



Auto Dealership Outdoor Lighting



AREA/SITE

CANOPY

FLOODLIGHTING
WALL

CONTROLS

WALKWAY



Hubbell Lighting, Inc.

Auto Dealership Outdoor Lighting Applications

The appearance of a dealer's product is as important as the service they provide. Evaluating a new site for a dealership in the early stages of design will ensure the lighting layout highlights the beauty of the automobiles. Each area of a site has a different flow of traffic whether it's the customers, cars or a combination of both. Having the right lighting option in the right location will make the area warm, safe and inviting. Because of this, our lighting professionals can assist with the layout of the luminaires and provide a complete lighting analysis of the space to ensure the best presentation. The modern car dealership has evolved and so has lighting it. Hubbell Lighting fixtures provide the best solution for every area of the dealership. From the reception area to the vehicle highlight, Hubbell Lighting has the fixtures to put your dealership "in the best light."

Service Area

A well lit exterior service area provides overall customer and employee safety for your business. Wallpacks in variety of sizes and distributions are available to meet your needs.

Customer Parking

Lighting is inviting to customers, adding to safety while keeping them comfortable during their shopping experience. A full-line of luminaires in a variety of sizes and shapes as well as matching poles are available.

Vehicle Highlight

Featured display of vehicles require different applications of light. Choose from flood, ingrade and landscape lighting to highlight these areas.

Customer Vehicle Delivery/Inspection

The purchase is complete with a well lit area for the customer to drive away in their new car. Outdoor canopy lighting, recessed and surface-mount models are available in matching styles. Additionally, wallpacks and accent lighting completes the package.

Vehicle Inventory – Interior Rows

Matching luminaires to highlight the new car inventory. Energy-efficient LED and traditional sources are available to customize the dealership layout with light levels to highlight inventory properly.

Outdoor Reception Area

An inviting entrance for customers requires accent and highlight lighting. Bollards, low level floods, landscape and wallpacks complete the package and are available in matching styles and finishes.

Signage & Flags

Accent lighting for dealerships includes: signs, flag poles, ingrade and floodlighting. These fixtures bringing a cohesive look to the dealership. A variety of light source choices are available including energy saving LED.

Vehicle Inventory – Front Row

Choose from the most complete line of luminaires and poles designed to perform for dealership lighting. Architectural die-cast, spun aluminum and formed shapes are available to satisfy any design requirement. Energy-efficient LED and traditional HID systems available with choice of round or square poles in steel or aluminum.

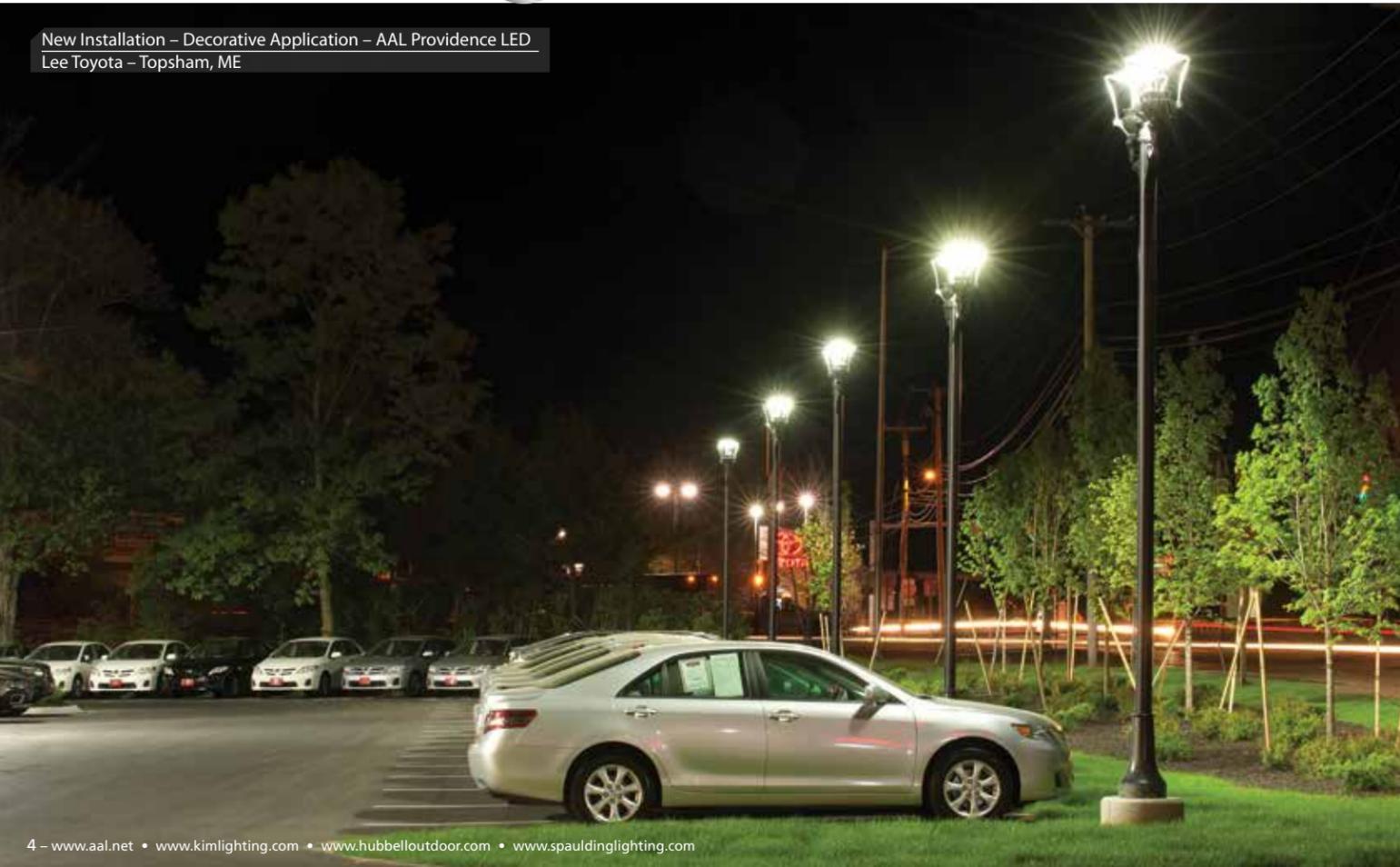




Retrofit 1-for-1 – Spaulding Cimarron LED
Evans Motors – Dayton, OH

69% SAVINGS!

New Installation – Decorative Application – AAL Providence LED
Lee Toyota – Topsham, ME



Site Lighting **LED**



SPAULDING LIGHTING

Cimarron LED

- Traditional luminaire styling with unique vertically finned die-cast housing that optimizes heat transfer to keep the fixture cool and maximize component life, energy saving 210w-336w. DLC approved.



KIM LIGHTING

Altitude Large LED

- Altitude Large received IES Progress Report Selection recognized for having one of the highest lumen packages in area light, 40,000+ lumens. Altitude is the luminaire maximizing power, performance and versatility with patented PicoPrism optics.



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Providence LED

- Combination of modern lighting performance with aesthetics in traditional forms
- Optical systems include vertical, horizontal reflectors, and indirect version
- Full cutoff for dark sky applications



KIM LIGHTING

Warp LED

- WARP9 LED was designed to disappear from the site, camouflage itself all with an eye to let the architecture shine through. The definition of a modern, energy-efficient, truly sustainable LED lighting solution. Available in 2 sizes, HID to LED upgrades are available.



KIM LIGHTING

Altitude Small LED

- Kim Lighting's ALTITUDE is the next revolution in LED outdoor lighting. The ultimate in luminaire design innovation by balancing form, engineering and superior optics. ALTITUDE is proportionally scalable with six sizes capable of pedestrian/site/roadway environments.



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Flex LED

- Multiple arm designs and mounting options, including single, twin, tri shape and quad, form a versatile "create it yourself" look
- Design innovation – die cast aluminum housing reflector module is sealed with a one-piece memory silicone gasket seal, tool less access

HID Solutions – *Vertical Lamp*



SPAULDING LIGHTING

MSV M-Pulsive™

- Square, one-piece formed aluminum housing is completely sealed, flat and convex glass available; up to 1000w systems.



SPAULDING LIGHTING

Alaire

- Architectural, one-piece, die-cast aluminum housing; Contour lines and radius corners complete unique design; Heat dissipating fins on top; flat or convex glass, up to 1000w systems.



SPAULDING LIGHTING

Medallion

- Architectural, one-piece die-cast aluminum, Die-cast aluminum door hinges to housing and secures with two, captive screws; Clear, flat or convex, tempered glass lens; up to 1000w systems.

HID Solutions – *Horizontal Lamp*



SPAULDING LIGHTING

Dallas

- Round spun aluminum housing featuring an embossed decorative band. Optional color vinyl trim stripe available; up to 1000w systems



KIM LIGHTING

Archetype

- The eclectic shape of The Archetype LED readily adapts to and complements contemporary architectural design. Upgradeable with HID to LED kits allows a broad range of applications.



KIM LIGHTING

Structural

- Kim Lighting's elegant form of Structural LED is an orchestrated combination of simple shapes in a dynamic architectural luminaire. Optional structural elements and HID to LED Upgrade Kits are available.



New Installation – Site/ Ingrade/ Perimeter – Spaulding/KIM/AAL
Eisenhauer Nissan – Wernersville, PA



Floodlighting



KIM LIGHTING

Axial Floods

- Two Luminaire Configurations — 175W and 1000W
- Six Distinct Optical Configurations
- Unlimited Mounting Options



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Oculus®

- Large, small & nano sizes
- LED and HID
- Field adjustable beam pattern



HUBBELL
Outdoor Lighting

M-LED

- Yoke mount
- LED
- Narrow, medium & wide beam



HUBBELL
Outdoor Lighting

ALF-LED

- Low profile
- 12 and 24 LED models
- Wall and flood mount versatility



HUBBELL
Outdoor Lighting

Laramie Floods

- Knuckle/ yoke mount
- LED, HID & CFL
- Narrow, medium & wide beam

Perimeter Lighting



KIM LIGHTING

Wall Director

- Architectural design
- LED, HID, HPS & FL
- 5 distributions, up down mounting



HUBBELL
Outdoor Lighting

Laredo Series

- 5 Architectural designs
- LED, HID, HPS & CFL
- Multiple distributions and Lumen packages



HUBBELL
Outdoor Lighting

PGL-PVL

- Polycarbonate or Glass
- LED, HID, HPS & CFL
- Proven design, vandal resistant



HUBBELL
Outdoor Lighting

Architectural Wallpacks

- 4 Architectural designs
- LED, HID & CFL
- Multiple distributions and Lumen packages

Ceiling / Canopy Lighting



HUBBELL
Outdoor Lighting

Sedona SCP

- LED system
- Versatile mounting options
- Multiple light distributions and LED configurations



KIM LIGHTING

PGL7

- LED system
- Versatile mounting options, surface/pendant
- 7 light distributions



DEVINE
LIGHTING

GFO/GFP

- Two sizes 10" and 14"
- Induction, HID & CFL
- Durable cast aluminum housing with acrylic diffuser



HUBBELL
Outdoor Lighting

UCL/UCT/UC-SM

- Modular system
- HID
- Durable cast aluminum housing with glass diffuser

Ingrade / Walkway



KIM LIGHTING

Lightvault®

- LED system
- Narrow, Spot & Flood
- Durable glass & composite construction



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Parkway Square

- LED, Induction, HID, CFL, HPS
- Multiple distributions
- Unique sophisticated style



KIM LIGHTING

Bounce

- LED, HID, CFL, HPS
- Multiple distributions
- Durable die-cast construction



SPAULDING
LIGHTING

Tempe

- LED, HID, CFL, HPS
- Multiple distributions
- Durable die-cast construction



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Concrete

- LED, HID
- Multiple distributions
- Durable concrete construction

For full product line please visit the brand websites below



Lighting Controls



Additional SAVINGS & Control

Eisenhauer Nissan auto dealership located in Sinking Springs, PA calculated 47% energy savings in lighting over normal operation scenario. The dealership incorporated wiHUBB® In-Fixture Modules with full-range dimming capabilities into 42 LED luminaires from Hubbell Lighting outdoor brands (KIM Lighting, Hubbell Outdoor & Spaulding Lighting). The wiHUBB® system allowed programmable control of the dealership site/parking luminaires, facility signs, ingrade and wall packs for maximum energy savings. Additionally, wiHUBB Smart Pack and Preset Switch were included for manual override control.

wiHUBB® Controls Features and Benefits

Energy Savings

- Fixture scheduling for On/Off and dimmed levels of illumination

Lower installation costs

- No rewiring or trenching on retrofit applications
- Factory installed wireless modules
- No additional wiring

Capabilities

- Programmable control of site luminaires
- wiHUBB devices communicate utilizing the most advanced radio RF technology
- Expandable/scalable system grows as your facility and lighting needs grow



wiHUBB® – Complete Control of Fixtures for Maximum Energy Savings

Eisenhauer Nissan utilized the wiHUBB® system and grouped fixtures by area to fit their dealerships needs. Below is an example of grouping and scheduling implemented at their auto dealership.

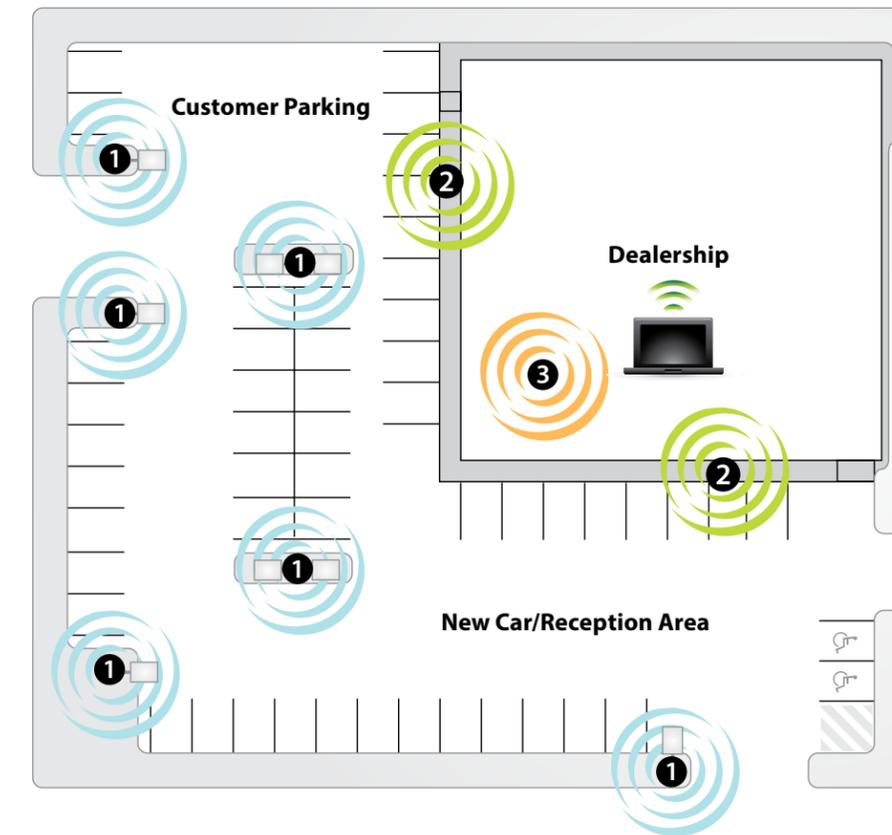
Fixtures – Location	Scheduled Time	S	M	T	W	R	F	S	Holiday
Parking/Wallpacks/Signs	ON 30 minutes Before Sunset	-	✓	✓	✓	✓	✓	-	-
Parking/Wallpacks/Signs	ON 15 minutes Before Sunset	✓	-	-	-	-	-	✓	✓
Parking	Dim Reduction 8:00 p.m.	✓	✓	✓	✓	✓	✓	✓	✓
Parking	Dim Reduction 9:30 p.m.	✓	✓	✓	✓	✓	✓	✓	✓
Parking	ON at 70% 5:00 a.m.	-	✓	✓	✓	✓	✓	-	-
All Fixtures	All OFF 15m After Sunrise	✓	✓	✓	✓	✓	✓	✓	✓



Spaulding Cimarron LED shown with wiHUBB® In-fixture module and antenna



KIM Altitude LED shown with wiHUBB® In-fixture module and antenna



wiHUBB® In-fixture Module with Antenna

- Factory installed in-fixture
- Includes small antenna
- On/Off and full range dimming control
- 0-10VDC interface for full range dimming control of dimmable ballasts and LED drivers



wiHUBB® Smart Pack and wiHUBB® Preset Switch

- Self-contained intelligent power pack with wireless control capabilities
- Simple one or two circuit wireless relays for independent circuit On/Off control
- Optional 0-10VDC output for full range dimming control of dimmable ballasts and LED drivers
- Included SmartPORT plug and play support for interface of wiHUBB Preset Switch



wiHUBB® Access Point

- wiHUBB lets you control, configure and reconfigure individual devices or groups of devices over-the-air with the click of a mouse
- Integrated web server provides connection via standard web browsers
- Web based commissioning and monitoring of the wiHUBB network
- Easy system access from local network or Internet
- Safe and secure FCC certified system with AES-128 security encryption

For additional information about wiHUBB and Hubbell Building Automation please visit: www.hubbell-automation.com





HID

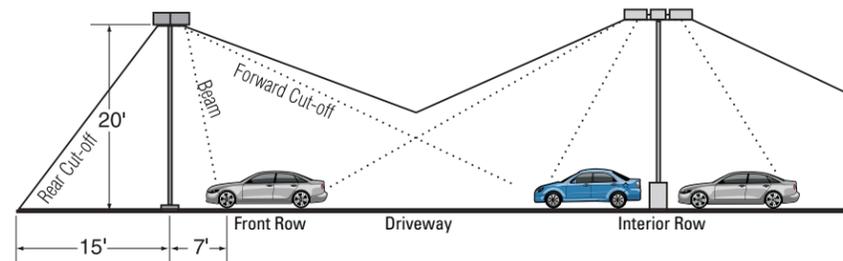


Hubbell Lighting brands offer the most comprehensive site luminaire styles and poles for the unique lighting needs of automotive dealerships. Models include both traditional HID luminaires in horizontal and vertical lamp orientations in a variety of shapes and sizes as well as the latest LED innovations. Whatever the lighting source, Hubbell Lighting has luminaires to showcase your vehicles for the greatest sales potential.

Traditional HID Luminaires

Traditional HID dealership lighting sources incorporate luminaires with a reflector system that drives light down on the front of cars in the front row, yet has a main beam that delivers light at 60° below horizontal which will light up the front of cars in the second row.

- Typically higher light levels
- Lower initial cost
- Broad offering of luminaire designs
- Optic assembly flexibility



Traditional HID Source Recommended Values

Traditional HID Source	High Competition				Medium Competition				Low Competition			
	Pole Height	Pole Spacing	Fixture Needed	Foot Candles	Pole Height	Pole Spacing	Fixture Needed	Foot Candles	Pole Height	Pole Spacing	Fixture Needed	Foot Candles
Front Row	20'-25' on 6" base	30'-35' on centers	Twin or Triple 1000w MH	100+ FC	20'-25' on 6" base	40' on centers	Twin 1000w MH	80 FC	20'-25' on 6" base	45'-60' on centers	Twin or Single 1000w MH	25-50 FC
Interior Row	20'-25' on 30" base	60' on centers	Twin or 120" or Quad 1000w MH	60-70 FC	20'-25' on 30" base	65' -70' on centers	Twin 1000w MH	30-35 FC	20'-25' on 30" base	90'-100" on centers	Twin 1000w MH	15-20 FC
Vehicle Inventory	20'-25' on 30" base	100' on centers	Twin 1000w MH	10-15 FC	20'-25' on 30" base	110'-120' on centers	Twin 1000w MH	3-5 FC	20'-25' on 30" base	120' -140' on centers	Twin 1000w MH	1-2 FC



LED

Solid State Lighting – LED Design & Performance

Our LED luminaires are designed with industry leading optical lenses and systems to distribute light where it is specifically needed for area/site, floodlighting, wall, pedestrian, parking structure and landscape applications.

LED Luminaire Advantages

By utilizing precise LED optical design and directional lens placement to maximize light delivery to the task, LED luminaires deliver many advantages over traditional lighting sources:

- Energy-efficiency – lower operating costs
- Superior light level uniformity – improved visual acuity
- Improved pole and fixture spacing reduces installation costs
- Long source life – reduces maintenance costs
- Virtually maintenance free
- Enhanced control options for increased energy savings and customized lighting

The diagram compares HID and LED light distribution. The HID pattern (dashed red line) is irregular and uneven, while the LED pattern (solid green line) is more uniform and directional. Below the diagrams is a table of LED system specifications.

LED System Watts	Lumens
125-150w	10,000
150-200w	15,000
200-230w	23,000
300-345w	31,600
345-410w	42,000

LED Source Recommended Values

SSL – LED Source	High Competition				Medium Competition				Low Competition			
	Pole Height	Pole Spacing	Fixture Needed*	Foot Candles	Pole Height	Pole Spacing	Fixture Needed*	Foot Candles	Pole Height	Pole Spacing	Fixture Needed*	Foot Candles
Front Row	16'-20' 6" base	20'-30' on centers	Twin 27,000 Lumen LED	40-50 FC	16'-20' 6" base	30'-40' on centers	Twin 15,000-23,000 Lumen LED	15-20 FC	16'-20' 6" base	35'-50' on centers	Twin 10,000-15,000 Lumen LED	8-10 FC
Interior Row	20'-25' 30" base	60' on centers	Twin 27,000 Lumen LED	30 FC	20'-25' 30" base	65'-80' on centers	Twin or Quad 15,000-23,000 Lumen LED	8-10 FC	20'-25' 30" base	80'-100' on centers	Twin or Quad 15,000 Lumen LED	4-6 FC
Vehicle Inventory	20'-25' 30" base	100' on centers	Twin or Quad 27,000 Lumen LED	6-8 FC	20'-25' 30" base	110'-120' on centers	Twin 15,000 Lumen LED	2-4 FC	20'-25' 30" base	120'-140' on centers	Twin or Quad 15,000 Lumen LED	1-2 FC

*Higher lumen fixtures can reduce number of fixtures on pole assemblies. Note: LED Source chart and system watts/lumens based on recent LED installations and client feedback. Consult your Hubbell Lighting Representative for more information.



Hubbell Lighting Inc. Distinguished Lighting Brands

- | | | |
|---|--|---|
| <p>Alera Lighting
 Architectural Area Lighting
 Columbia Lighting
 Compass Products
 Devine Lighting
 Dual-Lite
 HomeStyle Lighting
 Hubbell Building Automation
 Hubbell Industrial Lighting
 Hubbell Outdoor Lighting</p> | 
Hubbell Lighting, Inc. | <p>Kim Lighting
 Kurt Versen
 Prescolite
 Progress Lighting
 Security Lighting
 Spaulding Lighting
 Sportsliter Solutions
 Sterner Lighting Systems
 Thomasville Lighting
 Whiteway</p> |
|---|--|---|

United States
 Hubbell Lighting, Inc.
 701 Millennium Boulevard
 Greenville, SC 29607
 864-678-1000

Canada
 Hubbell Canada
 870 Brock Road
 Pickering, Ontario L1W 1Z8
 www.hubbell-canada.com

Mexico
 Hubbell De Mexico, S.A. DE.CV
 Av. Insurgentes Sur # 1228, 8th Floor
 Col. Tlacoquemecatl del Valle • 03200 Mexico, D.F.
 www.hubbell.com.mx