

INDOOR HID

The products in this section offers a wide selection of indoor products to address high-mount and lowmount lighting applications.

The Industrial lighting withstands vibration, dirt, heat, moisture and corrosiveness while providing proper levels of efficient illumination. The commercial lighting provides a bright, cheerful and relaxed atmosphere that enhances customer and worker comfort. The recreational lighting delivers glare-free illumination so that playing surfaces and the surrounding environment are adequately illuminated for spectator and player safety.



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Control Systems

Multi-Level Lighting

KW: KiloWatch Control Systems

Pulse Start H.I.D. Lighting

RLB: Regulated Lag Ballast (Please contact our sales office)

LLRPSL: Linear Reactor (Please contact our sales office)

High Bay

Acrylume Acrylic

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Low Bay

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Hi-Tek Aluminum

TXF: Premium Enclosed NSF Certified Optical

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TXL-TXP: Premium Enclosed Aluminum Optical

TXS: Premium Enclosed Aluminum Optical

TXD: Enclosed Aluminum Optical, Distributor Pack

TXC: Enclosed Aluminum Optical

SX: Enclosed Aluminum Optical

TGL-TGR: Enclosed Prismatic Acrylic Optical

TG: Shroud with Lens

Recessed

General Area Squares

G: Recessed Lensed

GP: Recessed Louvered

Special Applications

Dock Lights

DS: Dock and Trailer Lighting

KW: KiloWatch Control Systems

Intended Use:

Ideal for warehouses, storage areas, parking garages, shipping docks and gymnasiums.

Features:

KWTD – Solid-state, digital timing circuit that automatically provides full power to each lamp for 15 minutes, guaranteeing lamp stabilization. This component is used in 120V AC manually switched or 120V AC photocell (KWPC) applications.

KWTXTD – Provides 120V AC power for the control circuit and a solid-state, digital timing lamp stabilization circuit for 208/240/277/347/480V AC manually switched and 208/240/277/347/480V AC photocell systems. Each KWTXTD can power up to 30 fixtures.

KWIR – Passive infrared motion sensor that switches lighting fixture control relays based on occupancy. Sensor detects moving temperature differentials against background radiation. When occupancy is detected, lighting system is switched to full output until no occupancy is detected (one to 15 minutes, field adjustable). Sensor is factory-preset at optimum performance angle (43°) and can be field-adjusted. Sensor is designed for use in indoor applications with 15-foot to 35-foot mounting heights where a long, narrow coverage pattern is desired. The wide angle sensor is designed for use in indoor applications with 7' to 8' mounting heights where a short, wide coverage pattern is desired.

KWTX – Control voltage transformer provides 120V AC power for the control circuit for 208/240/347/480V AC sensor applications. Each KWTX can power up to 30 fixtures.

KWPC – KWPC photo-diode sensors are specifically for use with the KiloWatch control system. Sensors designed to switch luminaires to low output based on predetermined ambient illumination levels.

KiloWatch only available in CWA/SCWA ballast configurations.

KiloWatch Option Designations:

KW1 – Indicates luminaire will be supplied with 120V AC control components. For use with all manually switched* and photocell systems (120/208/240/277/347/480V). AC sensor controlled systems (120/208/240/347/480V). Reduces wattage by 50%.

KW150 – Indicates luminaire will be supplied with 120V AC control components. For use with all manually switched* and photocell systems (120/208/240/277/347/480V). AC sensor controlled systems (120/208/240/347/480V). Reduces light output by 50%.

KW4 – Indicates luminaire will be supplied with 277V AC control components. For use with 277V AC sensorcontrolled systems. Reduces wattage by 50%.

KW450 – Indicates luminaire will be supplied with 277V AC control components. For use with 277V AC sensorcontrolled systems. Reduces light output by 50%.



KWTD	Dual Level Lighting, Time Delay Control (KWTD)	09/04
KWPC	Dual Level Lighting, Photocell (KWPC)	09/04
KWIR	Dual Level Lighting, Motion Detector (KWIR)	08/04
KWTX	Dual Level Lighting, Control Voltage Transformer (KWTX)	09/04
KWTXTD	Dual Level Lighting, Control Voltage Transformer with Time Delay (KWTXTD)	09/04
KW1S-KW150S	Multi-Level Lighting, Integral Sensor System (KW1S/KW150S)	08/04

THR: Open Acrylic Optical

Intended Use:

For high mounting heights that require higher efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high vertical footcandles while maintaining low brightness. Optical assembly is fully adjustable and accommodates a range of light distributions, while providing approximately 15–20% uplight. Open opticals are self cleaning – ventilated design carries contaminants out top of refractor. Enclosed optical utilizes clear, tempered-glass lens. Hinged and latched for easy maintenance. Coated lamps provide optimum performance.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.



Indoor HID: International 50HZ Products

THR-PA22E-INT	22" Open or Lensed Acrylic - 175-250W Metal Halide (THR 250M PA22E 23050HZ)	10/02
THR-PA22-INT	22" Open or Lensed Acrylic - 400W Metal Halide (THR 400M PA22 23050HZ)	10/02
THR-PA25-INT	22" Open or Lensed Acrylic - 1000W Metal Halide (THR 1000M PA25 23050HZ)	10/02

Indoor HID: Open High Bay

THR 400S-PA22-PA22L	22" Open or Lensed Acrylic, 400W High Pressure Sodium (THR 400S)	07/02
THR 250-400S PA22N	22" Premium Open Acrylic, 250W High Pressure Sodium (THR 250S PA22N)	07/02
THR 1000S PA25	25" Open Acrylic, 1000W High Pressure Sodium (THR 1000S PA25)	07/02
THR 250M PA22E	22" Lensed Acrylic, 250W Metal Halide (THR 250M PA22E)	07/02
THR 400M PA22-PA22L	22" Open or Lensed Acrylic, 400W Metal Halide (THR 400M)	07/02
THR 400M PA22N	22" Premium Open Acrylic, 400W Metal Halide (THR 400M PA22N)	07/02
THR 400M PA22SP	22" Premium Open Acrylic, 400W Metal Halide (THR 400M PA22SP)	07/02
THR 1000M PA25	25" Open Acrylic, 1000W Metal Halide (THR 1000M PA25)	07/02

SH PA22: Open Acrylic Optical, Electronic Ballast

Intended Use:

For high mounting heights that require higher efficiencies, high horizontal/vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high horizontal footcandles while maintaining low brightness. Optical assembly is fully adjustable, accommodates a range of light distributions while providing approximately 15–20% uplight. Selfcleaning, ventilated design carries optical contaminants out top of refractor. Coated lamps provide optimum performance.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box threaded for 3/4" conduit available. For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.



Indoor HID: Open High Bay
SH-PA22

22" open, steel ballast housing, 320-400W MH (SH M)

02/04

TPG: Premium Open Glass Optical

Intended Use:

For high mounting heights that require high efficiencies, horizontal and vertical illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

PG16 and PG21 Optics – High-efficiency, highperformance, heat-resistant borosilicate glass reflector/refractor mounted within a heavy-gauge wire form. Yields high vertical footcandles with low brightness and superior contrast control. Self-cleaning, ventilated design carries optical contaminants out through top of reflector/refractor.

PG16A and PG21A Optics – High-efficiency, highperformance, heat-resistant borosilicate glass reflector/refractor with aluminum shroud to protect glass prisms from dirt accumulation, emphasizing downward efficiency. Self-cleaning, ventilated design carries optical contaminants out through top of reflector/refractor.

Installation – Cast-aluminum pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings:

UL Listed to U.S. and Canadian safety standards.

NOM Certified. UL listed for damp locations.

Ambient operation: -30°C to 55°C (65°C optional).



Indoor HID: International 50HZ Products

TPG-PG16-INT	16" Premium Open - 250/400W Metal Halide or High Pressure Sodium (TPG 400M PG16 C 23050HZ)	10/02
TPG-PG21-INT	21" Premium Open - 400/1000W High Pressure Sodium (TPG 1000M PG21 C21 23050HZ)	10/02

Indoor HID: Open High Bay

TPG 250-400S PG16	16" Premium Open, 250W and 400W High Pressure Sodium (TPG PG16)	08/02
TPG 250-400S PG16A	16" Premium Open Shrouded, 250W and 400W High Pressure Sodium (TPG PG16A)	08/02
TPG 400S PG21	21" Premium Open, 400W High Pressure Sodium (TPG 400S PG21)	08/02
TPG 1000S PG21	21" Premium Open, 1000W High Pressure Sodium (TPG 1000S PG21)	08/02
TPG 400S PG21A	21" Premium Open Shrouded, 400W High Pressure Sodium (TPG 400S PG21A)	08/02
TPG 1000S PG21A	21" Premium Open Shrouded, 1000W High Pressure Sodium (TPG 1000S PG21A)	08/02
TPG 400M PG16	16" Premium Open, 400W Metal Halide (TPG 400M PG16)	01/05
TPG 400M PG16A	16" Premium Open Shrouded, 400W Metal Halide (TPG 400M PG16A)	01/05
TPG 400M PG21	21" Premium Open, 400W Metal Halide (TPG 400M PG21)	01/05
TPG 1000M PG21	21" Premium Open, 1000W Metal Halide (TPG 1000M PG21)	01/05
TPG 400M PG21A	21" Premium Open Shrouded, 400W Metal Halide (TPG 400M PG21A)	01/05
TPG 1000M PG21A	21" Premium Open Shrouded, 1000W Metal Halide (TPG 1000M PG21A)	01/05

TPGE: Premium Enclosed Glass Optical

Intended Use:

For high mounting heights that require high efficiencies, horizontal and vertical illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail, warehouse aisles and gymnasiums.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

PG16GLE and PG21GLE Optics – High-efficiency, high performance heat-resistant borosilicate glass reflector/refractor mounted within a heavy-gauge rigid wire form. Yields high vertical footcandles with low brightness and superior contrast control. Cast-aluminum upper enclosure, corrosion-resistant steel flange and clear tempered glass lens are fully gasketed. Lens assembly hinged and latched for easy maintenance.

PG16AGLE and PG21AGLE Optics – High-efficiency, high performance heat-resistant borosilicate glass reflector/refractor mounted within a heavy-gauge rigid wire form. Aluminum shroud protects glass prisms from dirt accumulation, emphasizing downward efficiency. Cast aluminum upper enclosure, corrosion-resistant steel flange and clear tempered glass lens are fully gasketed to inhibit entrance of ambient contaminants. Lens assembly hinged and latched for easy maintenance.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Listings:

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C (65°C optional).



Indoor HID: Enclosed High Bay

TPGE-250-400S-PG16GLE	16" Premium Enclosed, 250W and 400W high pressure sodium (TPGE S PG16GLE)	08/03
TPGE-250-400S-PG16AGLE	16" Premium Shrouded, 250W and 400W high pressure sodium (TPGE S PG16AGLE)	08/03
TPGE-400S-PG21GLE	21" Premium Enclosed, 400W high pressure sodium (TPGE 400S PG21GLE)	08/03
TPGE-1000S-PG21GLE	21" Premium Enclosed, 1000W high pressure sodium (TPGE 1000S PG21GLE)	08/03
TPGE-400S-PG21AGLE	21" Premium Shrouded, 400W high pressure sodium (TPGE 400S PG21AGLE)	08/03
TPGE-1000S-PG21AGLE	21" Premium Shrouded, 1000W high pressure sodium (TPGE 1000S PG21AGLE)	08/03
TPGE-250-400M-PG16GLE	16" Premium Enclosed, 250W and 400W metal halide (TPGE M PG16GLE)	08/03
TPGE-250-400M-PG16AGLE	16" Premium Shrouded, 250W and 400W metal halide (TPGE M PG16AGLE)	08/03
TPGE-400M-PG21GLE	21" Premium Enclosed, 400W metal halide (TPGE 400M PG21GLE)	08/03
TPGE-1000M-PG21GLE	21" Premium Enclosed, 1000W metal halide (TPGE 1000M PG21GLE)	08/03
TPGE-400M-PG21AGLE	21" Premium Shrouded, 400W metal halide (TPGE 400M PG21AGLE)	08/03
TPGE-1000M-PG21AGLE	21" Premium Shrouded, 1000W metal halide (TPGE 1000M PG21AGLE)	08/03

Indoor HID: International 50HZ Products

TPGE-INT	16" or 21" Premium - Metal Halide or High Pressure Sodium (TPGE 1000M PG21AGLE C21 23050HZ)	10/02
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SPG: Open Glass Optical, Electronic Ballast

Intended Use:

For high mounting heights that require high efficiencies, horizontal and vertical illumination and premium contrast control. Ideal for retail and warehouse applications. Steel ballast housing (SPG) should be used in areas with minimal airborne contaminants.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector/refractor. Standard optical is mounted with a heavy-gauge rigid wire form. Optical is self-cleaning. Ventilated design carries optical contaminants out through top of reflector/refractor.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with other mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C.



TE: Premium Enclosed Aluminum Optical

Intended Use:

For high-mounting heights that require high efficiencies, horizontal illumination, premium glare control and total enclosure. Ideal for heavy manufacturing areas, gymnasiums and wet location applications.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sunk to ballast housing for cool operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece, totally enclosed-and-gasketed spun aluminum, anodized reflector combines high efficiency with extended shielding angle for high-performance optical control. Exclusive fluting design minimizes arc tube voltage rise. Gasketed, clear, tempered-glass lens inhibits the entrance of ambient contaminants. Hinge and lens retainer latches for tool-less access.

Installation – Pendant splice box is threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings:

UL Listed to U.S. and Canadian safety standards.

NOM Certified. UL listed for damp locations.

Ambient operation: -30°C to 55°C. (65°C optional).



Indoor HID: Enclosed High Bay

TE-250-400S-E17-E22	17" and 22" Premium Enclosed, 250W and 400W High Pressure Sodium (TE S)	08/03
TE-1000S-E22	22" Premium Enclosed, 1000W High Pressure Sodium (TE 1000S E22)	08/03
TE-250-400M-E17-E22	17" and 22" Premium Enclosed, 250W and 400W Metal Halide (TE M)	08/03
TE-1000M-E22	22" Premium Enclosed, 1000W Metal Halide (TE 1000M E22)	08/03

Indoor HID: International 50HZ Products

TE-E17-INT	17" Premium Enclosed - Metal Halide or High Pressure Sodium (TE 250S E17M 12050HZ)	10/02
TE-E22-INT	22" Premium Enclosed - Metal Halide or High Pressure Sodium (TE 1000M E22M 23050HZ)	10/02

THV: Premium Open Aluminum Optical

Intended Use:

For high-mounting heights that require high efficiencies, horizontal illumination and vertical illumination. Ideal for manufacturing and warehouse aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and vertical illumination.

Installation – Pendant splice box is threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C. (65°C optional).



Indoor HID: Open High Bay
THV 250-400S A14
THV 400M A14

14" Premium Open, 250W and 400W High Pressure Sodium (THV A14)
14" Premium Open, 400W Metal Halide (THV A14)

07/02
07/02

SH A14: Premium Open Aluminum Optical, Electronic Ballast

Intended Use:

For high mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – One-piece, hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and high illumination.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.



THP: Premium Open Aluminum Optical

Intended Use:

For high mounting heights that require high efficiencies, horizontal illumination and premium glare control. Ideal for manufacturing areas and aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cool operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – Premium spun aluminum, anodized reflector combines high efficiency with extended shielding angles for high performance. Exclusive fluted design minimizes arc tube voltage rise. Optical system is adjustable and accommodates the full range of industrial light distributions. Self-cleaning, ventilated design carries optical contaminants out through open top of reflector.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C. (65°C optional).



Indoor HID: International 50HZ Products

THP-INT	22" Premium Open - 1000W Metal Halide or High Pressure Sodium (THP 1000M A22 12050HZ)	10/02
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Indoor HID: Open High Bay

THP 250-400S A17	17" Premium Open, 250W and 400W High Pressure Sodium (THP 250-400S A17)	07/02
THP 1000S A22	22" Premium Open, 1000W High Pressure Sodium (THP 1000S A22)	07/02
THP 400M A17	17" and 22" Premium Open, 400W Metal Halide (THP 400M)	07/02
THP 1000M A22	22" Premium Open, 1000W Metal Halide (THP 1000M A22)	07/02

THS: Open or Enclosed Aluminum Optical

Intended Use:

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased-and-potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arctube voltage rise for optimal lamp life. Open opticals are self cleaning with a ventilated design that carries contaminants out top of reflector.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C. (65°C optional).
A16GL meets UL lamp rupture containment specifications.



Indoor HID: International 50HZ Products

THS-A16-INT	16" Open, 250-400W Metal Halide or High Pressure Sodium (THS 250S A16GL 23050HZ)	10/02
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Indoor HID: Open High Bay

THS 250-400S A16	16" Open, 250W and 400W High Pressure Sodium (THS A16)	06/02
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THS 250-400S A16GL	16" Lensed, 250W and 400W High Pressure Sodium (THS A16GL)	06/02
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THS-400M-A16	16" Open, 400W Metal Halide (THS 400M A16)	02/03
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THS 250-400M A16GL	16" Lensed, 250W and 400W Metal Halide (THS A16GL)	06/02
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SH A16: Open or Enclosed Aluminum Optical, Electronic Ballast

Intended Use:

For high mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arctube voltage rise for optimal lamp life. Open opticals are self-cleaning, with a ventilated design that carries contaminants out top of reflector.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with other mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C.
A16GL meets UL lamp rupture containment specifications.



THD: Open Aluminum Optical, Distributor Pack

Intended Use:

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased-and-potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arctube voltage rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C. (65°C optional).



Indoor HID: Open High Bay

THD 250-400S A15	15" Open, 250W and 400W High Pressure Sodium (THD A15)	06/02
THD 250-400S A16	16" Open, 250W and 400W High Pressure Sodium (THD A16)	06/02
THD 250-400S A16GL	16" Lensed, 250W and 400W High Pressure Sodium (THD A16GL)	06/02
THD 400M A15	15" Open, 400W Metal Halide (THD 400M A15)	06/02
THD 400M A16	16" Open, 400W Metal Halide (THD 400M A16)	06/02
THD 250-400M A16GL	16" Lensed, 250W and 400W Metal Halide (THD A16GL)	06/02

THC: Open Aluminum Optical

Intended Use:

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased-and-potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arctube voltage rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C. (65°C optional).



Indoor HID: International 50HZ Products

THC-INT 15" Open, 250-400W (THC 400M A15 23050HZ)

10/02

Indoor HID: Open High Bay

THC 250-400S A15 15" Open, 250W and 400W High Pressure Sodium (THC A15)

06/02

THC 400M A15 15" Open, 400W Metal Halide (THC 400M A15)

06/02

SH A15: Open Aluminum Optical, Electronic Ballast

Intended Use:

For high mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc tube voltage rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
Ambient operation: -30°C to 55°C.



TXR: Premium Enclosed Acrylic Optical

Intended Use:

For controlled environments that require vertical and high horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic reflector with clear, tempered glass lens enclosure (PA22GLE), clear, flat acrylic lens enclosure (PA25ALE), or injection-molded, virgin acrylic reflector with drop lens (PA25D) or conical lens (PA22C). UV-stabilized reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG (full wireguard) option. Not recommended for use in oily environments. Consult factory.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell & center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.

NOM Certified. UL listed for damp locations. -30°C to 40°C ambient operations.



Indoor HID: Enclosed High Bay		
TXR-PA25ALE-250-400M	25" 250-400W Metal Halide (TXR 250-400M PA25ALE)	10/01
Indoor HID: International 50HZ Products		
TXR-PA22C-INT	22" Premium Encl. - Conical Lens - Metal Halide or High Pressure Sodium (TXR 400M PA22C 120 50HZ)	10/02
TXR-PA22C-INT	22" Premium Encl. - Conical Lens - 250-400W (TXR 400M PA22C 120)	10/02
TXR-PA25ALE-INT	22" Premium Encl. - Conical Lens - 175-400W (TXR 250M PA25ALE 120)	10/02
Indoor HID: Low Bay		
TXR 250-400S PA22C	22" Premium Encl. - Conical Lens - 250-400W High Pres. Sodium (TXR S)	05/03
TXR 250_400S PA22GLE	22" Premium Encl. - Flat Lens - 250-400W High Pres. Sodium (TXR S)	05/03
TXR 250_400S PA25D	22" Premium Encl. - Drop Lens - 250-400W Metal Halide (TXR S)	05/03
TXR 250_400M PA22C	22" Premium Encl. - Conical Lens - 250-400W Metal Halide (TXR M)	10/03
TXR 250_400M PA22GLE	22" Premium Encl. - Flat Lens - 250-400W Metal Halide (TXR M)	05/03
TXR 250_400M PA25D	22" Premium Encl. - Drop Lens - 250-400W Metal Halide (TXR M)	10/03

SX-PA22: Enclosed Acrylic Optical

Intended Use:

For areas with low mounting heights that require high efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged octagonal steel housing provides structural strength and pleasing aesthetics. Center-mounted ballast is heat-sinked and all electrical components are positioned within the vented housing for cooler operation.

Finish – Electrostatically applied white polyester powder paint.

Optics – Injection-molded virgin UV-stabilized acrylic reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor inhibit the entrance of ambient contaminants into optical assembly. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance. See lamp compatibility matrix for coated lamps.

Electronic Ballast – Electronic ballast is 100% factory tested and UL listed. Ballast will operate pulse start lamps only from 200V - 277V, 50/60 Hz.

Installation – Integral rapid-latch steel hook provided with Reloc® or cord assembly. Optional pendant splice box (PSB) for 3/4" conduit also available with mounting options.

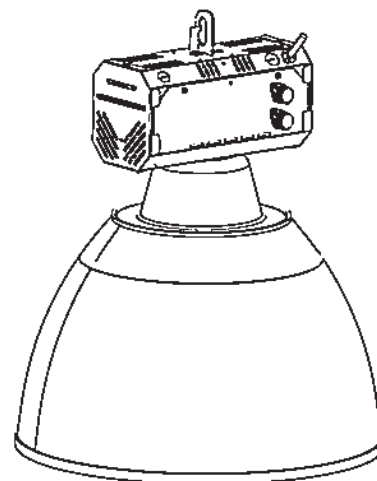
Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screws, shell and center contact. UL listed 1500W, 600V and 4KV pulse rated.

Listings:

UL listed to us and Canadian safety standards.

UL listed for damp locations.

-30°C to 40°C ambient operation. 55°C available for PA25ALE optical only.



TXF: Premium Enclosed NSF Certified Optical

Intended Use:

For general area illumination of food processing and hose-down areas requiring high efficiencies, horizontal illumination, premium glare control, ease of cleanability, compliance to FDA/USDA requirements and/or NSF splash-zone certification.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Fully gasketed, heavy-duty, die-cast copper free (<0.4%) aluminum ballast housing. Finish meets FDA CFR 21 175.300 for resinous and polymeric coatings. Electrostatically applied white polyester powder paint. Electrical components heat-sinked and horizontally opposed. External hardware is stainless steel or corrosionresistant with no exposed threads.

Ballast – Copper wound and 100% factory tested. CWA (constant wattage autotransformer) is standard. Meets ANSI C82 ballast standards for M57 lamps. UL listed.

Optics – PA25ALEF: Enclosed and gasketed, injectionmolded, UV stabilized, virgin acrylic reflector and flat lens. A30F: anodized aluminum and UV-stabilized virgin acrylic lens. Gasketed reflector and lens inhibit entrance of contaminants. Both meet UL lamp rupture containment specifications.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.

NOM Certified. UL listed for -30°C to 55° C ambient operation and wet locations.

NSF International certified splash-zone and meets FDA/USDA guidelines.

A30F is IP65 rated against ingress of water and contaminants and is suitable for high-pressure hosedowns up to 1200 psi.



Special Environments: Food Processing

TXF-A30F-250-400M_SE	30" Acrylic Low Bay, 250-400W MH (TXF M A30F)	12/03
TXF-PA25ALEF-250-400M_SE	25" Acrylic Low Bay, 250-400W MH (TXF M PA25ALEF)	12/03

Indoor HID: Low Bay

TXF-A30F-250-400M_I	30" enclosed aluminum, 250-400W MH, FDA/USDA and NSF splash zone (TXF M A30F)	12/03
TXF-PA25ALEF-250-400M_I	25" enclosed acrylic, 250-400W MH, FDA/USDA and NSF splash zone (TXF M PA25ALEF)	12/03

TXV: Enclosed Prismatic Acrylic Optical

Intended Use:

For areas that require high vertical illumination and wide spacings. Ideal for aisles, service areas and parking garages.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS and 100MH). High power factor, constant-wattage autotransformer. 180° C Class H insulation system. UL listed.

Optics – 12" Diameter: Anodized aluminum reflector with one-piece injection-molded acrylic refractor and bottom enclosure. 16" Diameter: High efficiency, optical-quality, white polyester powder finish with one-piece injectionmolded acrylic refractor and bottom enclosure. Polycarbonate lens available. Consult factory.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards. NOM Certified.
UL listed for damp locations and -30°C to 40°C ambient operation.
55°C available. UL wet location available, closed bottom only.



Indoor HID: International 50HZ Products

TXV-150-250-INT	12" Enclosed Type I - 150-250W (TXV 150S A165 12050HZ)	10/02
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Indoor HID: Low Bay

TXV150_200_250S A121OB	12" Enclosed - 150W - Open Bottom - 200-250W (Type I) High Pressure Sodium (TXV S)	05/03
TXV150_200_250S A125OB	12" Enclosed - 150 - Open Bottom - 200-250 (Type V) - Metal Halide (TXV S)	05/03
TXV100M A121_125	12" Enclosed Type I & V - 100W Metal Halide (TXV M)	05/03
TXV200_250SA162	16" Enclosed Type II - 200-250W High Pressure Sodium (TXV S)	05/03
TXV400SA162	16" Enclosed Type II - 400W High Pressure Sodium (TXV S)	05/03
TXV200_250SA165	16" Enclosed Type V - 200-250W High Pressure Sodium (TXV S)	05/03
TXV400SA165	16" Enclosed Type V - 400W High Pressure Sodium (TXV S)	05/03
TXV100_175M A162	16" Enclosed Type V - 100-175W Metal Halide (TXV M)	05/03
TXV250_400M A162	16" Enclosed Type II - 250-400W Metal Halide (TXV M)	05/03
TXV100_175M A165	16" Enclosed Type II - 100-175W Metal Halide (TXV M)	05/03
TXV250_400M A165	16" Enclosed Type V - 250-400W Metal Halide (TXV M)	05/03

TXL-TXP: Premium Enclosed Aluminum Optical

Intended Use:

For areas that require good vertical illumination with excellent glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS and 100MH). High power factor, constant-wattage autotransformer. 180° C Class H insulation system. UL listed.

Optics – Injection-molded virgin acrylic lens, fully fluted anodized aluminum reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. All distribution patterns are widespread.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse-rated.

Listings:

UL Listed to U.S. and Canadian safety standards.

NOM Certified.

UL listed -30°C to 40°C ambient operation and damp locations.

55°C operation available. UL wet location available.



Indoor HID: Low Bay

TXP-250-400S-A26

TXP-250-400M-A26

TXL-100-150S-A20

TXL-250S-A20

TXL-175-250M-A20

26" Premium Enclosed, 250W and 400W high pressure sodium (TXP S)

26" Premium Enclosed, 250W and 400W metal halide (TXP M)

20" Premium Enclosed, 100W and 150W high pressure sodium (TXL S)

20" Premium Enclosed, 250W high pressure sodium (TXL 250S)

20" Premium Enclosed, 175W and 250W metal halide (TXL M)

05/03

05/03

05/03

05/03

05/03

TXS: Premium Enclosed Aluminum Optical

Intended Use:

For areas that require high efficiencies, high horizontal and vertical illumination and good glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS and 100MH). High power factor. Constant-wattage autotransformer. 180° C Class H insulation system. UL listed.

Optics – Injection-molded virgin acrylic lens, fully fluted anodized aluminum reflector; exclusive spun-fluted anodized reflector. Hinge and lens retainer latches facilitate removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. All distribution patterns are widespread.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse-rated.

Listings:

UL Listed. CSA Certified. NOM Certified.

UL listed -30°C to 40°C ambient operation and damp locations.

55°C operation available. UL wet location available.



Indoor HID: International 50HZ Products

TXS-A30-INT

30" Premium Enclosed - 250-400W (TXS 250M A30 12050HZ)

10/02

Indoor HID: Low Bay

TXS-250-400S-A30

30" Premium Enclosed, 250W and 400W high pressure sodium (TXS S)

05/03

TXS-250-400M-A30

30" Premium Enclosed, 250W and 400W metal halide (TXS M)

05/03

TXD: Enclosed Aluminum Optical, Distributor Pack

Intended Use:

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate toolless removal for maintenance and cleaning. Inhibits entrance of outside contaminants. Meets UL lamp rupture containment specifications.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
-30°C to 40°C ambient operations.
55°C available. UL wet location available.



Indoor HID: Low Bay

TXD-250-400S-A23

TXD-250-400M-A23

23" Enclosed, 250W and 400W high pressure sodium (TXD S A23)

23" Enclosed, 250W and 400W metal halide (TXD M A23)

05/03

05/03

TXC: Enclosed Aluminum Optical

Intended Use:

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate toolless removal for maintenance and cleaning. Inhibits entrance of outside contaminants. Meets UL lamp rupture containment specifications.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
-30°C to 40°C ambient operations.
55°C available. UL wet location available.



Indoor HID: International 50HZ Products

TXC-A23-INT

23" Enclosed - 250-400W High Pressure Sodium (TXC 400M A23 12050HZ)

10/02

Indoor HID: Low Bay

TXC-250-400S-A23

23" Enclosed, 250W and 400W high pressure sodium (TXC S A23)

05/03

TXC-250-400M-A23

23" Enclosed, 250 and 400W metal halide (TXC M A23)

05/03

SX: Enclosed Aluminum Optical

Intended Use:

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Steel ballast housing should be used in areas with minimal airborne contaminants.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate toolless removal for maintenance and cleaning. Inhibits entrance of outside contaminants. Meets UL lamp rupture containment specifications.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with mounting options.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed to U.S. and Canadian safety standards.
NOM Certified. UL listed for damp locations.
-30°C to 40°C ambient operations for 400W metal halide.



TGL-TGR: Enclosed Prismatic Acrylic Optical

Intended Use:

For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles.

Consult [Acrylic Environmental Compatibility chart](#) at the end of this document for suitability of application.

Features:

Housing – Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

Ballast – Copper wound and 100% factory tested. Solidstate ignitors are encased and potted (HPS and 100MH). High-reactance, high power factor or constant-wattage autotransformer. 180°C Class H insulation system. UL 1029 listed.

Induction Power Coupler – Induction coil that transfers energy from the generator to the lamp.

Optics – One-piece, injection-molded, 100% virgin acrylic refractor. TGL Type V (A165), Type II (A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

Installation – Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamper-proof installation. Factory installed pendant-mount option (PM) available.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. Medium-base (100M only): UL listed 660W, 600V, 4KV pulse rated.

Listings:

TGL: UL Listed to U.S. and Canadian safety standards. NOM Certified.

TGR: UL Listed and CSA Certified. NOM Certified.

UL listed for damp locations.

-30°C to 40°C ambient rated 250W metal halide.

UL wet location available.



See next page for product listings

To learn more about B-I-A please visit us at our
WEB site: www.BiaGmbH.com



TGL-TGR: Enclosed Prismatic Acrylic Optical ... Continued

Outdoor: Parking Garage and Canopy

TGL70SA162_165_O	Low Bay Industrial Lighting (TGL70SA162-165_O)	08/03
TGL100SA162_165_O	Low Bay Industrial Lighting (TGL100SA162-165_O)	08/03
TGL150SA162_165_O	Low Bay Industrial Lighting (TGL150SA162-165_O)	08/03
TGL-175M-A162-165_O	Low Bay Industrial Lighting (TGL 175M)	12/03
TGL250MA162_165_O	Low Bay Industrial Lighting (TGL250MA162-165_O)	05/04
TGL-55-85-IL_O	Low Bay Industrial, 55W and 85W induction lighting (TGL IL)	09/04
TGR70_100SA121_125_O	Low Bay Industrial Lighting (TGR70-100SA121-125_O)	08/03
TGR100MA121_125_O	Low Bay Industrial Lighting (TGR100MA121-125_O)	08/03
TGR175MA121_125_O	Low Bay Industrial Lighting (TGR150MA121-125_O)	08/03

Indoor HID: International 50HZ Products

TGR-INT	13" Shroud With Lens - 150W High Pressure Sodium or 175W Metal Halide (TGR 150S A125 23050HZ LPI)	10/02
TGL-INT	16" Enclosed Type II and V - 150-250W (TGL 150S A165 12050HZ)	10/02

Indoor HID: Low Bay

TGR70_100SA121_125	12" Enclosed Type I and V - 70-100W High Pressure Sodium (TGR S)	05/03
TGR150SA121_125	12" Enclosed Type I and V - 150W High Pressure Sodium (TGR S)	05/03
TGR100MA121_125	12" Enclosed Type I and V - 100W Metal Halide (TGR M)	05/03
TGR175MA121_125	12" Enclosed Type I and V - 175W Metal Halide (TGR M)	05/03
TGL70SA162_165	16" Enclosed Type II and V - 70W High Pressure Sodium (TGL S)	05/03
TGL100SA162_165	16" Enclosed Type II and V - 100W High Pressure Sodium (TGL S)	05/03
TGL150SA162_165	16" Enclosed Type II and V - 150W High Pressure Sodium (TGL S)	05/03
TGL-175M-A162-165	16" Enclosed Type II and V - 175W Metal Halide (TGL 175M)	12/03
TGL250MA162_165	16" Enclosed Type II and V - 250W Metal Halide (TGL M)	05/04
TGL-55-85-IL_I	Low Bay Industrial, 55W and 85W induction lighting (TGL IL)	09/04

To learn more about B-I-A please visit us at our
WEB site: www.BiaGmbH.com



TG: Shroud with Lens

Intended Use:

For areas that require low mounting heights. Used in applications including parking garages, stairwells, entrances or aisles.

Features:

Housing – Rugged, heavy-duty aluminum housing. Standard finish is dark bronze polyester powder finish.

Ballast – Copper wound and 100% factory tested. Encased-and-potted, solid-state ignitors (HPS and 100MH). High-reactance, high power factor or constant wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece, spun-aluminum, anodized reflector provides widespread distribution. High-impact, shockresistant, tempered glass lens is fully gasketed to seal out contaminants.

Installation – Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamperproof installation. Internal trigger mechanism releases fixture from J-box. Factory installed pendant mount option (PSB) available.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. Medium-base: UL listed 660W, 600V, 4KV pulse rated; mogul-base: UL listed 1500W, 600V, 4KV pulse rated.

Listings:

UL Listed. CSA Certified. NOM Certified.
UL listed for damp locations.



Indoor HID: International 50HZ Products

TG-INT	13" Shroud With Lens - 150W High Pressure Sodium (TG 150S E13 23050HZ)	10/02
Indoor HID: Low Bay		
TG70_100SE13	13" Shroud With Lens - 70-100W High Pressure Sodium (TG S)	05/03
TG150SE13	13" Shroud With Lens - 150W High Pressure Sodium (TG S)	05/03
TG175_250ME13	13" Shroud With Lens - 175-250W Metal Halide (TG M)	05/03

G: Recessed Lensed

Intended Use:

Use in low mounting height areas that require optimum horizontal illumination with brightness control in hard ceiling and T-bar applications. Ideal for office, retail and commercial areas.

Features:

Housing – 20-gauge steel housing with high reflectance, white polyester powder paint.

Ballast – Copper wound and 100% factory tested. Prewired 7', 16-gauge leads and 90° connector, no flex. High Power Factor, constant-wattage autotransformer.

Optics – Anodized aluminum top reflector. Prismatic tempered glass lens. Horizontal units contain heat-treated glass refractor mounted below lamp to control brightness.

G1: Painted floating aluminum door with black reveal. Door attaches to housing assembly using T-hinges and two opposing cam latches for positive retention. G2: Full Door Assembly.

G3: Rough Service Door Assembly. Coated lamps provide optimum performance.

Installation – 2' nominal aperture. Power door contains all electrical components (Thermally activated insulation detector included). G1 and G2 power door swings down for easy access or can be removed for servicing. G3 uses four Phillips flathead retaining screws for positive retention. Overlapping flange available (GF).

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Position oriented socket on metal halide horizontal units.

Listings:

UL Listed. CSA Certified.

UL listed for recessed mounting and damp locations.



Indoor HID: Recessed

G1-3	2x2 floating door, acrylic prismatic lens, horizontal lamp (G1 A12)	09/99
G1	2x2 floating door, T73 prismatic lens, horizontal lamp (G1 T73)	09/99
G1V-1	2x2 floating door, Holophane #8224Y lens, vertical lamp (G1V 84Y)	09/99
G1V-2	2x2 floating door, acrylic prismatic lens, vertical lamp (G1V A12)	09/99
G1V	2x2 floating door, T73 prismatic lens, vertical lamp (G1V T73)	09/99
G2-1	2x2 full door, Holophane #8224Y lens, horizontal lamp (G2 84Y)	09/99
G2-2	2x2 full door, acrylic prismatic lens, horizontal lamp (G2 A12)	09/99
G2	2x2 full door, T73 prismatic lens, horizontal lamp (G2 T73)	09/99
G2-3	2x2 full door, Triumph lens, horizontal lamp (G2 T8)	09/99
G2V-1	2x2 full door, Holophane #8224Y lens, vertical lamp (G2V 84Y)	09/99
G2V-2	2x2 full door, acrylic prismatic lens, vertical lamp (G2V A12)	09/99
G2V	2x2 full door, T73 prismatic lens, vertical lamp (G2V T72)	09/99
G3-1	2x2 Rough Service Door Holophane #8224Y lens Horizontal lamp (G3 84Y)	09/99
G3-2	2x2 Rough Service Door Acrylic prismatic lens Horizontal lamp (G3 A12)	09/99
G3	2x2 Rough Service Door T73 prismatic lens Horizontal lamp (G3 T73)	09/99
G3V-1	2x2 Rough Service Door Holophane #8224Y lens Vertical lamp (G3V 84Y)	09/99
G3V-2	2x2 Rough Service Door Acrylic prismatic lens Vertical lamp (G3V A12)	09/99

GP: Recessed Louvered

Intended Use:

Use in areas that require optimum horizontal illumination with superior brightness control. Ideal for open office, retail and commercial areas.

Features:

Housing – 20-gauge steel housing with highreflectance, white polyester powder paint.

Ballast – Copper wound and 100% factory tested. Prewired 7', 16-gauge leads and 90° connector, no flex. High power factor, constant-wattage autotransformer. UL 1029 listed.

Optics – Specular clear parabolic 16-cell or 9-cell, 4" deep aluminum louvers float in the middle of a black reveal with clear tempered glass overlay. Coated lamps provide optimum performance.

Installation – 2' nominal aperture. Power door contains all electrical components. (Thermally activated insulation detector included.) Power door swings down for easy access or can be removed for servicing.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Position oriented socket on horizontal units.

Listings:

UL Listed. CSA Certified.

UL listed for recessed mounting and damp locations.



Indoor HID: Recessed

GP

2x2 Parabolic Louver Horizontal lamp

09/99

GPV

2x2 GPV Parabolic Louver Vertical lamp (GPV)

09/99

DS: Dock and Trailer Lighting

Intended Use:

Ideal for illuminating the interior of tractor trailers during initial inspection, loading or unloading.

Features:

DSA – Double-strut arm.

DSA ADJ – Double-strut arm with adjustable knuckle joint.

FSSA ADJ – Folding single-strut arm with adjustable knuckle joint.

Reinforcement brackets provide maximum support to arm and head for long service without sagging or bending.

Uses high-impact polycarbonate lamp head or heavygauge metal lamp head.

Construction – Arms and struts constructed of heavy-duty 1-½" cross-section, 14-gauge steel tubing. Corrosion resistant hardware. Nuts are locking and exposed threads are plastic capped. Arm and strut ends feature injectionmolded end caps. Hinged ends reinforced internally with aluminum inserts. Electrical cord lengths secured via grommets.

Finish – Safety-yellow polyester powder paint is standard on polycarbonate lamp heads, arm, struts and metal lamp head.

Optical System – Polycarbonate lamp head standard. All lamp heads include on/off switch and UL-listed porcelain, medium-base socket with copper alloy screw shell and center contact.

Electrical System – 120V only. HPS models feature reactor type ballasts.

Installation – Arm and strut-mounting bracket included. Arm assembly attached via bracket with one bolt. Lamp head attaches via a single bolt, electrified via a NEMA plug and receptacle assembly. Heavy-duty wall bracket recommended for fan/light combinations.

Listings:

UL Listed to U.S. and Canadian safety standards.



Indoor HID: Special Applications

DSA	Double-Strut Arm (DSA)	03/03
DSA-ADJ	Double-Strut Arm, Adjustable Knuckle (DSA ADJ)	03/03
FSSA-ADJ	Folding Single-Strut Arm, Adjustable Knuckle (FSSA ADJ)	03/03

Acrylic Environmental Compatibility Chart

Compound	Rating	Compound	Rating	Compound	Rating
2-Ethylhexyl Sebacate	A	Caustic Potash	A	Hydrogen Peroxide, 30%	N
Acetaldehyde, 100%	N	Cellulose Paints	N	Iron Perchloride	N
Acetates	N	Chlorinated Hydrocarbons	N	Isoctane	N
Acetic Acid, 5%	A	Chlorinated Solvents	N	Isopropyl alcohol	N
Acetic Acid, Glacial, 100%	N	Chlorine Based Cleaners	A	Kerosene	A
Acetic Anhydride	N	Chlorine Gas	N	Lacquer Thinner	N
Acetone	N	Chlorine, Aqueous, 2%	A	Lactic Acid	A
Acetonitrile	N	Chlorophenol	N	Lactic Acid Butyl Ester	N
Acetophenone	N	Chromic Acid, 40%	N	Mercury Chloride	N
Alcohol, Benzyl	N	Citric Acid, 10%	A	Meta-Cresol	N
Acrylic paints	N	Cloves	N	Metal Carbonates	A
Alcohol, Allyl	N	Coffee	N	Metal Chlorides	A
Alcohol, Amyl	N	Cooking Oil	A	Metal Sulfates	A
Alcohol, Ethyl, 100%	N	Cosmoline Removers	N	Methane gas	A
Alcohol, Ethyl, 50%	N	Cottonseed Oil	A	Methanol, 15%	N
Alcohol, Isopropyl, 100%	N	Cresol	N	Methanol, Concentrated	N
Alcohol, Methyl, 10%	N	Cyclohexane	N	Methyl Benzoate	N
Alcohol, Methyl, 100%	N	Cyclohexanone	N	Methyl Chloride	N
Alcohol, Methyl, 50%	N	Cyclohexene	N	Methyl Cyclohexanol	N
Alcohol, n-butyl	N	Detergent Solution	N	Methyl Ethyl Ketone	N
Ammonia-based Cleaners	A	Diacetone Alcohol	N	Methyl Naphthalene	N
Ammonia Gas	A	Diamyl Phthalate	N	Methyl Salicylate	N
Ammonium Hydroxide, 28%	A	Dibutyl Phthalate	N	Methylamine	N
Ammonium Nitrate	A	Dibutyl Sebacate	N	Methylene Dichloride	N
Ammonium Phosphate	A	Diethyl Ether	N	Milk	A
Amyl Acetate	N	Diethylene Glycol	A	Milk, Chocolate	A
Aniline	N	Dimethyl Formannicle	N	Motor Fuel Mixture, with Benene	N
Aniseed, Bay leaves, Nutmeg	A	Diocetyl Sebacate	N	Motor Fuel Mixture, without Benene	A
Anti-freeze	A	Dioxane	N	Nail Polish	N
Aviation Fuel (100 Octane)	N	Epoxy Adhesives	A	Naphtha	N
Bathroom Cleaners	N	Ether	N	Natural Gas	A
Beer	A	Ethyl Acetate	N	n-butyric Acid, 100%	N
Benzaldehyde	N	Ethyl Alcohol, 15%	A	Nitric Acid, 10%	A
Benzene	N	Ethyl Alcohol, Concentrated	N	Nitric Acid, 40%	N
Benzoic Aldehyde	N	Ethyl Bromide	N	Nitric Acid, 70%	N
Bleaching Powder Paste	A	Ethyl Butyrate	N		
Bleaching Powder Solution, 2%	A	Ethylene Bromide	N		
Brake Fluid	N	Ethylene Dibromide	N		
Bromine Gas	N	Ethylene Glycol E	A		
Butanol	N	Ethylene Oxide (Dry)	A		
Butraldehyde	N	Ethylene Oxide (Moist)	N		
Butyl Acetyl Ricinoleate	N	Ferric Chloride, Aqueous, 10%	A		
Butyl Stearate	N	Formaldehyde, Aqueous, 40%	A		
Calcium Hypochlorite	A	Fruit Juice	A		
Car Wash Detergent	A	Glass Cleaners	N		
Carbolic Acid	N	Glycerol	A		
Carbon Dioxide Gas	A	Glycol	N		
Carbon Disulfide	N	Heptane	A		
Carbon Disulphide	N	Hexane	A		
Carbon Disulfide	N	Hydrochloric Acid, 38%	A		
Carbon Monoxide Gas	A	Hydrogen Peroxide, 28%	N		

Rating is based on visual appearance at ambient temperature 68°F, 50% humidity.

LEGEND:**A - Acceptable****N - NOT RECOMMENDED****Consult factory where applicable.**

All technical information is believed to be accurate as of the date below.

Acrylic Environmental Compatibility Chart

Compound	Rating	Compound	Rating
Nitrobenzene	N	Sulfuric Acid, 30%	A
Nitrogen Dioxide Gas	A	Sulfuric Acid, 98%	N
Nitrogen Monoxide Gas	A	Sulfurous Acid, 5%	A
n-Octane	N	Sulfurous Acid, Concentrated	N
Olefinic Carboxylic Acids	A	Tartaric Acid, 50%	A
Oleic Acid	A	Tea	N
Olive Oil	A	Tincture of Iodine, 5%	N
Oxalic Acid, 100%	A	Toluene	N
Oxygen Gas	A	Transformer Oil	N
Ozone Gas	A	Transmission Fluid	A
Paint Removers	N	Trichloroethane	N
Paint Thinner	N	Trichloroacetic Acid	N
Paraffin, Medicinal	A	Trichloroethylene	N
Pepper, Cinnamon, Onions	A	Tricresyl Phosphate	A
Perchloroethylene	N	Triethyl Amine	A
Petroleum Ether (100-120C)	N	Turpentine	N
Phenols	N	Unleaded Gasoline	N
Phenol, Aqueous, 5%	N	Vegetable Oil	N
Phosphoric Acid, 10% @ 20C	A	Vinegar	A
Phosphoric Acid, 95% @ 20C	N	Water, Mineral Water	A
Photographic Baths	A	Wax Polish	A
Phthalates	N	White Spirit	A
Polishing Compounds	A	Whitewash	A
Potassium Chlorate	A	Wine	A
Potassium Cyanide	A	Xylene	N
Potassium Dichromate, 100%	A		
Potassium Hydroxide @ 20C	A		
Potassium Permanganate	A		
Potassium Sulfite	N		
Power Steering Fluid	A		
Propylene	A		
Pure-oil Paints	A		
Pyridine	N		
Silicone Oil	A		
Silver Nitrate	A		
Soap Solution	N		
Soap Suds	A		
Soda	A		
Sodium Carbonate, 2%	N		
Sodium Carbonate, 20%	N		
Sodium Chloride, 10%	A		
Sodium Cyanide	A		
Sodium Fluoride	A		
Sodium Hydroxide, 60%	A		
Sodium Nitrate	A		
Sodium Phosphate	N		
Sodium Thiosulphate, 40%	A		
Stearic Acid	A		
Sulfur Dioxide, Dry Gas	A		
Sulfur Dioxide, Liquid	N		

Rating is based on visual appearance at ambient temperature 68°F, 50% humidity.

LEGEND:

A - Acceptable

N - NOT RECOMMENDED

Consult Factory where applicable

Exposure of Acrylic (PMMA - Polymethylmethacrylate) materials to certain chemicals can cause deterioration of the material which may lead to crazing, cracking, and mechanical failure. Many of these chemicals can be vaporized and attack the acrylic as an airborne contaminant. In any application where the product would be exposed directly or indirectly to the **N** designated chemicals, the use of a different product is highly recommended, and prolonged exposure to these chemicals will void any warranty associated with the product.

All technical information is believed to be accurate as of the date below.