A Visible Difference®

Industrial Lighting
**Performance**

Williams Industrial fixtures are engineered to maximize efficiency. Precision-formed reflectors, highly reflective powder coating applied after fabrication, and state-of-the-art lamping technologies are combined with the latest components to produce highly efficient fluorescent and induction luminaires.

**Aesthetics**

Attention to detail sets Williams apart. Our standard paint-after-fabrication process ensures that every edge is finished to enhance the overall appearance, while making each fixture easier and safer to handle. Williams’ expansive offering of industrial products is carefully designed to enhance a multitude of projects including high bay, wet location, extreme temperature, and aisle lighting.

**Technology**

By combining the latest in design software, CNC fabrication centers, and computer integrated progressive tooling with the latest lamp technologies, Williams provides innovative fluorescent and induction solutions for the industrial industry.

**Quality**

Every Williams fixture is produced to the exacting standards of the Williams family; the same quality and performance as dictated by the founder, H. E. himself. The Williams commitment to excellence is backed by decades of experience producing dependable, quality, paint-after-fabrication fixtures—all supported by unsurpassed customer service.

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**USA Proud**

Williams Fluorescent Industrial products are proudly manufactured in Carthage, Missouri—right in the heart of America. Select USA vendors, many within our local four-state area, provide the quality materials and components that contribute to our “USA Proud” approach to quality manufacturing.

Family-owned and operated in the same Midwest town since 1921, Williams fixtures are still being produced to the exacting standards of quality and performance as dictated by the founder himself, H. E. Williams.
Williams’ state-of-the-art, phosphate-free, multi-stage paint process requires no heat, produces little to no sludge, and completely eliminates any use of phosphorus.

Environmentally responsible without compromising quality, this system operates at room temperature, realizing significant energy savings while providing even coverage, excellent paint adhesion and superb corrosion resistance.

- Highest quality results in an environmentally-friendly process.
- Significant energy savings.
- Reduced waste/sludge.
- Contains no hazardous heavy metals.
H.E. Williams, Inc. offers a wide range of energy-efficient, high-performance fixtures designed to save you money—in some cases as much as 50% in energy savings!

Choose from a wide array of industrial fixtures designed for high-bay, wet-location, induction, extreme temperature, and utility applications—all featuring Williams heavy-duty hallmark quality construction.

Performance-driven and cost-conscious, Williams Fluorescent™ energy-saving fixtures are engineered to increase light output and fixture efficiency for rebate-winning performance.

How Do You Measure Up?

See how well your business performs in the area of energy efficient lighting with an energy audit. Something as simple as adding an occupancy sensor to automatically turn fixtures off when they aren’t in use can result in significant savings.

Williams’ fixtures are designed to maximize energy savings whenever possible. By using our online Payback Calculator, you’re just a few clicks away from determining your return on investment with Williams lighting products. Visit us at www.hewilliams.com.

Maximum Fixture Efficiencies

<table>
<thead>
<tr>
<th>Series</th>
<th>Maximum Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Bay</strong></td>
<td></td>
</tr>
<tr>
<td>GL</td>
<td>98.5%</td>
</tr>
<tr>
<td>GLA</td>
<td>81.5%</td>
</tr>
<tr>
<td>GLN</td>
<td>97.9%</td>
</tr>
<tr>
<td>HL</td>
<td>97.6%</td>
</tr>
<tr>
<td>AL</td>
<td>97.4%</td>
</tr>
<tr>
<td><strong>Wet Location</strong></td>
<td></td>
</tr>
<tr>
<td>EGL</td>
<td>91.3%</td>
</tr>
<tr>
<td>TL12</td>
<td>92.2%</td>
</tr>
<tr>
<td><strong>Induction</strong></td>
<td></td>
</tr>
<tr>
<td>ICEILN</td>
<td>93.6%</td>
</tr>
<tr>
<td>ICEHBL</td>
<td>96.5%</td>
</tr>
<tr>
<td>ICEHBT</td>
<td>96.0%</td>
</tr>
<tr>
<td>ICETL12</td>
<td>92.9%</td>
</tr>
</tbody>
</table>

Series | Maximum Efficiency
---|---------------------
**Extreme Temperature**
HL65 | 92.8%
EGL  | 91.3%
**Utility**
80   | 96.3%
81   | 96.3%
82   | 95.5%
83   | 90.0%
84   | 97.2%
85   | 92.7%
88   | 98.2%
95   | 84.2%

HID High Bay

<table>
<thead>
<tr>
<th>Before</th>
</tr>
</thead>
<tbody>
<tr>
<td>After</td>
</tr>
</tbody>
</table>

GL 4-Lamp, 54-Watt T5HO

Before

After
High Bay

GL Series

Specify up to eight T5 or T8 lamps in cross-section, allowing the GL to be used in many different applications at varied mounting heights. Customize the GL with many available options and accessories to perfectly fit your requirements. Quick and easy installation, superior optical performance, and many years of trouble-free operation are a few of the many benefits of the GL.

Features & Benefits

• Up to 98.5% optical efficiency.
• Optional energy-saving occupancy sensors available, see Fluorescent Information section.
• Aluminum housing for maximum heat dissipation and extended ballast life.
• Easy access to ballast without the removal of lamps or the use of tools.
• Unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition.
• Quick-wire access plate in back of fixture housing provides for easy attachment of incoming power supply.
• Shallow fixture depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
• Variety of mounting options.
• This fixture is proudly made in the USA.
Special Applications

**GLN**

Just over 8” wide, use the GLN at low to medium mounting heights to effectively illuminate the space. The highly efficient GLN is offered with varying lamp cross-sections, mounting configurations, and shielding.

GLN provides an energy-saving alternative to traditional HID. 4’ and 8’ fixture lengths are available with 1, 2, or 3T5 or T8 lamps in cross-section. Highly specular reflector helps achieve extremely high efficiency, and unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition. Optional white reflector is available for a wider light distribution; often needed at lower mounting heights.

Mounting choices include rigid pendant, chain, or aircraft cable. Customize the GLN with a door frame and lens, wireguard, louver, uplight apertures, or an occupancy sensor to put the finishing touch on your project.

**GLS**

- Designed with an angled back and flangeless sides that reduce dust build-up on the fixture housing.¹
- Optional energy-saving occupancy sensors available.
- Includes double-gasketed lens to reduce, not prevent, dust entry into the fixture.¹
- High-performance highly specular reflector system standard.
- Clear acrylic lens standard, other shielding options available.
- Heavy-gauge aluminum housing for maximum heat dissipation and extended ballast life.
- This fixture is proudly made in the USA.

¹ The GLS is not rated as a dust-tight fixture.

GLN Series
Every industrial lighting job is different. Some require frills, some don’t. Efficient and economical, the HL is designed for the no-frills application where a long list of options is, well, not an option.

Providing up to 97.6% optical efficiency, the HL consumes less energy than metal halide or HPS and delivers comparable light levels when replaced one-for-one. In fact, the HL is so efficient, it qualifies for many regional energy rebates.

Efficient, economical, and hard-working, the HL does the job it’s designed to do, and does it right!

AL
- Up to 97.3% optical efficiency.
- Shallow fixture depth provides sleek, low-profile appearance.
- Optional energy-saving occupancy sensors available.
- Unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition.
- Wireway is accessible without the use of tools.
- Quick-wire access plate in back of fixture housing provides for easy attachment of incoming power supply.
- Ballast(s) secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- This fixture is proudly made in the USA.
High Bay Accessories

Occupancy Sensor
The GL can be used with an occupancy sensor to turn lights on when motion is detected and off when motion is no longer detected. Program start ballast is recommended with T8 to avoid shortened lamp life.

5% Uplight
Optional apertures in the top of the housing provide 5% uplight to illuminate the ceiling and eliminate the "cave effect".

Cord
Straight, 72" cord, 3-conductor, 18 AWG, black, wired to the fixture. Available in many lengths and with twistlock plug.

Door Frame & Lens
Steel door frame with 0.118" thick clear high temperature acrylic glazing (non-prismatic clear lens). Other lens materials available. Spring-steel clips secure the door frame to the GL housing.

Wireguard
11-gauge white powder coated wireguard protects lamps where risk of impact is present—ideal for gymnasiums. May be used in conjunction with lensed door frame.

5% Uplight
Optional apertures in the top of the housing provide 5% uplight to illuminate the ceiling and eliminate the "cave effect".

Hub Mount
Cast iron 3/4" mounting hub and junction box attaches easily for single pendant mounting (4' fixture only). Available with hook; hook and cable; or hook, cord, and plug for HID replacement.

Y-Hanger & Chain
One pair of hangers and two 2' pieces of chain quickly and securely mount the GL. Consult factory for other lengths of chain.
GLA Series

The GLA is perfect for big-box retailers, supermarkets, multi-purpose rooms—or anywhere an attractive fixture is needed at higher mounting heights.

Extruded aluminum sides provide a modern appearance while 2, 4, or 6 lamps in cross-section accommodate a wide range of mounting heights and light levels. Uplight apertures illuminate the ceiling for a pleasing ambient quality of light.

The GLA Series is available with a 1” deep louver that follows the housing contours and shields the lamps. Custom colors are available to put the finishing touches on your project.
**Wet Location**

**EGL Series**
- Hose-down tested at 1500 PSI @ 1.4 GPM to withstand water penetration.
- Can operate up to 40ºC/104ºF with high-ambient (HA/40C) option (T5 only).
- Up to 91.3% optical efficiency.
- Precisely formed lens provides maximum efficiency.
- Seamless closed-cell gasket poured and formed in place and liquid-tight power entry.
- Curved-top housing without flanges reduces dust build-up.
- High-performance highly specular aluminum reflector system optional.
- This fixture is proudly made in the USA.

**IP Ratings**

<table>
<thead>
<tr>
<th>Solids (first number)</th>
<th>Liquids (second number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>No protection</td>
<td>No protection</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Protected against objects &gt; 50mm (hands)</td>
<td>Protected against dripping water or condensation</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Protected against objects &gt; 12mm (fingers)</td>
<td>Protected against sprays of water 15º from vertical</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Protected against objects &gt; 2.5mm (tools/ wires)</td>
<td>Protected against sprays of water 60º from vertical</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Protected against objects &gt; 1mm (small tools)</td>
<td>Protected against water sprayed from all directions</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Protected against dust, limited ingress</td>
<td>Protected against low pressure jets of water</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Totally protected against dust</td>
<td>Protected against heavy seas</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Totally protected against dust</td>
<td>Protected against the effects of immersion</td>
</tr>
<tr>
<td></td>
<td>Protected against submersion</td>
</tr>
</tbody>
</table>

Example: An IP rating of IP-68 would indicate a dust tight device that can withstand total submersion in water.
TL Series
- NSF/ANSI Standard 2–Splash Zone certified.
- Hose-down tested at 2000 PSI @ 3.8 GPM to withstand water penetration.
- Suspended, wall, or surface mount options.
- Stainless steel, corrosion-resistant end caps are sealed with a gasketed washer and a heavy-duty silicone gasket.
- Ideal for car washes, food preparation, hose-down areas, laboratories, and agricultural applications.
- All exposed parts are corrosion-resistant.
- Liquid-tight power entry.
- Wide variety of wire, cord, and receptacle options.
- Ballast(s) secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- This fixture is proudly made in the USA.

TL12 Series
Williams Fluorescent TL12 Series–12" liquid-tight industrial tube light—is NSF Splash Zone, IP66 and WET location certified. The TL12 meets the demands of many wet environment applications including food processing plants, agricultural facilities and hose-down areas. Designed with four or six T5 or T8 lamps, the TL12 offers optical efficiencies as high as 92% and can operate up to 40ºC when used with the high-ambient option. Other options include a wet location occupancy sensor and stainless steel mounting hardware.
### Wet Location

**92 & 93 Series**

Fully enclosed for dust and moisture resistance; also available UL listed for wet locations. Seamless gasket poured and formed in place ensures a tight seal. Stippled lens diffuses the lamp image. Ideal for food processing, car washes, under canopies, and cold storage facilities.

- Captive suitcase-type latches ensure tight seal and reduce installation time and maintenance.
- NSF/ANSI Standard 2–Splash Zone certified.
- Dust and moisture resistant.
- Seamless thermo-set polyurethane gasket poured and formed in place to ensure tight seal.
- Ballast(s) secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- This fixture is proudly made in the USA.

### 95 Series

The 95 enclosed industrial fixture is the perfect lighting solution for areas that are plagued by dust and moisture. Combining form and function, and just over 4" in height, the 95 is available in 2' and 4' lengths.

Featuring a durable fiberglass housing with a poured and formed gasket to ensure a seal that won’t be compromised by dust and moisture, the 95 is designed with the same high quality that has long been a hallmark of H.E. Williams, Inc. To best suit your lighting needs, the low-profile, polycarbonate, vacuum-formed diffuser is designed to minimize glare.
96 Series

Polycarbonate diffuser and toggle latches are standard features for impact resistance. The 96 is also available with a high-impact acrylic (HIA) diffuser for maximum protection. Each of the diffusers are UV stabilized for extended life.

The 96 is available with T5 or T8 lamps to provide a variety of lumen packages. Optional UL wet location listing and various mounting options allow the 96 to be used in many different applications.

Typical uses for enclosed industrial fixtures include parking garages, food processing and hose-down areas, exterior retail areas, car washes, manufacturing areas, etc. – essentially anywhere dust or water may be present.

97 Series

The fully enclosed 97 Series is designed to distribute light over a larger area, meeting specification requirements with fewer fixtures—an especially appealing feature in parking garage applications where access for maintenance may be an issue. Certified for NSF Splash Zone, IP65 and IP67, and UL approved for wet location when utilizing factory-installed watertight hub(s), the 97 is the ideal choice for illuminating parking garages, under-canopy locations, and hose-down areas.
ICEHBL & ICEHBT Series

The ICEHBL (linear) and ICEHBT (tandem), combine the power and endurance of induction's 100,000-hour lamp life with the durability of Williams' high quality construction to provide a worry-free, efficient industrial high bay.

- 100,000-hour lamp life significantly reduces maintenance where re-lamping is inconvenient or expensive.
- Optional energy-saving occupancy sensors available.
- Optional frame and lens or wireguard are securely attached with piano hinge.
- Induction lamps provide excellent lumen maintenance—70% at 60,000 hours.
- 100W and 150W systems operate in ambient temperatures as low as -40ºC/-40ºF.
- This fixture is proudly made in the USA.

ICETL12 Series

Williams' ICETL12 liquid-tight tube light offers up to 100,000 hours of quality illumination in a durable IP66, IP69K, and NSF splash zone-approved housing for wet locations. Optional occupancy sensors can be added for even greater efficiency in manufacturing, food processing, hose-down, and industrial applications.

- IP69K certified (176ºF water temperature at 1450 PSI @ 4 GPM).
- Auto-disconnect allows for make-or-break connection under load. Fully self-contained unit—including lamps and ballast(s)—slides out easily for maintenance or quick replacement of internal optical assembly.
- End cap design stabilizes fixture when placed on flat surface.
- Sleek, latch-free design remains secure during cleaning and minimizes accumulation of contaminants.
- This fixture is proudly made in the USA.

Induction Technology

H.E. Williams has been producing fixtures designed around induction lamping since the mid-nineties. With its ability to last at least four times longer than other lamp sources, dramatically reduce maintenance costs, and operate in the worst weather conditions, induction technology was just too relevant to ignore.

Now with nearly 20 years under our belt, we have become somewhat of an expert in the field. This experience has allowed us to go from a small diecast offering in one category to products in all three Williams' product lines. At up to 100,000 hours use with excellent color rendition and the ability to operate in extreme temperatures, Williams' growing offering of induction fixtures is ideal for both indoor and outdoor applications.

Induction is proven technology that, with H.E. Williams' experience and innovative design, will continue to make a name for itself as a superior, longstanding, affordable alternative for the forward-thinking customer.
ICEILN Series

The Induction Inline (ICEILN) combines 100,000-hour lamp life with our heavy-duty canopy mounting system to provide a versatile high-bay luminaire. The ICEILN is suitable for warehouses, gymnasiums, swimming pools and other applications where maintenance is costly or inconvenient.

- Surface mounted canopy provides a clean, finished appearance while concealing ballast(s) and wiring.
- Multiple mounting options secure to canopy including rigid or swivel pendant and adjustable elbow.
- Custom pendant lengths from 12" to 48" are available with swivel mount option.
- Adjustable elbow mount option can be used for wall or sloped ceiling applications, allowing light to be directed where needed.
- This fixture is proudly made in the USA.

ICELB32 Series

The 32" round ICELB32 utilizes induction technology to provide 100,000-hour lamp life. Standard with two 150-watt induction lamps which produce 24,000 total lumens. Use in higher ceiling areas as an alternative to low bay lighting.

- Induction lamps provide excellent lumen maintenance—70% at 60,000 hours.
- Lamps are available in 3500K and 4100K color temperatures.
- 80 color rendering index (CRI).
- Instant-on/instant-restrike.
- Clear, prismatic acrylic drop diffuser provides uniform illumination.
- Special air flow design provides thermal management.
- Low 16" profile when ordered with standard 4" pendant mount.
- This fixture is proudly made in the USA.
**Extreme Temperature**

**HL65 Series**

Designed to perform well in warehouses or manufacturing applications with maximum ambient temperatures up to 65°C/149°F*, the HL65 enhances our existing HL Channel High Bay series. Other features include a quick-wire access plate, easy ballast access, and various mounting and distribution options.

- Shallow fixture depth of less than 4” allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
- Narrow or wide distribution options available.
- Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply.
- Amalgam lamps are recommended for optimal performance.
- This fixture is proudly made in the USA.

* HL65 6-lamp rated for 60°C ambient, HL65 8-lamp rated for 55°C ambient. See specification sheets for details.

**FZL Series**

Williams’ FZL Freezer Light meets the challenge of cold head-on. Designed to out-perform standard fluorescent high bays in freezers, warehouses, or other unheated spaces, the FZL thrives in extremely cold conditions as low as -29°C (-20°F).

Like any serious competitor, the FZL comes prepared for a strong performance: a steel fixture housing and double-gasketed lens maximize heat retention, T5HO lamps maintain 95% of their original output, paint-after-fabrication eliminates sharp edges, and spring-loaded cam latches provide years of hassle-free maintenance.

As a proud member of the Williams Fluorescent team of quality-constructed, high-performance, industrial high bay fixtures, the FZL embraces the cold temperature challenge, giving you the competitive edge.
80 and 81 Series
For light industrial applications and low to medium mounting heights, the 80 and 81 Series accommodate up to three T8 lamps and feature shallow reflectors for broad, downward light distribution. The 80 Series offers a low 4-3/8” profile while the 81 Series is less than 5-1/2” deep. Specify the uplight option (UL) for an upward component to illuminate the ceiling above.
• Over 95% optical efficiency.
• Factory-mounted prewired sockets and hinging/locking lamp brackets reduce installation time.
• One quarter-turn fastener secures reflector and housing. Ribbed channel provides extra strength and durability (81 Series only).
• Channel connector furnished for continuous row applications.
• This fixture is proudly made in the USA.

82 and 83 Series
Spring-loaded, turret style sockets are enclosed in heavy-duty steel housing. The channel is ribbed for extra durability. Heavy-gauge ribbed reflector with a 10% uplight component illuminates the ceiling to eliminate the “cave effect”.
• Up to 90% optical efficiency.
• White porcelain reflector for maximum durability.
• Heavy-duty ribbed reflector with uplight component–illuminates the ceiling for increased efficiency.
• Spring-loaded, turret style sockets enclosed in heavy-duty steel housing.
• Hinging/locking lamp bracket reduces installation time.
• Two heavy-duty, spring-loaded quarter-turn fasteners secure reflector to housing.
• This fixture is proudly made in the USA.

81 Series
Utility

84 Series
The compact 84 Series utilizes T5 and T5HO lamps to achieve greater optical efficiency. Broad distribution reflector provides general illumination at lower mounting heights (10’-15’). Optional uplight apertures in the reflector illuminate the ceiling. An excellent fixture for task lighting in confined spaces.
- Up to 97.2% optical efficiency.
- Factory-mounted, prewired sockets reduce installation time.
- Ballast(s) secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- This fixture is proudly made in the USA.

85 Series
- Up to 92.7% optical efficiency.
- Heavy-duty ribbed reflector with 16% uplight component—illuminates the ceiling for increased efficiency.
- The V-style reflector provides added lamp protection and greater cutoff.
- Spring-loaded, turret style sockets enclosed in heavy-duty steel housing.
- Hinging/locking lamp bracket reduces installation time.
- Reflector secured to housing with captive bolts and nuts.
- Channel connector furnished for continuous row of 8’ units.
- Ballast(s) secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- This fixture is proudly made in the USA.
88 Series

1- or 2-lamp T5HO or T8 industrial with highly specular aluminum reflector provides narrow distribution for efficient illumination of narrow aisles. The 88 Series has up to 98.2% optical efficiency and is available in 4’ or 8’ lengths with a variety of mounting options for an energy saving alternative to HID—half the energy!

• This fixture is proudly made in the USA.

91 Series

• UV stabilized polycarbonate diffuser for many years of trouble free operation.
• Closed-cell gasketing between housing and diffuser ensures tight, reliable fit.
• Injection-molded, UV stabilized diffuser completely encloses external housing for attractive appearance and vandal resistance.
• Tamper-resistant screws (holt head #8-32) standard to deter unauthorized entry into fixture. (Tamper-resistant tool must be ordered separately.)
• This fixture is proudly made in the USA.