

## Enclosed Prismatic Acrylic Optical

# TGL TGR



## 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. **Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.**

## Features

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

**Ballast** – 100% factory tested. High power factor ballast with a minimum of class H insulation.

**Induction lighting:** High Frequency Generator/Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

**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.

**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.

**Discharge Vessel/Lamp** – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

## Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.

## Ordering Information

Series	Wattage	Optical <sup>2</sup>	
High pressure sodium <b>TGL</b>	<b>70S</b>	Type V <b>A165</b>	Type II <b>A162</b>
	<b>100S</b>	<b>A165</b>	<b>A162</b>
	<b>150S</b>	<b>A165</b>	<b>A162</b>
<b>TGR</b>	<b>70S</b>	<b>A125</b>	<b>A121</b>
	<b>100S</b>	<b>A125</b>	<b>A121</b>
	<b>150S</b>	<b>A125</b>	<b>A121</b>
Metal halide <b>TGL</b>	<b>100M</b>	<b>A165</b>	<b>A162</b>
	<b>175M</b>	<b>A165</b>	<b>A162</b>
	<b>200M</b>	<b>A165</b>	<b>A162</b>
	<b>250M<sup>1</sup></b>	<b>A165</b>	<b>A162</b>
<b>TGR</b>	<b>100M</b>	<b>A125</b>	<b>A121</b>
	<b>175M</b>	<b>A125</b>	<b>A121</b>
Induction <b>TGL</b>	<b>85IL</b>	<b>A165</b>	<b>A162</b>
	<b>55IL</b>	<b>A165</b>	<b>A162</b>

## Voltage

**120**  
**208<sup>3,4</sup>**  
**240<sup>4,5</sup>**  
**277**  
**347**  
**480<sup>4</sup>**  
**TB<sup>6</sup>**

## Ballast

Metal halide and high pressure sodium  
(blank) Standard magnetic ballast

Pulse Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

**LLRPSL** Linear reactor pulse start

**SCWA** Super constant wattage

autotransformer

See pages 384-385 for details.

## Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

## NOTES:

- 1 Not available with SCWA.
- 2 Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.
- 3 Requires CWI option in Canada. Only available in 250M.
- 4 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-150W.
- 5 220V and 240V, 50Hz and 60Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

Lamp/fixture data				
Wattage	Standard ballast	Weight lbs.	kg.	S/mtg. height
TGL Type V				
<u>High pressure sodium (mog/clear)</u>				
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
<u>Metal halide [med(100)/mog(175-250)/clear]</u>				
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
TGR Type V				
<u>High pressure sodium (mog/clear)</u>				
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
<u>Metal halide [med(100)/mog(175)/clear]</u>				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

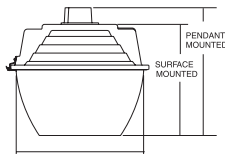
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

## TGL

Overall height: 13-3/8 (34)  
Diameter: 16-3/4 (42.5)

## TGL PM

Overall height: 15-1/2 (39.4)  
Diameter: 16-3/4 (42.5)

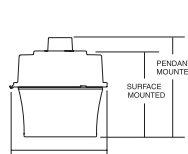


## TGR

Overall height: 11-1/4 (28.6)  
Diameter: 12-1/2 (31.8)

## TGR PM

Overall height: 13-3/8 (34)  
Diameter: 12-1/2 (31.8)



## Ambient Parameters

	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TGR		■	
TGL 100-175M			■
TGL 250M		■	
TGL 70-150S			■
TGL 55-85IL	■		

■ = COMPATIBILITY

## Options & Accessories

		Ships attached	Ships separately
<b>Universal power module hook and loop mounting</b>			
<b>LUCP</b>	Loop, cord and plug; for use with UPM <sup>1,2</sup>	●	
<b>LUCPSF</b>	LUCP, single fuse; dead front fusing; 120/277V only; for use with UPM <sup>1,2</sup>	●	
<b>LUCPDF</b>	LUCP, double fuse; dead front fusing; 208/240/480V only; N/A multi-tap ballast; for use with UPM <sup>1,2</sup>	●	
<b>UPM1</b>	Universal power module/hook adapter (specify voltage); luminaire requires LUCP, LUCPSF or LUCPDF		●
<b>Universal power module mounting</b>			
<b>UCP</b>	Universal cord and plug; for use with UPM <sup>1,2,3</sup>	●	
<b>UCPSF</b>	UCP with single fuse; dead front fusing; for use with UPM <sup>1,2,3</sup>	●	
<b>UCPDF</b>	UCP with double fuse; dead front fusing; for use with UPM <sup>1,2,3</sup>	●	
<b>UPM</b>	Universal power module (specify voltage); luminaire requires UCP, UCPSF or UCPDF		●
<b>Box mounting</b>			
<b>TOB</b>	Through-wire outlet box <sup>2</sup>		●
<b>TOBP</b>	Through-wire outlet box plug-in <sup>1,2</sup>	●	●
<b>PBP</b>	Pendant box plug-in <sup>1,2</sup>	●	●
<b>PSB</b>	Pendant splice box (steel box) <sup>2</sup>	●	
<b>PM</b>	Pendant splice box (die-cast aluminum box)	●	
<b>Mounting hooks and loops</b>			
<b>HKM</b>	Fixture hook, male		●
<b>HKF</b>	Fixture hook, female (3/4" threaded coupler)		●
<b>HKMG</b>	Grommited fixture hook, male		●
<b>LPM</b>	Fixture loop, male		●
<b>LPF</b>	Fixture loop, female (3/4" threaded coupler)		●
<b>LPMG</b>	Grommited fixture loop, male		●
<b>Mounting bars</b>			
<b>SMB18</b>	18" single-mounting bar; requires TR remote ballast option <sup>2,4</sup>		●
<b>SMB24</b>	24" single-mounting bar; requires TR remote ballast option <sup>2,4</sup>		●
<b>TMB30</b>	30" twin-mounting bar <sup>2</sup>		●
<b>TMB48</b>	48" twin-mounting bar <sup>2</sup>		●
<b>WB</b>	TG Series wall mounting bracket		●
<b>Wireguards</b>			
<b>WGA</b>	Wire guard for open Hi-Tek® high bay reflectors (specify reflector size 15, 16, 17 or 22)		●
<b>WGG</b>	Wireguard for enclosed high bay reflectors (add WG to catalog number)	●	
<b>WG</b>	Wire guard for Hi-Tek® low bays	●	
<b>LGA</b>	Louver guard for open Hi-Tek® high bays (specify reflector size 16, 17 or 22)		●
<b>LGG</b>	Louver guard for enclosed Hi-Tek® high bays (specify reflector size 17 or 22)		●
<b>WGP</b>	Wire guard for prismatic glass high bays (specify reflector size 16, 21, 16A or 21A)		●
<b>GFWG</b>	Full wire guard enclosed glass optic		●
<b>FWG</b>	Full wire guard for Acrylume® optics		●
<b>Decorative shades</b>			
<b>DCY</b>	Cylinder shade (specify reflector size and color) <sup>5</sup>		●
<b>DSQ</b>	Square shade (specify reflector size and color) <sup>5</sup>		●
<b>DHX</b>	Hexagonal shade (specify reflector size and color) <sup>5</sup>		●
<b>Paint options</b>			
<b>CR</b>	Enhanced corrosion-resistant finish (polyester), housing and reflector <sup>6</sup>	N/A	N/A
<b>CRT</b>	Non-stick protective coating, housing and reflector <sup>6</sup>	N/A	N/A
<b>Lamp options</b>			
<b>LPI</b>	Lamp shipped in carton with fixture (N/A with incandescent)	●	
<b>W/LAMP</b>	Lamp ships separately (N/A with incandescent)		●

### NOTES:

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Cannot be combined with (WL) wet location option.
- 3 Available 120V or 347V only in Canada.
- 4 Requires (TR) remote ballast option.
- 5 Pendant mount on rigid conduit. Not for use with any self-leveling hanger.
- 6 Consult factory for environmental compatibility.
- 7 Requires (PM) pendant splice box option.
- 8 Must be ordered with (GL17/GL22) tempered glass lens door enclosure.
- 9 Housing only.

### Optional Architectural Colors

<b>DNA</b>	Natural aluminum
<b>DSB</b>	Steel blue
<b>DMB</b>	Medium bronze
<b>DTG</b>	Tennis green
<b>DSS</b>	Sandstone
<b>DBL</b>	Black
<b>DWH</b>	White
<b>DGC</b>	Charcoal gray
<b>DBR</b>	Bright red
<b>DDB</b>	Dark bronze

## Enclosed Prismatic Acrylic Optical

# TGL TGR



## 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. **Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.**

## Features

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

**Ballast** – 100% factory tested. High power factor ballast with a minimum of class H insulation.

**Induction lighting:** High Frequency Generator/ Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

**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.

**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.

**Discharge Vessel/Lamp** – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

## Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.

## Ordering Information

Series	Wattage	Optical <sup>2</sup>	
High pressure sodium <b>TGL</b>	<b>70S</b>	Type V <b>A165</b>	Type II <b>A162</b>
	<b>100S</b>	<b>A165</b>	<b>A162</b>
	<b>150S</b>	<b>A165</b>	<b>A162</b>
<b>TGR</b>	<b>70S</b>	<b>A125</b>	<b>A121</b>
	<b>100S</b>	<b>A125</b>	<b>A121</b>
	<b>150S</b>	<b>A125</b>	<b>A121</b>
Metal halide <b>TGL</b>	<b>100M</b>	<b>A165</b>	<b>A162</b>
	<b>175M</b>	<b>A165</b>	<b>A162</b>
	<b>200M</b>	<b>A165</b>	<b>A162</b>
	<b>250M<sup>1</sup></b>	<b>A165</b>	<b>A162</b>
<b>TGR</b>	<b>100M</b>	<b>A125</b>	<b>A121</b>
	<b>175M</b>	<b>A125</b>	<b>A121</b>
Induction <b>TGL</b>	<b>85IL</b>	<b>A165</b>	<b>A162</b>
	<b>55IL</b>	<b>A165</b>	<b>A162</b>

## Voltage

**120**  
**208<sup>3,4</sup>**  
**240<sup>4,5</sup>**  
**277**  
**347**  
**480<sup>4</sup>**  
**TB<sup>6</sup>**

## Ballast

Metal halide and high pressure sodium  
(blank) Standard magnetic ballast

Pulse Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

**LLRPSL** Linear reactor pulse start

**SCWA** Super constant wattage

autotransformer

See pages 384-385 for details.

## Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

## NOTES:

- 1 Not available with SCWA.
- 2 Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.
- 3 Requires CWI option in Canada. Only available in 250M.
- 4 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-150W.
- 5 220V and 240V, 50Hz and 60Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

Lamp/fixture data				
Wattage	Standard ballast	Weight lbs.	Weight kgs.	S/mtg. height
TGL Type V				
<u>High pressure sodium (mog/clear)</u>				
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
<u>Metal halide [med(100)/mog(175-250)/clear]</u>				
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
TGR Type V				
<u>High pressure sodium (mog/clear)</u>				
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
<u>Metal halide [med(100)/mog(175)/clear]</u>				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

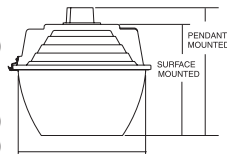
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

## TGL

Overall height: 13-3/8 (34)  
Diameter: 16-3/4 (42.5)

## TGL PM

Overall height: 15-1/2 (39.4)  
Diameter: 16-3/4 (42.5)

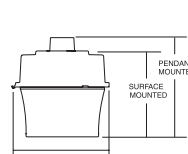


## TGR

Overall height: 11-1/4 (28.6)  
Diameter: 12-1/2 (31.8)

## TGR PM

Overall height: 13-3/8 (34)  
Diameter: 12-1/2 (31.8)



## Ambient Parameters

	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TGR		■	
TGL 100-175M			■
TGL 250M		■	
TGL 70-150S			■
TGL 55-85IL	■		

■ = COMPATIBILITY

## Options & Accessories

		Ships attached	Ships separately
<b>Universal power module hook and loop mounting</b>			
<b>LUCP</b>	Loop, cord and plug; for use with UPM <sup>1,2</sup>	●	
<b>LUCPSF</b>	LUCP, single fuse; dead front fusing; 120/277V only; for use with UPM <sup>1,2</sup>	●	
<b>LUCPDF</b>	LUCP, double fuse; dead front fusing; 208/240/480V only; N/A multi-tap ballast; for use with UPM <sup>1,2</sup>	●	
<b>UPM1</b>	Universal power module/hook adapter (specify voltage); luminaire requires LUCP, LUCPSF or LUCPDF		●
<b>Universal power module mounting</b>			
<b>UCP</b>	Universal cord and plug; for use with UPM <sup>1,2,3</sup>	●	
<b>UCPSF</b>	UCP with single fuse; dead front fusing; for use with UPM <sup>1,2,3</sup>	●	
<b>UCPDF</b>	UCP with double fuse; dead front fusing; for use with UPM <sup>1,2,3</sup>	●	
<b>UPM</b>	Universal power module (specify voltage); luminaire requires UCP, UCPSF or UCPDF		●
<b>Box mounting</b>			
<b>TOB</b>	Through-wire outlet box <sup>2</sup>		●
<b>TOBP</b>	Through-wire outlet box plug-in <sup>1,2</sup>	●	●
<b>PBP</b>	Pendant box plug-in <sup>1,2</sup>	●	●
<b>PSB</b>	Pendant splice box (steel box) <sup>2</sup>	●	
<b>PM</b>	Pendant splice box (die-cast aluminum box)	●	
<b>Mounting hooks and loops</b>			
<b>HKM</b>	Fixture hook, male		●
<b>HKF</b>	Fixture hook, female (3/4" threaded coupler)		●
<b>HKMG</b>	Grommited fixture hook, male		●
<b>LPM</b>	Fixture loop, male		●
<b>LPF</b>	Fixture loop, female (3/4" threaded coupler)		●
<b>LPMG</b>	Grommited fixture loop, male		●
<b>Mounting bars</b>			
<b>SMB18</b>	18" single-mounting bar; requires TR remote ballast option <sup>2,4</sup>		●
<b>SMB24</b>	24" single-mounting bar; requires TR remote ballast option <sup>2,4</sup>		●
<b>TMB30</b>	30" twin-mounting bar <sup>2</sup>		●
<b>TMB48</b>	48" twin-mounting bar <sup>2</sup>		●
<b>WB</b>	TG Series wall mounting bracket		●
<b>Wireguards</b>			
<b>WGA</b>	Wire guard for open Hi-Tek® high bay reflectors (specify reflector size 15, 16, 17 or 22)		●
<b>WGG</b>	Wireguard for enclosed high bay reflectors (add WG to catalog number)	●	
<b>WG</b>	Wire guard for Hi-Tek® low bays	●	
<b>LGA</b>	Louver guard for open Hi-Tek® high bays (specify reflector size 16, 17 or 22)		●
<b>LGG</b>	Louver guard for enclosed Hi-Tek® high bays (specify reflector size 17 or 22)		●
<b>WGP</b>	Wire guard for prismatic glass high bays (specify reflector size 16, 21, 16A or 21A)		●
<b>GFWG</b>	Full wire guard enclosed glass optic		●
<b>FWG</b>	Full wire guard for Acrylume® optics		●
<b>Decorative shades</b>			
<b>DCY</b>	Cylinder shade (specify reflector size and color) <sup>5</sup>		●
<b>DSQ</b>	Square shade (specify reflector size and color) <sup>5</sup>		●
<b>DHX</b>	Hexagonal shade (specify reflector size and color) <sup>5</sup>		●
<b>Paint options</b>			
<b>CR</b>	Enhanced corrosion-resistant finish (polyester), housing and reflector <sup>6</sup>	N/A	N/A
<b>CRT</b>	Non-stick protective coating, housing and reflector <sup>6</sup>	N/A	N/A
<b>Lamp options</b>			
<b>LPI</b>	Lamp shipped in carton with fixture (N/A with incandescent)	●	
<b>W/LAMP</b>	Lamp ships separately (N/A with incandescent)		●

### NOTES:

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Cannot be combined with (WL) wet location option.
- 3 Available 120V or 347V only in Canada.
- 4 Requires (TR) remote ballast option.
- 5 Pendant mount on rigid conduit. Not for use with any self-leveling hanger.
- 6 Consult factory for environmental compatibility.
- 7 Requires (PM) pendant splice box option.
- 8 Must be ordered with (GL17/GL22) tempered glass lens door enclosure.
- 9 Housing only.

### Optional Architectural Colors

<b>DNA</b>	Natural aluminum
<b>DSB</b>	Steel blue
<b>DMB</b>	Medium bronze
<b>DTG</b>	Tennis green
<b>DSS</b>	Sandstone
<b>DBL</b>	Black
<b>DWH</b>	White
<b>DGC</b>	Charcoal gray
<b>DBR</b>	Bright red
<b>DDB</b>	Dark bronze