

GL



A Visible Difference



HIGH BAY FLUORESCENT



SAVE ENERGY – SAVE MONEY

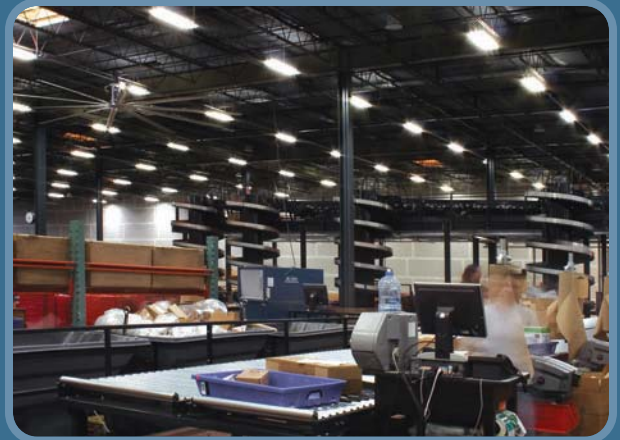
WILLIAMS GL REPLACES 400-WATT METAL HALIDE ONE-FOR-ONE

Now you can replace 400-watt metal halide fixtures one-for-one with the Williams GL and achieve comparable footcandle levels with half the energy. Here's how it works:

FIXTURE COMPARISON:	 Williams GL-4-454T5H	 400 watt METAL HALIDE
Initial Lumens	20,000	36,000
Lamp Lumen Depreciation	95%	70%
Avg. Fixture Efficiency	98%	75%
Maintained (Usable) Lumens	18,620	18,900
Energy Consumed	234 watts	465 watts
Maintained Lumens/Watt	79.6	40.6

OTHER BENEFITS INCLUDE:




- **INSTANT-ON** – Ideal for use with occupancy sensors. Nothing saves energy like lights out! In the event of power outages, lights are back on the instant power is restored.
- **EMERGENCY LIGHTING** – Handle all of your emergency lighting needs within the GL luminaire and eliminate the need for a secondary lighting system.
- **DIMMING** – Continuous dimming is available. Save energy while achieving desired levels of illumination.
- **WHITE LIGHT** – Fluorescent offers 82 CRI versus metal halide's 65 with minimal color shift. Unlike HID, fluorescent lamps maintain consistent color throughout their life.
- **SHALLOW FIXTURE DEPTH** – Depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
- **MAINTENANCE** – Two quarter-turn latches allow easy access to the ballast without the removal of lamps or the use of tools.



THE NEW STANDARD

Choice of three to six T5 lamps or four or six T8 lamps in cross-section allows the GL to be used in many different applications at varied mounting heights. Customize the GL with the 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.

Call **1-866-358-4065** and see how H.E. Williams, Inc. can make **A Visible Difference®** for you.

LIGHT LEVEL COMPARISON:	 Williams GL-4-454T5H	 350W Pulse Start	 400W High Bay
Footcandles produced with new lamps	22	25	28
Footcandles after 10,000 hours	21	16	20
Footcandles after 16,000 hours	21	14	17
Energy Consumed	234 watts	400 watts	465 watts

Spacing = 25' on center
Reflectance = 60/40/20

Mounting Height = 24'
Light Loss Factor = 0.8

SEE WHAT YOU CAN SAVE!

Visit our web-site at www.hew.com and click on "GL Payback Analysis" for a financial analysis of your lighting needs, or contact apps@hew.com for personalized lighting layout assistance.

QUALITY & DURABILITY

Highly specular MIRO 4™ aluminum reflector provides highly efficient, precise light distribution and resists dust accumulation

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

Hinged reflector allows easy access to wireway without tools — no need to remove lamps

Available with occupancy sensor to instantly turn lights on — nothing saves energy like lights out!

UL listed to U.S. and Canadian safety standards as fluorescent luminaire suitable for dry or damp locations

Available with 3, 4, 5, or 6 T5HO lamps, 4 or 6 T8 lamps in cross-section

Durable construction

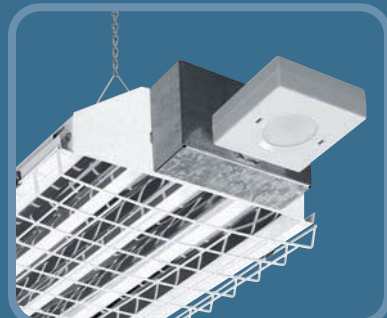
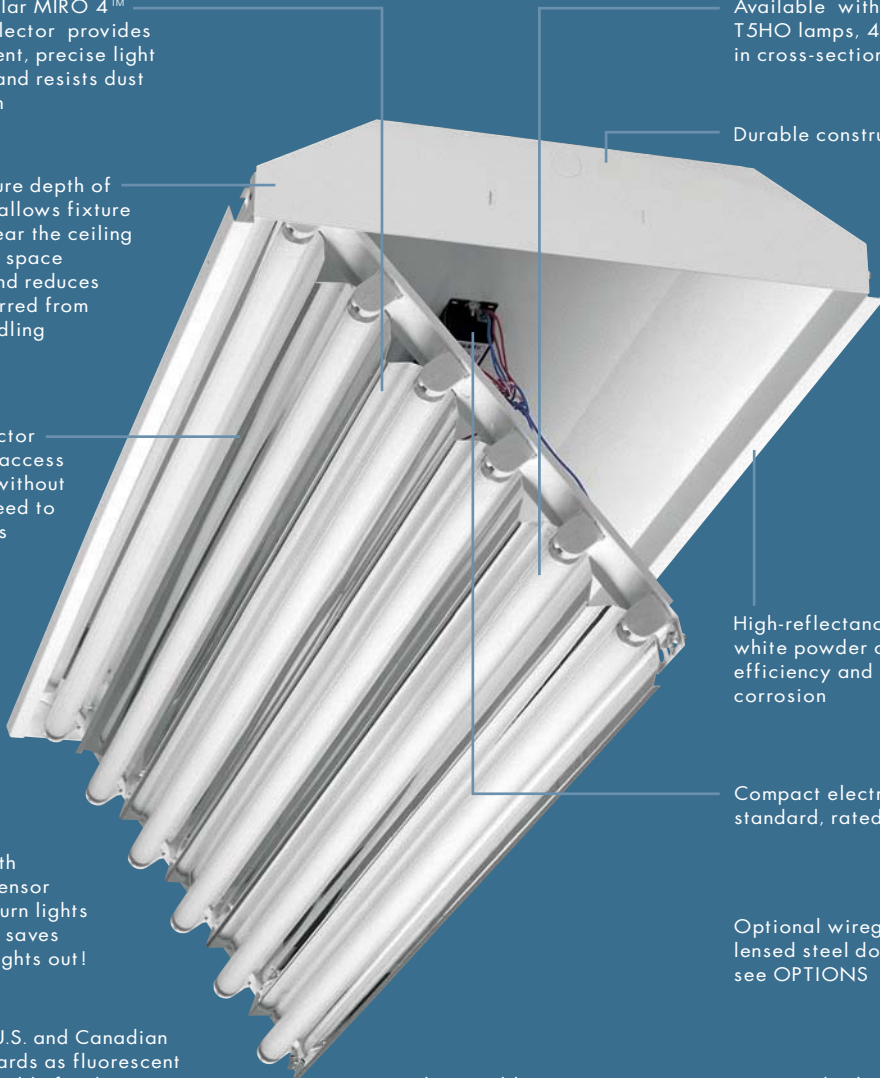
High-reflectance gloss white powder coat improves efficiency and inhibits corrosion

Compact electronic ballasts standard, rated Class P

Optional wireguard or lensed steel door frame — see OPTIONS

K.O.'s on both ends and top of housing for power entry

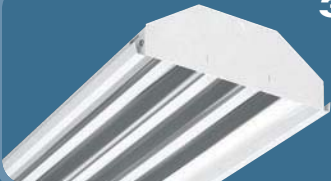
Stem, chain, cable mounting



Many options and accessories add to the functionality and versatility of the GL. See back for details.

SELECTION – LAMP CONFIGURATIONS


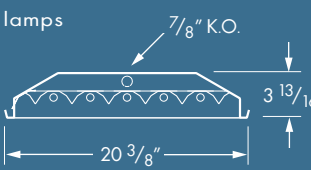
3 T5 3 T5 lamps




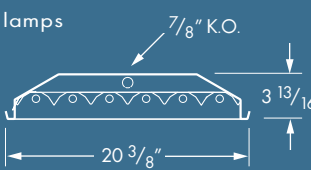

4 T5 4 T5 lamps



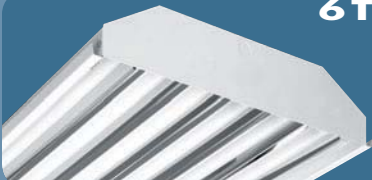
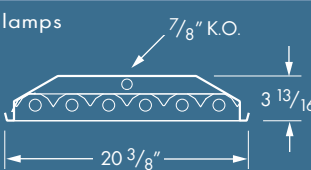
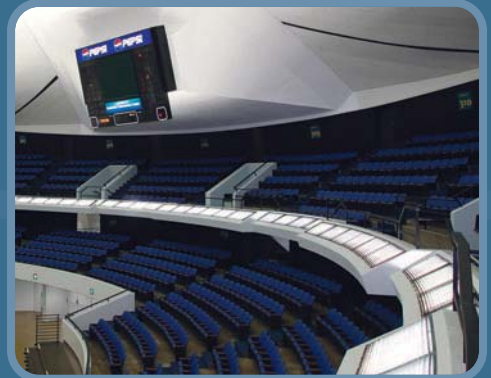

5 T5 5 T5 lamps

6 T5 6 T5 lamps

6 T8 6 T8 lamps

FOOTCANDLE ESTIMATOR

OPEN AREA - Maintained Horizontal Footcandles
Standard Reflectance: 70/30/10, Spacing 25' on center

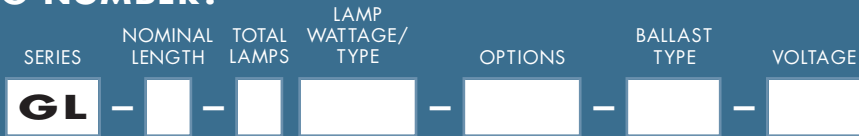
MOUNTING HEIGHT	4'	4'	4'	4'	4'
	354T5H	632T8	454T5H	554T5H	654T5H
12'	22	—	—	—	—
15'	21	—	—	—	—
18'	21	27	29	—	—
20'	20	26	28	30	35
22'	20	26	28	30	35
25'	19	25	27	29	34
30'	—	24	25	27	32
35'	—	23	24	26	30
40'	—	21	23	25	29
50'	—	19	21	22	26

12' WIDE AISLE - Maintained Horizontal Footcandles
Standard Reflectance: 70/30/10, Spacing 25' on center

MOUNTING HEIGHT	4'	4'	4'	4'	4'
	354T5H	632T8	454T5H	554T5H	654T5H
12'	33	—	—	—	—
15'	28	—	—	—	—
18'	24	29	—	—	—
20'	22	27	32	32	—
22'	20	24	29	29	35
25'	18	21	25	26	31
30'	—	17	21	21	25
35'	—	—	18	18	21
40'	—	—	—	—	18
50'	—	—	—	—	—

ORDERING INFORMATION

CATALOG NUMBER:



EXAMPLE: GL - 4 - 454T5H - OPTIONS - EB2/2 - 277

SERIES

GL Low Profile T5 Industrial

NOMINAL LENGTH

4 4'

8 8'

TOTAL LAMPS

3, 4, 5, or 6 (4' length)

6, 8, 10, or 12 (8' length)

LAMP WATTAGE/TYPE

28T5S 4', 28 watt T5S

54T5H 4', 54 watt T5HO

32 4', 32 watt T8 (4 or 6 lamps in cross-section only)

OPTIONS (See reverse for more information)

3SB 3" spacer bracket (1 pair)

HA High Ambient (3 or 4 lamp T5 only, without lens)

HUB 3/4" Cast iron hub & junction box for single pendant mount (4' unit only)

HUB/HOOK Mounting hook with safety screw, for replacement of HID fixtures. Attaches to fixture with 3/4" cast iron hub and junction box. (Shipped not attached)

VBY-2 1 pair VBY hangers & 2 pieces of 2' chain

OCC SEN Occupancy Sensor (Consult factory for choices)

S7238/B Cord, 72" length, No. 18 AWG, 3 conductor, black (no plug)

6CPI/L5-15P/TWLK 6' cord & NEMA Twistlock 120V plug

6CPI/L7-15P/TWLK 6' cord & NEMA Twistlock 277V plug

OPTIONS cont'd.

PHSCHA118 Piano hinge steel door frame, 0.118" thick, clear high temperature acrylic glazing (non-prismatic clear lens)

SCHA118 Steel door frame, 0.118" thick, clear high temp. acrylic glazing (non-prismatic clear lens)

WG11 11 gauge white powder coat wireguard

REFLWHITE White reflector

UP5 Uplight apertures – 5% uplight

BALLAST TYPE (dependent on specified lamp type)

EB2/1 (1) 2 lamp & (1) 1 lamp electronic ballast

EB2/2 (2) 2 lamp electronic ballasts

EB4 (1) 4 lamp electronic ballast

EB3/2 (1) 3 lamp & (1) 2 lamp electronic ballast

EB4/1 (1) 4 lamp & (1) 1 lamp electronic ballast

EB4/2 (1) 4 lamp & (1) 2 lamp electronic ballast

EBHW3/3 (2) 3 lamp instant start high wattage electronic ballasts (T8 only)

Note: Consult factory for additional ballast choices

VOLTAGE

120 120V

208 208V

240 240V

277 277V

UNV 120 - 277V

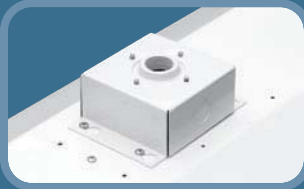
347 347V

480 480V

HRV 347 - 480V



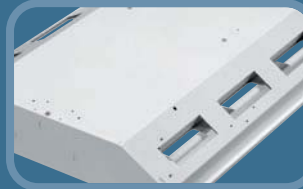
OPTIONS & ACCESSORIES



HUB 3/4

3/4" HUB MOUNT

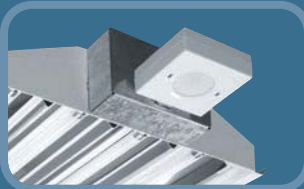
Cast iron 3/4" mounting hub and junction box attaches easily for single pendant mounting (4' fixture only). Available with hook or hook, cord & plug for HID replacement – consult factory.



UP5

5% UPLIGHT

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



OCC SEN

OCCUPANCY SENSOR

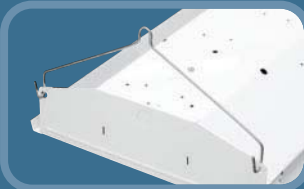
The GL can be used with an occupancy sensor to turn lights on when motion is detected and off when motion is no longer detected. Programmed Start ballast is recommended with T8 to avoid shortened lamp life.



S7238/B

CORD

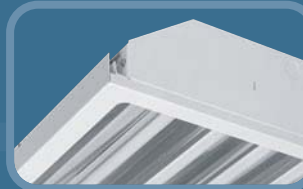
Straight, 72" cord, 3 conductor, 18 AWG, black, wired to the fixture. Choice of cord entry in top or end of fixture. Available in many lengths and with Twistlock plug – consult factory.



VBY-2

Y HANGER & 2' CHAIN

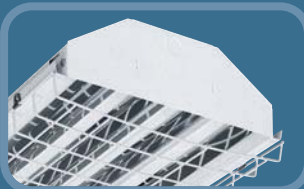
One pair of hangers and two 2' pieces of chain quickly and securely mount the GL. Consult factory for other lengths of chain.



SCHA118

DOOR FRAME & LENS

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



WG11

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.



PHSCHA118

PIANO HINGE DOOR FRAME & LENS

Piano hinge steel door frame with 0.118" thick clear high temperature acrylic glazing (non-prismatic clear lens). Other lens materials are available – consult factory.

OTHER COMMERCIAL & INDUSTRIAL PRODUCTS



88

T5/T8 AISLE LIGHTER

Combine various distributions and lamp options to provide efficient illumination of aisles. Available in 4' or 8' lengths with variety of mounting options for an energy saving alternative to HID.



84

T5 INDUSTRIAL

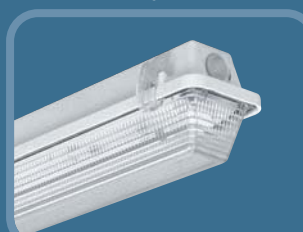
Provides broad, uniform distribution of light; ideal for lower mounting heights (10' - 15'). Series 84 is available with 1 or 2 T5 or T5HO lamps in cross section. Provides a nice complement to the GL.



GCL

T5 CANOPY LIGHT

Fully gasketed fixture is ideal for outside walkways, gymnasiums, industrial areas, swimming pools, and service station canopies. Housing is heavy gauge aluminum for maximum heat dissipation. 4 stainless steel latches secure flat or drop lens. 3 or 4 T5HO lamps.



95 and 96

T5/T8 ENCLOSED

Fully gasketed and enclosed luminaire is available with T5 or T8 lamps in 2', 4', or 8' (96 only) lengths. Choice of durable injection-molded or lower-profile blow-molded diffuser. UL listed suitable for wet locations when ordered with water tight hub factory installed.

Contact your H.E. Williams, Inc. representative for more information on our complete product line.

