TekDek™: Delivering Lumens, Reducing Glare

In the same way that Solid State Lighting has revolutionized the entire lighting industry, TekDek™ LED Luminaires have revolutionized parking garage lighting. Kenall led the competition by designing TekDek™, a best-in-class parking luminaire that recognizes and remediates hazardous glare, keeping drivers and pedestrians safe and secure. TekDek creates the brighter, more secure parking environments that patrons seek and parking professionals demand. The TekDek series offers a range of outputs, which enables parking professionals to balance footcandle requirements, glare control and excellent value.

Challenging parking applications... Demand Kenall.

Front cover: Photo features TekDek™ luminaires with TekLink™ in application at Virginia Commonwealth University, Richmond, VA.

TekDek: A Story of Firsts

— FIRST with glare control in parking garage applications
— FIRST parking garage product to achieve 100 lm/w
— FIRST parking garage product to achieve 120 lm/w
— FIRST parking garage product to achieve 150 lm/w
— NOW, FIRST with a Peace of Mind Guarantee® on TekDek luminaires with embedded sensor

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When you see this logo treatment, it conveys Kenall’s position as a market leader in the design and manufacture of LED lighting and controls for challenging applications.
Your Parking Lighting Must Evolve – Here’s Why

The advent of energy efficient, solid state lighting is driving new mandates and standards pertaining to lighting and controls across the parking industry. Now, thanks to incentives and rebates from participating utilities, there has never been a better time to upgrade to LED.

Standards in the Lighting Industry

- 2013 Title 24, Part 6 Building Energy Efficiency Standards (California)
- ASHRAE 90.1 Energy Standards
- IES RP 20: Lighting for Parking Facilities
- Green Parking Council: Green Garage Certification
Project: Virginia Commonwealth University (VCU)
Location: Richmond, VA
Project Manager: Keith Van Inwegen, VCU Design & Construction
Agent: Lighting Virginia
TekDek™
Enhances Student Safety, Lighting Uniformity and Energy Savings at Virginia Commonwealth University
Kenall engineers and designers have developed an innovative, patented design that delivers superior glare control and a variety of lumen packages for today’s parking structure. A specially-designed textured lens, working in conjunction with secondary optics, reduces disabling and discomfort glare, while also providing uplight and enhancing vertical illumination. When paired with Kenall’s TekLink™ lighting control system, TekDek delivers the right amount of light exactly when and where it’s needed.

- **Glare Reduction**
  Kenall’s innovative textured lens provides unprecedented glare reduction—greatly enhancing both vehicle and patron safety while preserving the optical distribution pattern.

- **Die-cast Housing**
  TekDek’s marine-grade, die-cast aluminum housing provides maximum strength and durability. To maximize LED life, the housing design also includes a thermal air gap between the fixture’s temperature-sensitive drivers and its heat emitting components.

- **Vertical Footcandles**
  Kenall’s parking garage luminaires provide double—often triple—the vertical footcandles of typical LED parking garage lighting.

- **Uplight Feature**
  TekDek provides a highly desirable uplighting component to eliminate the problematic “cave effect” commonly found in traditional parking decks.

- **Embedded Microwave Sensor**
  Unaffected by line of sight issues, the internal, embedded sensor provides a consistent coverage pattern. The system antenna is concealed within the housing making it impervious to vandalism. Adjustable sensitivity settings are also available via remote control.

- **Sealed Optics**
  The lens is sealed, gasketed and IP65 rated.

- **Traditional Design Aesthetic**
  The TekDek luminaire delivers an aesthetically soothing feel with a classic architectural look.
The **TekDek™** Series: Lumens Tailored to Fit Your Needs

The TekDek™ Series offers four standard outputs and two base models, which allows specifiers to tailor light levels to the specific lumen/efficiency requirements and budget parameters of a project.

**TekDek™ Light Output**

**TD17**

<table>
<thead>
<tr>
<th>Lamp Power (W)</th>
<th>Initial Delivered Lumens (lm)</th>
<th>Efficacy (lm/W)</th>
<th>Input Power (W)</th>
<th>Estimated L70 Lifetime (hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>4,006 - 5,350</td>
<td>118-157</td>
<td>34</td>
<td>200,000</td>
</tr>
<tr>
<td>47</td>
<td>5,557 - 8,269</td>
<td>103-153</td>
<td>54</td>
<td>175,000</td>
</tr>
<tr>
<td>72</td>
<td>7,618 - 11,346</td>
<td>98-147</td>
<td>77</td>
<td>150,000</td>
</tr>
<tr>
<td>94</td>
<td>9,721 - 14,681</td>
<td>93-140</td>
<td>106</td>
<td>125,000</td>
</tr>
</tbody>
</table>

**TD17B**

<table>
<thead>
<tr>
<th>Lamp Power (W)</th>
<th>Initial Delivered Lumens (lm)</th>
<th>Efficacy (lm/W)</th>
<th>Input Power (W)</th>
<th>Estimated L70 Lifetime (hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>3,953-5,036</td>
<td>101-129</td>
<td>39</td>
<td>100,000</td>
</tr>
<tr>
<td>52</td>
<td>4,394 - 6,261</td>
<td>74-106</td>
<td>59</td>
<td>90,000</td>
</tr>
</tbody>
</table>

**A Range of Outputs for Safety, Security & Savings**

[Diagram showing annual energy usage based on various lighting and control scenarios]

Source: USDOE Gateway Demonstration Project - LED Conservation with Occupancy Sensor Controls at the U.S. Department of Labor HQ Garage, Washington, DC
TekDek™ Flexible Mounting Types

Because no two installations are exactly alike, TekDek luminaires are available with a range of mounting options and accessories.

**Direct-to-Surface Mount (DTS)**
Secures the fixture directly to the ceiling via a simple and secure four-hole mounting plate.  
*Required for Peace of Mind Guarantee®

**Quick Mount (QM)**
Includes an integrated hanger bracket to hold the fixture, facilitating ease of installation and maintenance. The quick mount uses a simple twist-and-click motion to set the fixture into place.

**Pendant Mount (PM)**
For use whenever an aesthetically pleasing, suspended configuration is desired. Pendant by others.

**Trunnion Mount (TK)**
A common mounting option for use when a suspended configuration with additional support is desired.

**Bird Guard (BG)**
Available for both the pendant and trunnion mounts, the bird guard protects the fixture from birds nesting in exposed areas.

**Debris Shield (DS)**
An optional debris shield protects against debris accumulation.

**TekDek™ Dimensional Drawings**

**TD17 Standard Construction**
Product built as above under all configurations, except as noted for options using A1 Construction (see figure to the right).

**A1 Construction**
Product built as A1 when ordered with TekLink™, TL1000 (w/o sensor), TL2000 (w/o sensor), LEL, GTD and 480V options.
**TekDek™ Installation and Maintenance:**

As Easy As 1-2-3*

1. Remove three (3) screws on housing to open.

2. Hinge pin allows luminaire to swing down and away from housing, or remove it to separate the luminaire from the housing.

3. To close the fixture, simply push up firmly while re-fastening the three housing screws.

*A1 Construction

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**TekDek™ Ordering Information**

Sample Ordering Information (EX: TD17-PM-5N-TP-DB-47L-40K8-DCC-DV)

| ORDERING INFORMATION (Ex: TD17-PM-5N-TP-DB-47L-40K8-DCC-DV) |
|---|---|---|---|---|---|---|---|---|---|
| **Model** | **Mounting** | **Dist. Type** | **Lens Type** | **Finish** | **Lamp Type** | **Lamp Power** | **Driver Type** | **Voltage** | **Options** |
| TD17 | 17" TekDek Base | | | | | | | | |
| TD17B | 17" TekDek | | | | | | | | |
| DTS* | Direct-to-Surface | | | | | | | | |
| PM | Pendant Mount | | | | | | | | |
| TK | Trunnion Kit | | | | | | | | |
| QM< | Quick Mount System | | | | | | | | |
| Distribution Type | **2**< | Type II | | | | | | | |
| | **2HSS**< | Type II, House-side shield | | | | | | | |
| | **5N** | Type V – Narrow Round | | | | | | | |
| | **5S** | Type V – Wide Square | | | | | | | |
| **Lamp Power** | **Lamp Color** | **Driver Type** | **Voltage** | **Options** | **Accessories** | **TekLink** | **Controls Kit** |
| TD17 | DB | Dark Bronze | 30W LED | 3000K/80CRI min | | | |
| TD17B | FG | Forest Green | 72W LED | 4000K/80CRI min | | | |
| 47L | LG | Light Gray | 94W LED | 5000K/70CRI min | | | |
| 94L | MB | Matte Black | | | | | |
| 72L | MW | Matte White | | | | | |
| 30L | SL | Silver | | | | | |
| **Controls Kit** | | | | | | | |
| | | 0-10V Dimming Constant Current | 120-277 Volts (50/60Hz) | 480+ Volts (60Hz) | | | |
| | | 3047 Voltage | | | | | |
| | | 347‡ | 347 Volts (60Hz) | | | | |
| | | 480+ | 480 Volts (60Hz) | | | | |
| | | LEL:‡ | Emergency Battery Pack (0°F minimum ambient) | | | | |
| | | GTO** | Generator Transfer Device | | | | |
| | | BG | Bird Guard (click here for details) | | | | |
| | | FS | Single Fuse & Holder | | | | |
| | | PH | Phillips Fasteners | | | | |
| | | DS | Debris Shield | | | | |

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**Peace of Mind Guarantee**—When installed according to manufacturer’s instructions, Kenall will repair or replace any fixture rendered inoperable due to physical abuse for the life of the product installation.

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Parking Luminaires

TekDek or TekDek Base with Type 5S Distribution

Parking Areas
TD17
Delivered lumens: 4,006–13,619 lm
Lamp Power: 30–94 W
Efficacy: 118–128 lm/W
TD17B
Delivered lumens: 3,953–5,810
Lamp Power: 33W, 52W
Efficacy: 98–101 lm/W

TekDek or TekDek Base with Type 2 Distribution

Drive Lanes
TD17
Delivered lumens: 5,557–12,013 lm
Lamp Power: 103–113 W
Efficacy: 47–94 lm/W

TekDek Base with Type 5N Distribution

Ramps
TD17B
Delivered lumens: 4,260–6,261 lm
Lamp Power: 33W, 52W
Efficacy: 74–129 lm/W

TopDek

Top Deck of Garage
TPD23
Delivered lumens: 9,424–37,279 lm
Lamp Power: 92–300W
Efficacy: 70–149 lm/W

PROJECT: Red Ventures
LOCATION: Fort Mills, S.C.
AGENT: Bagby Company
TekDek™: Versatile Distribution Options

Traditionally, LED lighting in parking garages provided no uplight, creating "cave effect" illumination—distributing light directly beneath the fixture while ignoring peripheral areas—creating dark corners and dim ceilings. Kenall’s TekDek LED offers a range of illumination patterns, including two IES Type 5 distributions to address a majority of applications, as well as a Type 2 distribution for mounting over drive lanes, and two unique house-side shield options.

**Type 5S** Commonly used over parking bays where evenly distributed light is required, Type 5S produces a square distribution, delivering intensity at all angles and providing impressive uniformity.

**Type 5N** Type 5N produces a narrow, round distribution, delivering light intensity at all angles, providing impressive uniformity.

---

**Type 5S**
- Open garage areas
- Porticos
- Transportation platforms

**Type 5N**
- Garage payment locations
- Garage entrances & exits
- High ceiling areas
- Gas station canopies

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**TD17 Type 5S Optic Mounted Over Parking Bays**
- 8 Fixtures @ 30' Spacing
- 10' Ceilings
- Fixtures mounted 8’3” from floor

<table>
<thead>
<tr>
<th>Avg f/c</th>
<th>Min f/c</th>
<th>Uniformity</th>
<th>Reflectances (p) 20/20/10</th>
<th>TLLF</th>
</tr>
</thead>
<tbody>
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<td>4.1</td>
<td>2.2</td>
<td>2.1</td>
<td>20/20/10</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**TD17 Type 5N Optic Mounted Over Parking Bays**
- 8 Fixtures @ 30’ Spacing
- 10’ Ceilings
- Fixtures mounted 8’3” from floor

<table>
<thead>
<tr>
<th>Avg f/c</th>
<th>Min f/c</th>
<th>Uniformity</th>
<th>Reflectances (p) 20/20/10</th>
<th>TLLF</th>
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<tbody>
<tr>
<td>4.5</td>
<td>1.7</td>
<td>3.1</td>
<td>20/20/10</td>
<td>0.8</td>
</tr>
</tbody>
</table>
Type II Distribution: Energy Savings for Drive Lane Installs

When drive lane mounting is an option, you can reduce your luminaire count by up to 38% using TekDek’s Type 2 distribution. Reduce glare, put light where it’s needed and still reduce input wattage, resulting in a potential energy savings of up to 71% (over HID options).

Type 2  TekDek’s Type 2 optic is ideal for use in drive lane installations resulting in substantially reduced installation cost and significant energy savings.

Type 2
Garage drive lanes
Covered pedestrian walkways
Pedestrian paths in garage

TD17 Type II Optic Mounted Over Drive Lanes

5 Fixtures @ 24' Spacing

| Avg f/c | 3.4 |
| Min f/c | 1.3 |
| Uniformity | 7:1 |
| Reflectances (p) | 20/20/10 |
| TLLF | 0.8 |
TekDek™ A Full Range of Lighting

TekDek luminaires are commonly used in parking applications, but thanks to a range of lumen packages, a tightly-sealed housing, and a Peace of Mind Guarantee® (when specified with the polycarbonate lens and DTS mounting) they are a perfect fit for a variety of applications:

- High/Low Bay
- Canopy
- Transit
- Cold storage
Kenall’s TekLink™ series is a portfolio of control systems with a range of options ideal for parking garages, parking lots, manufacturing facilities, warehouses, stairwells and multi-purpose rooms. With five systems—two that are cloud based—and a variety of available options, Kenall has a lighting control system for your unique application.

Integrated Solutions for Any Budget

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<th></th>
<th>TL50</th>
<th>TL100</th>
<th>TL1000/TL2000</th>
</tr>
</thead>
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<tr>
<td>Sensor</td>
<td>Microwave/Infrared</td>
<td>Infrared/Ultrasonic</td>
<td></td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>√</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjustable Occupancy Time-Out</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Daylight Feedback</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Adjustable Dim-Level</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Zonal Control</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>One Touch Light Level Commissioning*</td>
<td></td>
<td></td>
<td>√</td>
</tr>
<tr>
<td>L70 Detection*</td>
<td></td>
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</tr>
<tr>
<td>Scheduling</td>
<td></td>
<td></td>
<td>√</td>
</tr>
<tr>
<td>Reporting</td>
<td></td>
<td></td>
<td>√</td>
</tr>
</tbody>
</table>

*Patent No: US 20120153840
TekLink™ TL50: Individually controlled LED luminaires with embedded sensor

TekLink™ TL50 is a lighting control system integrated into a single luminaire. The control system coordinates the individual luminaires light output based on daylight contribution and/or occupancy detection. TL50 offers the ability to meet ASHRAE 90.1-2010 requirements with select sensors, and is compatible with Kenall’s full parking series.

System Features:

- Occupancy Detection
- Open Loop Daylight Harvesting
- Adjustable Time-Out
- Adjustable Bi-level Dimming
TekLink™ TL100: Zonal, wired lighting system with centralized luminaire control

TekLink™ TL100 coordinates luminaire light output based on daylight contribution and occupancy detection. The control system offers a choice of four different programs, each with a unique way of handling the system’s occupancy detection and response to daylight.

System Features:
- Zonal occupancy detection
- L70 status indicator (patented)
- Sweep-off and over-ride ON
- ‘Safe on’ failure mode
- One-button commissioning
- Closed loop daylight harvesting

System Programs:
- On – Off daylighting (exterior)
- On – Dim daylighting (interior)
- Occupancy only (stairwell)
- Inverse daylighting (vehicle entryways)
TekLink™ TL1000 and TL2000: Wired and wireless, cloud-based lighting control systems

Sophisticated, yet easy to use, TekLink TL1000 and TL2000 are adaptive lighting control systems that feature robust scheduling and reporting capabilities.

**System Features**
- Cloud-based, wired or wireless system
- User friendly, graphical interface
- Flexible system configuration; user defined access levels
- 900 MHz to penetrate concrete and rebar
- Robust scheduling capabilities
- Real-time monitoring, measurement and recording
- Automated system alerts
- Ease of commissioning

**Luminaire With Integral Controller**
- Controls luminaire light output via wired or wireless (900 MHz) networks
- Continuous sensing, processing and measuring of data
- Embedded sensor design

**Bridge**
- Each bridge collects and organizes data of up to 100 luminaires
- Ensures connectivity and maintains zonal control

**Gateway Router**
- Connects lighting network—up to 10 bridges—to cloud via cellular network
- No IT infrastructure required

**Cloud**
- Secured platform allows system control from internet browser

**User Interface**
- Configures lighting system
- Provides reports
- Receives alerts

**TopDek™**
- Parking Surface
- Post Top Surface/Lot
- Parking Garage

**TekDek™**
- Parking Garage

**TekLink™ TL1000 and TL2000:** Wired and wireless, cloud-based lighting control systems

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**Parking Luminaires**

**Completing the Parking Series**

Kenall offers a comprehensive series of luminaires to address a variety of needs in your project, including our NEW SenScape SPG18, which, like the TekDek, can be used in a broad range of applications.

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**SenScape™ (SPG18 Series)**
- Delivered lumens 4,000 – 10,500 lm
- Lumens per watt: 100 – 120 lm/W
- Marine-grade die cast aluminum housing
- Textured tertiary lens for glare reduction; eliminates the ‘cave-effect’
- Desirable uplight; up to 10%
- IP65 Rated Construction
- Embedded microwave sensor offers an industry exclusive Peace of Mind Guarantee®
- Optical patterns designed specifically for covered parking applications
- Compatible with TekLink™ lighting control systems

Nominal Size: 18” Diameter
Installation Types: Surface, Pendant, Trunnion, Quick Mount

**TopDek™ (TPD23 Series)**
- Delivered lumens 9,424 – 30,443 lm
- Input watts: 92 – 300 W
- Lumens per watt: 70 – 109 lm/W
- Type II, III, IV, V-Narrow Round, and V-Wide Square distributions
- Die-cast, marine-grade aluminum housing
- Textured acrylic or polycarbonate flat lens for superior glare reduction
- Sealed optics with IESNA full cutoff distribution
- Internal house-side shield reduces wind loading
- Compatible with TekLink™ lighting control systems

Nominal Size: 23” Diameter
Installation Types: Pole mounted (pole by others)

**TopDek™ Post Top (TPDPT Series)**
- Delivered lumens 6,693 – 34,361 lm
- Input watts: 100 – 408 W
- Lumens per watt: 48 – 114 lm/W
- Type II, III, IV, V-Narrow Round, and V-Wide Square distributions
- Die-cast, marine-grade aluminum housing
- Textured acrylic or polycarbonate flat lens for superior glare reduction
- Sealed optics with IESNA full cutoff distribution
- Internal house-side shield reduces wind loading
- Compatible with TekLink™ lighting control systems

Nominal Size: 26” Diameter
Installation Types: Pole mounted (pole by others)
Complementary Parking Products
Kenall offers a comprehensive series of luminaires to address a variety of needs throughout your parking structure.

Stairwell

Millenium Stretch™  EnviroSeal™  Millenium OS™

Building Facade

Millenium™  Millenium FreeScale™  Millenium Auracyl™  Millenium Finite™

Exit/Egress

Millenium Metrex™  METEL  MLER  METER
EXPLANATION OF “INGRESS PROTECTION” IP NUMBERS
for Degrees of Protection for Sealed Luminaires

Example:

<table>
<thead>
<tr>
<th>Numeral</th>
<th>Short Description</th>
<th>Brief details of objects which will be “excluded” from the enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Non-protected</td>
<td>No special protection</td>
</tr>
<tr>
<td>1</td>
<td>Protected against solid objects greater than 50 mm</td>
<td>A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50 mm in diameter.</td>
</tr>
<tr>
<td>2</td>
<td>Protected against solid objects greater than 12 mm</td>
<td>Fingers or similar objects not exceeding 80 mm in diameter. Solid objects exceeding 12 mm in diameter.</td>
</tr>
<tr>
<td>3</td>
<td>Protected against solid objects greater than 2.5 mm</td>
<td>Tools, wires, etc., of diameter or thickness greater than 2.5 mm. Solid objects exceeding 2.5 mm in diameter.</td>
</tr>
<tr>
<td>4</td>
<td>Protected against solid objects greater than 1.0 mm</td>
<td>Wires or strips of thickness greater than 1.0 mm. Solid objects exceeding 1.0 mm in diameter.</td>
</tr>
<tr>
<td>5</td>
<td>Dust-protected</td>
<td>Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.</td>
</tr>
<tr>
<td>6</td>
<td>Dust-tight</td>
<td>No ingress of dust</td>
</tr>
</tbody>
</table>

DEGREES OF PROTECTION INDICATED BY THE SECOND CHARACTERISTIC NUMERAL

<table>
<thead>
<tr>
<th>Numeral</th>
<th>Short Description</th>
<th>Brief details of objects which will be “excluded” from the enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Non-protected</td>
<td>No special protection</td>
</tr>
<tr>
<td>1</td>
<td>Protected against dripping water</td>
<td>Dripping water (vertically falling drops) shall have no harmful effect.</td>
</tr>
<tr>
<td>2</td>
<td>Protected against dripping water when tilted up to 15°</td>
<td>Vertically dripping water shall have no harmful effect when tilted up to 15° when the enclosure is tilted at any angle up to 15° from its normal position.</td>
</tr>
<tr>
<td>3</td>
<td>Protected against spraying water</td>
<td>Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.</td>
</tr>
<tr>
<td>4</td>
<td>Protected against splashing water</td>
<td>Water splashed against the enclosure from any direction shall have no harmful effect.</td>
</tr>
<tr>
<td>5</td>
<td>Protected against water jets</td>
<td>Water projected by a nozzle against the enclosure from any direction shall have no harmful effects.</td>
</tr>
<tr>
<td>6</td>
<td>Protected against heavy seas</td>
<td>Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.</td>
</tr>
<tr>
<td>7</td>
<td>Protected against the effects of immersion</td>
<td>Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.</td>
</tr>
<tr>
<td>8</td>
<td>Protected against submersion</td>
<td>The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE – Normally, this will mean that the equipment is hermetically sealed. However with certain types of equipment it can mean that water can enter, but only in such a manner that it produces no harmful effects.</td>
</tr>
</tbody>
</table>
State-of-the-art, certified testing facility

Kenall is equipped with a state-of-the-art certified safety laboratory, providing comprehensive in-house testing capabilities:

- Thermal Testing
- Ingress Protection Testing

Kenall Warranty Information

Kenall is pleased to be able to offer our exclusive Peace of Mind Guarantee® on select luminaires. Kenall’s Peace of Mind Guarantee is available when a textured polycarbonate lens (TP) is selected and ordered, and when installed according to instructions.

Kenall promises to stand behind our parking luminaires. Our commitment to excellence enables us to offer a 10-year limited product warranty on select parking products.

For detailed, product-specific warranty information, please visit our website at www.kenall.com.

LED Lighting Facts — Department of Energy LED Quality Advocate Program For LED Luminaires

As a member of the Department of Energy’s LED Quality Advocates, Kenall Manufacturing has pledged to include the Lighting Facts label in conjunction with our LED luminaires. The label reports product performance results in five areas from actual test data* in accordance with industry standards measuring photometric performance of LEDs:

- Luminaire light output
- Efficacy (lumens per watt)
- Measured power (watts)
- Correlated Color Temperature (CCT)
- Color Rendering Index (CRI)

* Luminaire measurements have been standardized with the issuance of the IESNA Standard LM-79-2008 test procedure.

Kenall Manufacturing is a registered Lighting Facts Product Partner. For more information about this program or for copies of our Lighting Fact Labels please contact Kenall at info@kenall.com, or visit us on the web at www.kenall.com

<table>
<thead>
<tr>
<th>LED Lighting Facts®</th>
<th>Kenall Lighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Output (Lumens)</td>
<td>7256</td>
</tr>
<tr>
<td>Watts</td>
<td>53.95</td>
</tr>
<tr>
<td>Lumens per Watt (Efficacy)</td>
<td>134.49</td>
</tr>
</tbody>
</table>

| Color Accuracy | Color Rendering Index (CRI) | 75 |
|----------------|-----------------------------|

| Light Color | Correlated Color Temperature (CCT) | 4907 (Daylight) |
|-------------|------------------------------------|
| Warm White | 2700K |
| Bright White | 3000K |
| Daylight | 4500K |
| 6500K |

Warranty** Yes

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008.
Approved Method for the Electrical and Photometric Testing of Solid-State Lighting
The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.