable LED accent lighting provides logical and unique visual experiences in the existing factory setting. Throughout open office areas, pendant-mounted up/downlights and recessed 1’ x 4’ direct/indirect troffers are carefully organized to allow for demountable partitions to be quickly installed. Executive areas received refined slots while still working within modules for flexibility. Breakout areas and a two-story winter garden are opportunities for relaxation and visual relief, and the lighting elements infuse a casual, playful nature into the otherwise sleek corporate culture.

The client’s heavy emphasis on sustainability, reduced energy consumption to achieve incentives, a limited palette of flexible fixtures, and ease of relamping made Eaton a great partner. Corelite Jaylume direct/indirect pendants are the primary fixtures lighting open office areas, specified with batwing optics allowing for wide on-center spacing, while Corelite Class Z3 1’ x 4’ luminaires illuminate private offices and huddle rooms. Neo-Ray Straight and Narrow slot fixtures provide a strongly branded visual backdrop. Displays and furniture are internally illuminated with striplights using carefully blended color temperatures.

Product lines from Eaton’s lighting solutions used in the application: Neo-Ray, Corelite

01_Biogen B9_image.jpg: This life sciences company’s sleek corporate vibe is apparent as one first enters the lobby of Building 1. An LED cove defines ceiling planes, small-aperture recessed accent lights provide sophisticated general lighting and highlight the reception wall, while an elegantly minimal LED pendant helps define the reception desk.

02_Biogen B1_image.jpg: Entering the lobby of Building 1, visitors are greeted with branding that tells the story of this life science company’s mission. Neo-Ray Pentaflex T8 fluorescent perimeter slot fixtures accent feature walls, while a recessed Neo-Ray Straight and Narrow T8 fluorescent slot fixtures highlights the reception desk. LED downlights provide additional general lighting.

03_Biogen B1_image.jpg: The lobby’s seating areas are bathed by LED downlights, while a Neo-Ray Pentaflex T8 fluorescent perimeter slot fixtures provides a strongly branded visual backdrop. Displays and furniture are internally illuminated with striplights using carefully blended color temperatures.

04_Biogen B1_image.jpg: Corelite Jaylume T5 fluorescent direct/indirect pendants provide the client’s requested 40 footcandles on work surfaces using its superior batwing optics and softly filtered downlight. Portfolio LED downlights provide general fill light at transitions. Decorative LED pendants are suspended in clusters in the winter garden, visible from several work areas, creating a dynamic backdrop.

05_Biogen B1_image.jpg: Executive areas feature Neo-Ray Straight and Narrow recessed T8 fluorescent linear slot luminaires, which provide soft general lighting that works within the flexible partitions. Additional slot fixtures and Neo-Ray Pentaflex T8 fluorescent perimeter slot luminaires illuminate administrative areas. Portfolio LED recessed downlights illuminate circulation areas.

06_Biogen B1_image.jpg: The executive boardroom is illuminated by T8 fluorescent slot fixtures integrated with LED dedicated accent lights, providing sleek general lighting, which doesn’t interfere with screen visibility and provides effective lighting for video conferences. Perimeter niches incorporate Neo-Ray Pentaflex T8 fluorescent perimeter slot fixtures to create comfortable visual surroundings during long meetings.

07_Biogen B1_image.jpg: Breakout spaces, such as this coffee bar and seating area, feature LED semi-recessed decorative downlights with glass lenses, establishing a more casual atmosphere. Artwork is illuminated by LED wallwash luminaires, while LED downlights provide additional task lighting to countertops within the coffee bar.

08_Biogen B1_image.jpg: This larger pantry cafe features LED linear wallwash luminaires, which effectively highlight the red patterned tile walls. Additional semi-recessed LED downlights and a decorative LED pendant provide additional visual interest and casual vibe. LED downlights with additional task lighting are used on countertops.

09_Biogen B1_image.jpg: The winter garden is a two-story transition space between the new Building 1 and an existing factory building that was converted into a training area. Decorative LED pendants of varying sizes and mounting heights visually animate the volume, while Portfolio LED wallwash luminaires help define the banquet seating area.

10_Biogen B9_image.jpg: A softly glowing connector allows for a comfortable transition from one building to the other. Linear LED grazing accent products with custom frosted lenses gently graze the fritted glass, allowing the connector to become a visual beacon from outside.

Cooper Lighting
by Eaton

Contact Karin Martin at kmartin41@aol.com or 630-513-8625 for more information.
38th Annual SOURCE Awards
Professional - Honorable Mention

Syska Hennessy Group, New York, New York

Project: Bill and Melinda Gates Hall of Computing and Information Science Building at Cornell University, Ithaca, New York

Design Team: Mary Ann Hay, Associate IALD, MIES, LEED AP
Anton Lama, Associate IALD, MIES, LEED AP

MEP: Sergiu Pelau and Raissa Denenberg

Architect: Thom Mayne, Ung-Joo Scott Lee and Ted Kane, Morphosis

Photography: Roland Halbe

Cooper Lighting
by F+A:N
38th Annual SOURCE Awards
Professional - Honorable Mention

Cooper Lighting
by F·A·N
Bill and Melinda Gates Hall of Computing and Information Science Building at Cornell University

The Bill and Melinda Gates Hall of Computing and Information Science building at Cornell University is comprised of 100,000 square feet of faculty offices, classrooms, laboratory space and department and program office space. The new building features convenient workspaces organized around an open atrium space encompassing four levels and a covered entry plaza providing a space for social interactions. The building itself has floor-to-ceiling clear glazed curtain walls wrapped with perforated stainless steel metal panels. Panels are strategically located on the exterior to minimize glare and solar heat gain while maximizing the daylight into the building. This is a crucial element to fight the long winter blues on this northern campus.

The lighting design for this building strives to reflect the spirit of innovation and excellence associated with this prestigious institution. The main lighting design goals included: sustainability and maintainability; to provide appropriate levels of light for varying tasks and varying users; balance electric light levels with daylight levels; respond to project goals with flexible and innovative control strategies; and meeting and exceeding energy lighting code and LEED requirements, all within pragmatic budget limits and constraints.

The entire new building is controlled through advanced building management and digital control systems with management nodes for dimming and switching, and occupancy and daylight sensors. The regularly occupied spaces on the perimeter have dimmable lighting fixtures for daylight harvesting. The corridors and circulation areas have dimmable lighting fixtures and occupancy sensors that automatically dim the lighting level to 50 percent or less in unoccupied mode.

Product lines from Eaton’s lighting solutions used in the application: Neo-Ray, RSA

01_Gates_Hall.jpg: From the exterior, the building softly glows from within through the glass façade and the architectural screen. Low-wattage lighting fixtures including metal halide and LED are integrated within the building design to provide illumination on the entry plaza orange overhang soffit, stairs and exterior entry points.

02_Gates_Hall.jpg: The 50-foot fritted glass atrium, which encloses the entry lobby, is lit with linear LED wall grazing light fixtures that run continuously on all sides of the atrium. Roof-mounted metal halide exterior floodlights shine through the clear skylight glass and light the stainless steel cladded finish on the fourth atrium side.

03_Gates_Hall.jpg: The circulation area with its angled walls is simply illuminated with linear fluorescent strip fixtures mounted above a metal grid ceiling. The fixtures follow the angled walls to create interest and a fluid eye cue into an otherwise static space. The Neo-Ray Geo Series 88 pendant fixtures are suspended above the metal ceiling grid in all perimeter offices and conference rooms.

04_Gates_Hall.jpg: The open lounge areas and breakout zones are illuminated with compact fluorescent downlights that are suspended above the open wire mesh ceiling. These downlights are located in a random pattern to provide ambient illumination. The breakout areas are also illuminated with RSA surface-mounted metal halide monopoint fixtures.

05_Gates_Hall.jpg: The lighting in the computer labs consists of Neo-Ray Series 23 fluorescent pendants suspended within the exposed structure of the labs. The linear fluorescent fixtures provide 10 percent indirect illumination, reinforcing the volume and height of the space. Matte finished parabolic louvers control the surface brightness of the lamps. LED task lighting at workstations supplements ambient lighting.

06_Gates_Hall.jpg: The lecture hall below grade with no access to daylighting is adequately lit with hidden fluorescent channels that are integrated within multiple vertical planes, which continue across the ceiling plane. These fixtures, developed in concert with the architectural design, provide interest and enhance the acoustical performance of the auditorium.
Sistemas, Tecnología y Maquinarias (S.T.M.)

Project: Punta Cana International Airport Terminal B, Punta Cana, Dominican Republic

Design Team: Iván Jiménez, Chief Electrical Engineer, Candida Diaz, Lighting Designer and Tirso Hernandez, Electrical Engineer

Architect: Antonio Imbert, Simples

Photography: Víctor Peralta, Miyossi Professional Photography Studio

Cooper Lighting

by EAT-N
38th Annual SOURCE Awards
Professional - Award of Recognition
Punta Cana International Airport Terminal B

The new Terminal B project began in December 2013, as an immediate need to manage the growing demand of flights arriving to the Punta Cana International Airport. All of the architectural, construction and technical drawings were designed over a two-month program with the goal to close the construction contract by February 2014. March 5 was the official start of the construction, and October 1 was the deadline for operations to take over the building. November 1, 2014, landed and docked the first flight to the new terminal to prove a development time of 11 months from drawings to operation.

The main objective of the lighting design was to have an energy-efficient, functional building with high-quality LED luminaires. Since time was a very important variable, a single lighting manufacturer that covered all the needs was requested, mainly to facilitate the ordering, transportation and installation process.

Eaton’s lighting products met all the aspects required and covered every area of the terminal that was defined from the beginning. Efficient and modern LED fixtures were chosen for every application, starting on the arrivals ramp with Lumark Quadcast floodlights to the exterior and transit area with the Ventus area luminaires. The lighting design was developed in a fast-track process that started with the brand selection and finished in a period of three weeks for the construction drawings delivered.

The lighting on the main corridors on both the departure and arrival levels were conceived with the particular architectural concept to have a single appearance that met the lighting needs of the area, but with lighting fixtures that would make a statement including Neo-Ray Straight and Narrow linear LED fixtures and RSA Combolight LED multi-lamp recessed fixtures. The exterior area lighting featured white poles that were already present at the airport, therefore the sleek appearance of the Invue Icon and Ventus luminaires achieved a similar appearance while giving the needed lighting performance.

With a tight coordination with the architectural firm, Simples Arquitectura, a simple approach was given to the lighting solution in the different areas, paying attention to efficiency and proper energy management.

Product lines from Eaton’s lighting solutions used in the application: Neo-Ray, Ametrix, Shaper, Portfolio, McGraw-Edison, Invue, Lumark, Metalux and Sure-Lites

01_PCIA_04.jpg: This external view of the west side of the terminal shows Eaton’s Ventus area luminaire. Chosen for the traffic areas and luggage-managing cars, the energy-efficient LED fixtures supply the desired even illumination and output, as well as matched the existing light pole desired modern look.

02_PICA_105.jpg, 03_PCIA_112.jpg: The departure counter areas feature a high 23-foot ceiling illuminated with Portfolio 8-inch LED downlights in 3500K with a high color quality of 90 color rendering index (CRI). The high ceiling area required a very efficient fixture with low maintenance needs.

04_PCIA_21.jpg: The Portfolio LED downlights were chosen for the product’s efficient characteristics and used for general illumination in most of the areas throughout the terminal and featured here in the departure migration area.

05_PCIA_27.jpg: The departures area main corridor connects the free zone stores, seating areas, gates and a bar. The RSA multi-lamp Combolight with three, 18-watt heads was an important fixture to create the general lighting pattern, bringing attention to the corridor while still in balance with the other areas.

06_PCIA_23.jpg: The food court at daytime has open ceiling areas that allow natural light into the space. The Portfolio downlight fixtures allow a balance between the natural light and the food stores, creating a comfortable environment.

07_PCIA_39.jpg: The departures connection bus area (COBUS) is where travelers sit and wait for flights. The 6-inch Portfolio LED downlights create a welcoming area.

08_PCIA_103.jpg: The Lumark Crosstour LED floodlight adds indirect lighting for the iconic “Cana” ceiling in the departure sidewalk area.

09_PCIA_102.jpg: Hidden and providing a continuous row of light, the Neo-Ray Straight and Narrow LED luminaires wash a distinctive stone wall in the departure main corridor area.

010_PCIA_101.jpg: The highly efficient Ventus LED outdoor fixture provides proper and uniform illumination on the ramps and transit areas.

Contact Karin Martin at kmartin41@aol.com or 630-513-8625 for more information.