

GEMINI 4000 Wall Light

Features

- Cost effective solution for illuminating auditorium stairways along walls
- Eliminates need to install lights on each individual step
- Also ideal for pathways and corridors
- Effectively illuminates steps and paths up to 5 feet wide
- Light levels satisfy requirements set forth in Life Safety Code of National Fire Protection Agency (NFPA)
- UL Listed as Low Voltage Lighting System
- Standard 2 year warranty; extended warranty available with approved installers

LED Light Source

- LED modules spaced 12 inch on center (Consult factory for other spacings)
- Available in Amber, Red, and White LEDs
- Consult factory for other color combinations.
- Modules consume only 0.3W each and run on safe 12V DC power
- Rated for 30,000 hours and individually replaceable
- Dimmable with accompanying power supply (See Power Supplies)
- Available with optional louvers and inserts for minimizing glare and scalloping along stairways

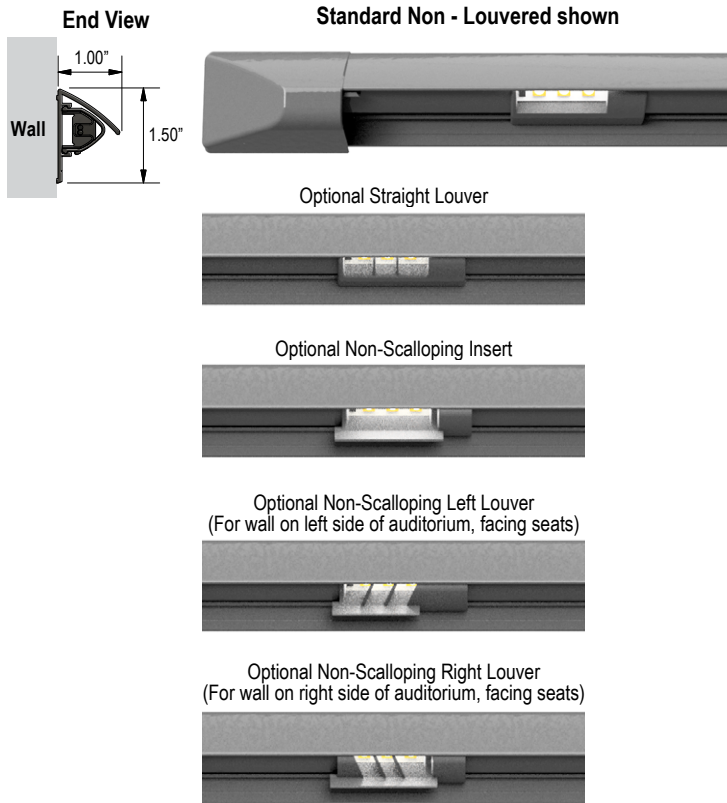
Fixture Design

- Low profile is ADA compliant and provides unobtrusive illumination
- Lens-less design allows unhindered projection of light, maximizing output
- Aluminum housing ensures structural integrity of fixture against uneven wall surfaces
- Black anodized finish provides added protection against corrosion (Consult factory for other finishes)
- Molded PVC end caps match fixture contours for finished look
- Elbows available for inside and outside corners
- Angled couplings available for transitions in grade

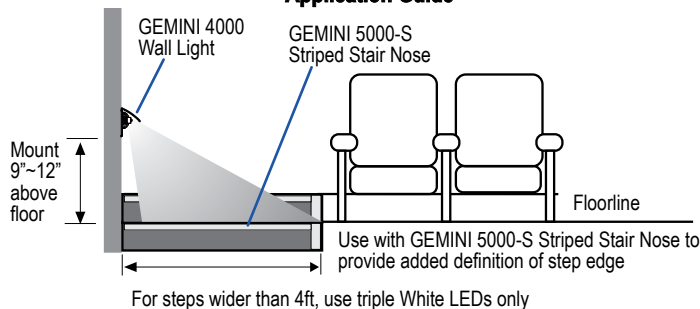
Installation

- Fixtures are factory pre-assembled and can be mounted directly to wall for quick and easy installation
- Ships in standard 5 ft or 10 ft sections; can be cut to length
- Mount 9 ~ 12 inches above floor for optimum illumination
- Built-in connectors at fixture ends simplify wiring for end-to-end continuous rows
- Maximum 200 LED modules per 60W output circuit of power supply
- End caps also serve to cover conduit opening in wall and allow low voltage wire to feed into fixture
- Junction box also available, where conduit or wall box has not been roughed in
- Requires 12VDC transformer (See Power Supply specifications)
- Use in conjunction with GEMINI 5000-S Striped Stair Nose to provide added definition of step edge

Job Name:		Type:	
Contractor:		Sheet:	



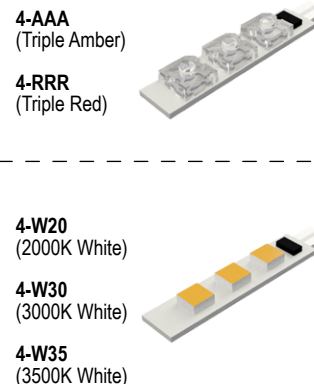
Application Guide



How to Specify GEMINI 4000 Series

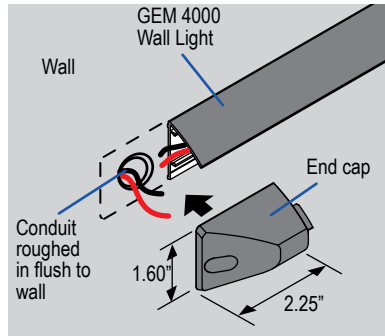
GEM - 4000 -				
	Light Control	LED Module	LED Spacing	Fixture Length
	SNL Non-louvered	AAA Amber	12 12" on center	5 5ft
	SLV Straight louver	RRR Red		10 10ft
	NSI Non-scalloping insert	W20 2000K White		
	NLL Non-scalloping left louver	W30 3000K White		
	NLR Non-scalloping right louver	W35 3500K White		
Example		Consult factory for other color combinations. Minimum quantities may apply.	Consult factory for other spacings	10 ft sections may incur higher freight charges
GEM - 4000 -	LV	W35	12	10

Replacement LEDs

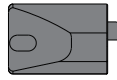


GEMINI 4000 Wall Light Accessories

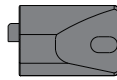
End Cap



**Left End Cap
GEM-4LE**

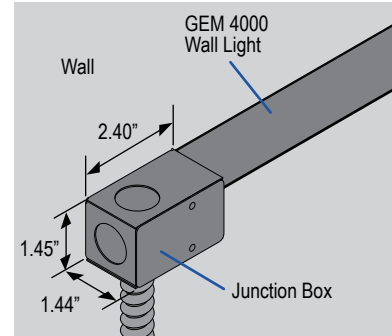


**Right End Cap
GEM-4RE**



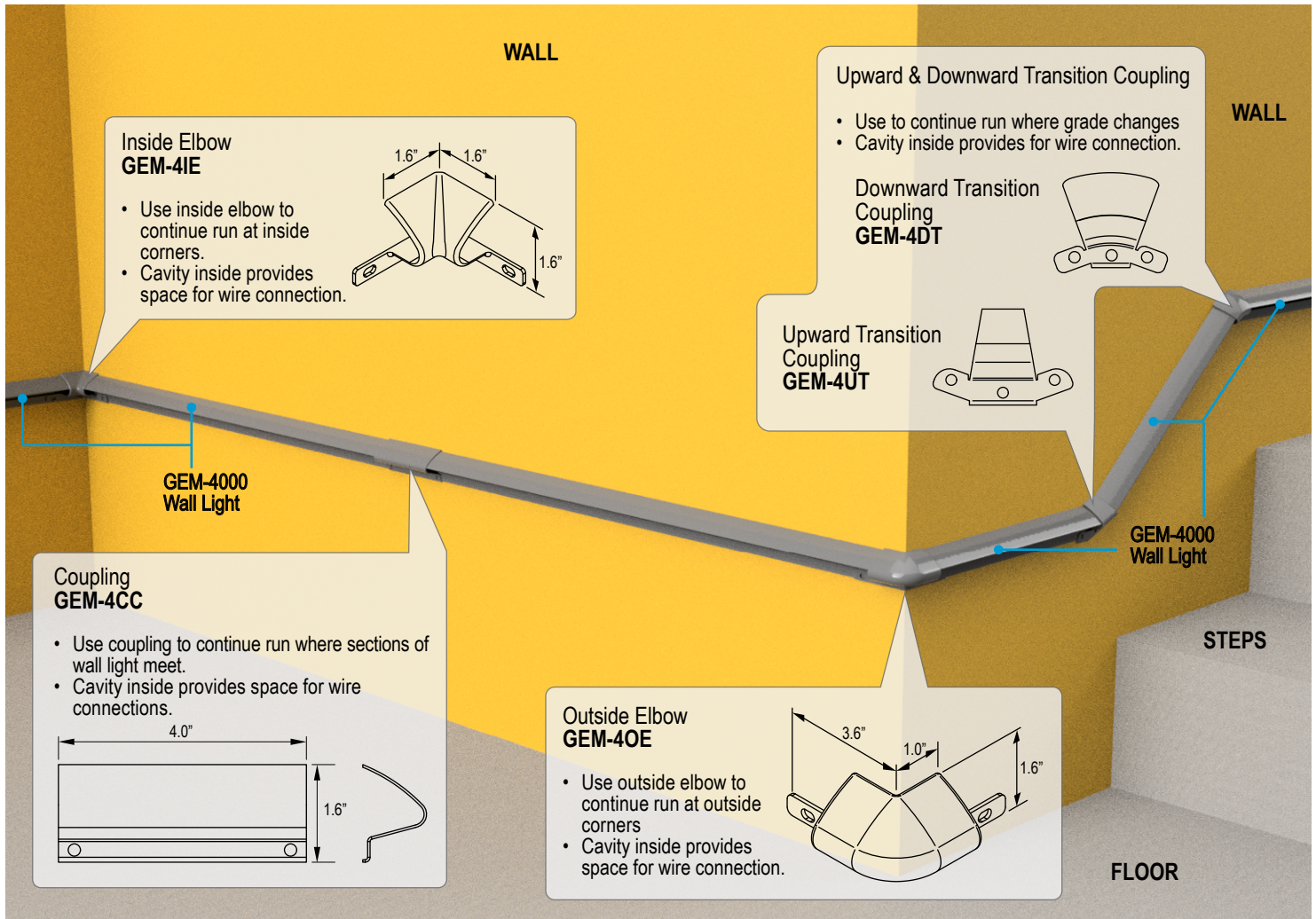
- Use end cap to finish beginning and end of run.
- End cap can also cover conduit opening in wall and conceal low voltage wire connection into wall light.

Junction Box



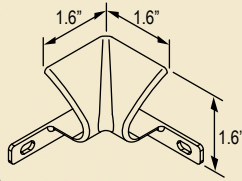
**Junction Box
GEM-4JB**

- Use junction box at feed point if conduit has not been roughed into wall.
- Provides opening on one side to feed low voltage wires into wall light.
- Knockouts on 3 sides accept standard 3/8" or 1/2" trade size conduit.



**Inside Elbow
GEM-4IE**

- Use inside elbow to continue run at inside corners.
- Cavity inside provides space for wire connection.



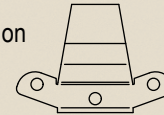
Upward & Downward Transition Coupling

- Use to continue run where grade changes
- Cavity inside provides for wire connection.

**Downward Transition Coupling
GEM-4DT**

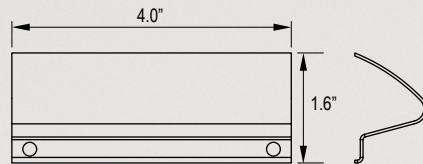


**Upward Transition Coupling
GEM-4UT**



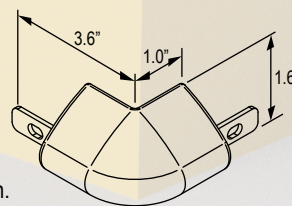
**Coupling
GEM-4CC**

- Use coupling to continue run where sections of wall light meet.
- Cavity inside provides space for wire connections.



**Outside Elbow
GEM-4OE**

- Use outside elbow to continue run at outside corners
- Cavity inside provides space for wire connection.



Accessories

**Wall Dog Screws
GEM-WDS**

- Use to secure wall light to concrete wall
- Use one screw every 15 inches of wall light
- Use one screw per end cap



Standard Low Voltage Electronic Power Supply

Ratings

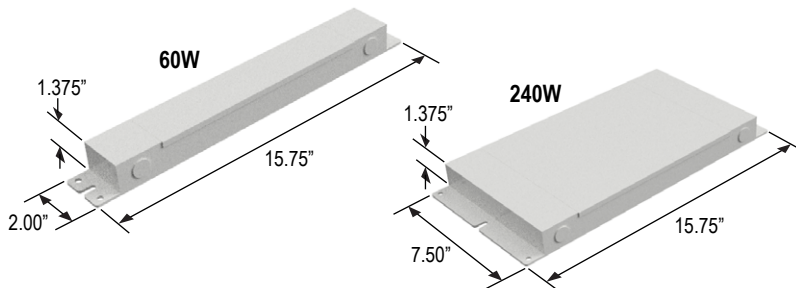
- Input: 120VAC or 277VAC, 50/60 Hz
- Output: 12VDC
- Output current: 5 Amps per output circuit
- Maximum output power: 60W or 240W
- Overload protection: Auto reset circuit breaker
- Enclosure: Indoor / outdoor enclosure with conduit knockouts
- Operating temperature: -30° to 60° Celsius
- Certification: UL Class 2 Power Supply

Maximum Load

- Maximum 200 LED modules per 5A output circuit
- Do not connect more than 200 LED modules per 5A output

Dimming

- Compatible with most standard electronic low voltage dimmers
- Wire dimmer to primary side of power supply
- Requires minimum 50 LED modules per 5A output for effective dimming
- Recommended dimmer: Lutron Diva Series DVELV-300P (120VAC, 300W, single pole)



Ordering Codes

Item Number	Watts	Volts	Outputs	Dimensions	Weight
GPS-UNV-60-ELV	60 W	120VAC~277VAC to 12VDC	1 X 5A	15.75" L x 2.0" W x 1.375" H	2 lbs
GPS-UNV-240-ELV	240 W	120VAC~277VAC to 12VDC	4 X 5A	15.75" L x 7.5" W x 1.375" H	7 lbs

Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

0-10V Dimmer Compatible Power Supply

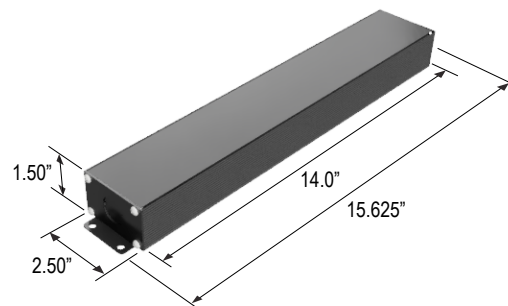
Ratings

- Input: 120-277VAC, 50/60 Hz
- Output: 12VDC
- Maximum output current: 5 Amps
- Maximum output power: 60W
- Overload Protection: Short Circuit, Thermal Protection
- Operating temperature: -40° to 60° Celsius
- Maximum load: Do not connect more than 200 LED modules

Ordering Code

Item Number	Watts	Description	Dimensions	Weight
DD-010-12	60 W	120VAC~277VAC to 12VDC for 0-10V dimming*	15.6" L x 2.5" W x 1.5" H	3 lbs

* Recommended dimmer: Lutron Diva Series Part No. DVSTV



Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

Multi-Zone Dimming Power Supply

Features

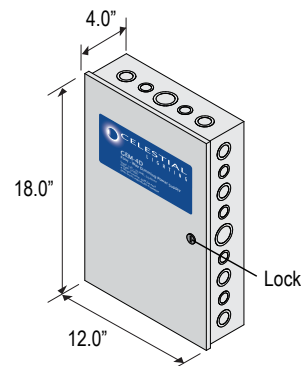
- All-in-one, four-circuit dimming power supply
- No need to install power supply and dimmer separately
- Step and path lights in auditorium can be divided into 4 zones
- Light level of each zone can be controlled individually, to minimize glare in certain areas while allowing for full output in others
- Requires 50 LED modules per output circuit for effective dimming

Maximum Load

- Do not connect more than 200 LED modules per output circuit

Ratings

- Input: 120VAC or 277VAC, 50/60 Hz, 1.7A
- Output: 12VDC
- Maximum output power: 60W per output circuit
- Constant Voltage
- Overload protection: Auto Resettable
- Enclosure: NEMA/EEMAC Type 1 with conduit knockouts on all four sides of enclosure
- Operating temperature: -25° to 63° Celsius
- Certification: Class 2 Power Supply



Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

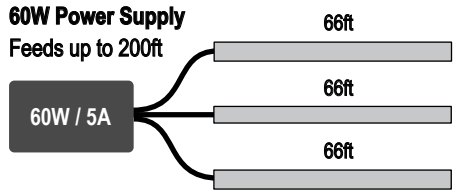
Ordering Code

Item Number	Watts	Volts	Outputs	Dimensions	Weight
GEM-4D	240 W	120VAC ~ 277VAC, 50/60Hz, 1.7A	(60 x 4)	18" H x 12" W x 4" D	19 lbs

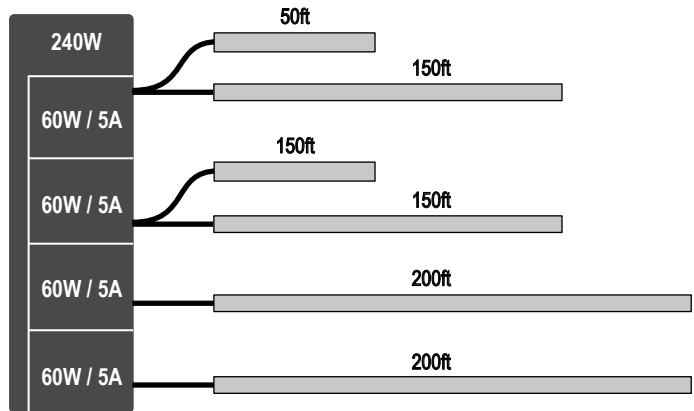
How to Feed GEMINI 4000

GEMINI 4000 lightstrip uses 18 gauge red/black cable for 12VDC. (Polarity: Red - positive, Black - negative)

Standard LED modules
(AAA, RRR, W20, W30, W35)
Maximum 200ft per 60W output based on 12" LED spacing



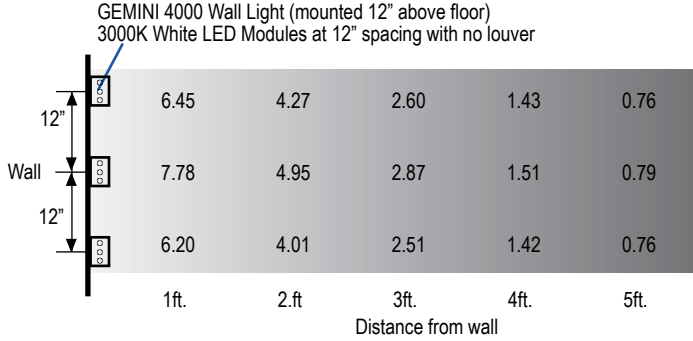
240W Power Supply
Feeds up to 800ft total (200ft per 60W output)



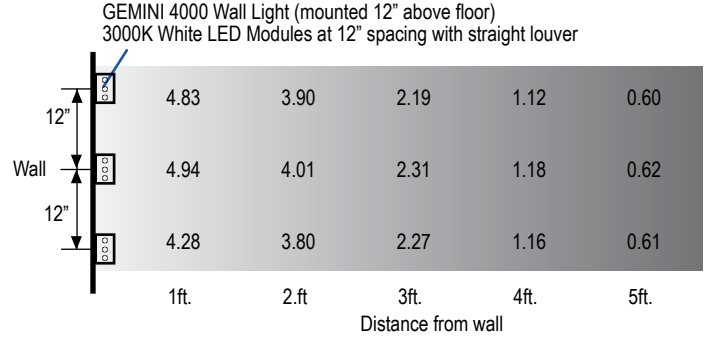
Multiple runs may be connected together, so long as total footage of runs does not exceed 200ft per 60W output (based on 12" LED spacing)

Footcandle Measurements (using 3000K White LEDs)
Top view of floor

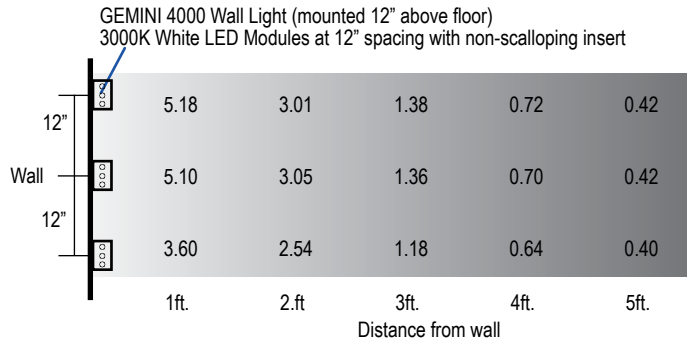
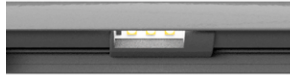
Standard Non-Louvered



Optional Straight Louver

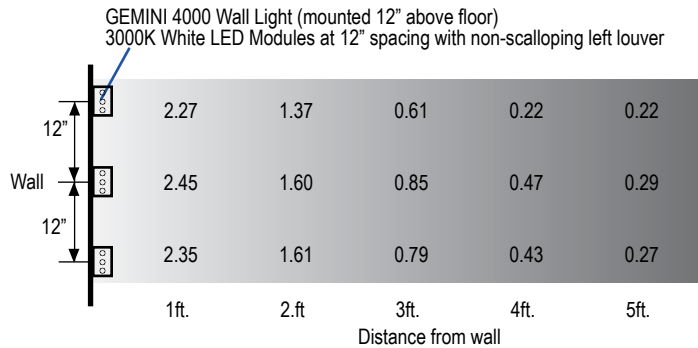
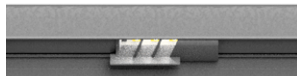


Optional Non-Scalloping Insert



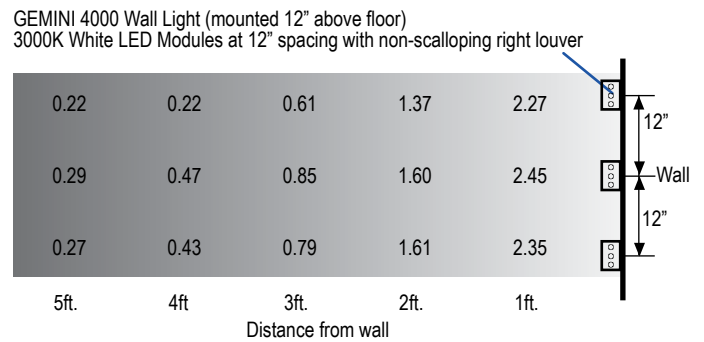
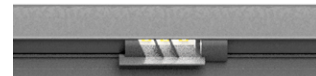
Optional Non-Scalloping Left Louver

(Mounted on left-side wall, facing seats with back to screen)



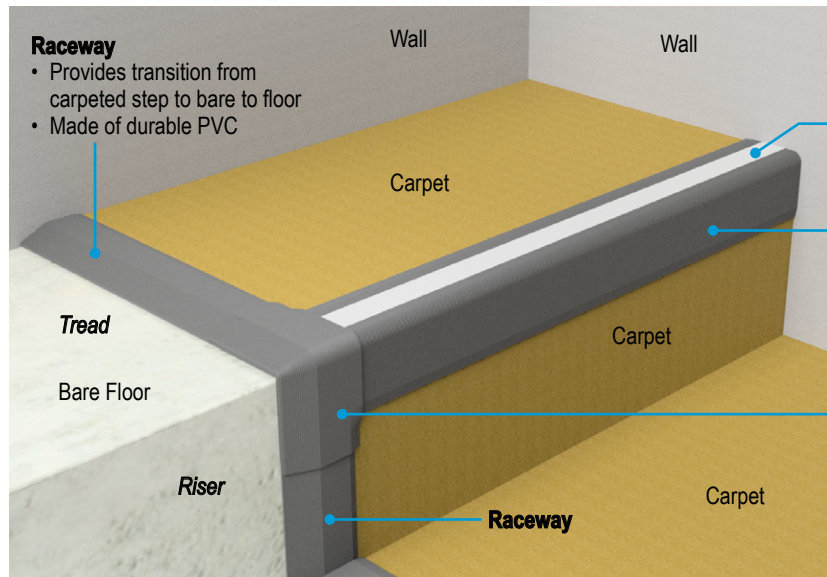
Optional Non-Scalloping Right Louver

(Mounted on right-side wall, facing seats with back to screen)



GEMINI 5000-S Striped Stair Nose

Light grey stripe on black stair nose provides added step definition when using GEMINI 4000 Wall Light to illuminate steps.



- Raceway**
- Provides transition from carpeted step to bare to floor
 - Made of durable PVC

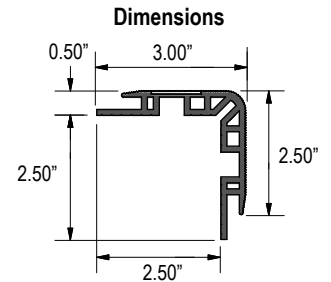
1" light grey stripe

GEMINI 5000-S

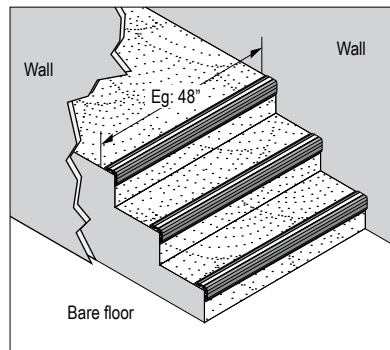
- Soft vinyl stair nose with light grey stripe on tread
- Also available with stripe on both tread and riser
- Withstands extreme loads and heavy foot traffic
- Conforms to gradual curves and irregularities in flooring
- ADA compliant design (No trip hazard)

End cap

- Finishes corner where stair nose meets raceway, providing seamless appearance with matching ribs and contours
- Includes pins that mate with stairnose, preventing displacement
- Made of durable PVC



Applications

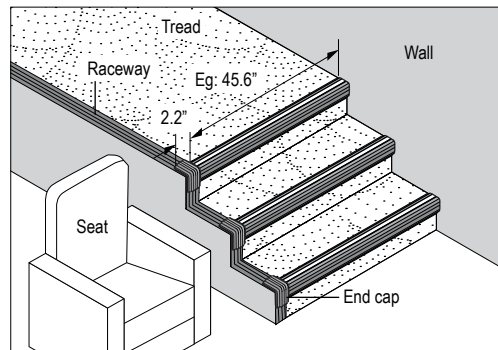


For steps that are between two walls

GEM-5000-S: Measure the width of each step.

End cap: None

Raceway: None

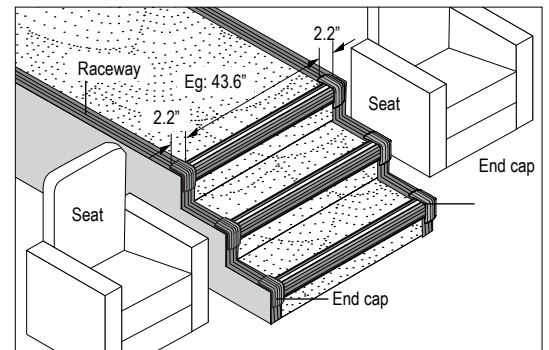


For steps with wall on one side and seat on the other side

GEM-5000-S: Measure the width of each step

End cap: Order one end cap per step to be installed on the opposite side of the wall. Cut Stair nose 2.2" shorter to allow for the width of one end cap. (Ships loose)

Raceway: Measure the tread and riser for each step and calculate total footage of raceway needed. Ships in 5ft or 10ft lengths, cut to length on site.



For steps between seats, use end caps on both sides

GEM-5000-S: Measure the width of each step

End cap: Order two end caps per step. Cut Stair nose 4.4" shorter to allow for the width of the two end caps. (Ships loose)

Raceway: Measure the tread and riser for each step and calculate total footage of raceway needed. Ships in 5ft or 10ft lengths, cut to length on site.

How to Specify GEMINI 5000-S Series

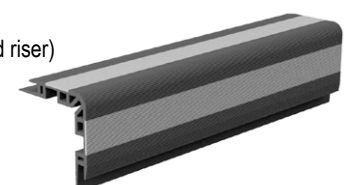
GEM - 5000 -	Single or Dual Stripe		Specify width of step	
	S	Stripe on tread	3.0	3.0 feet
	DS	Stripe on tread and riser	4.0	4.0 feet
			5.0	5.0 feet
			6.0	6.0 feet
			Consult factory for custom lengths	
Example	S		4.0	
GEM - 5000 -	S		4.0	

GEMINI 5000-S Striped Stair Nose

GEM-5000-S
(Stripe on tread)



GEM-5000-DS
(Stripe on tread and riser)



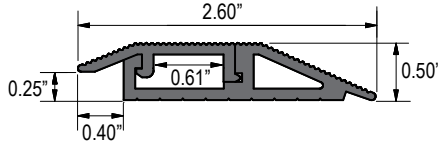
**GEMINI 5000 Striped Stair Nose
Accessories**

Raceway

Use on the tread and riser to mate with GEM-5SE end caps

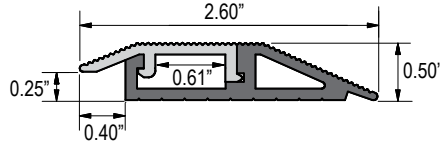
GEM-5SR

(Black base, black cover)



GEM-5SC

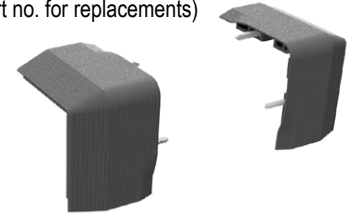
(Black base, grey cover)



End caps

GEM-5SE

(Part no. for replacements)



Universal design:

Fits on either left or right side of stairnose

Accessories

Adhesive

GEM-MP75-10

- 10 oz per tube
- Use to secure stairnose and raceway to floor surface



Flat Head Tapcon Screw

GEM-FTS

- Use to secure bullnose to concrete step



Glue Gun

GEM-GG

- Use to apply adhesive out of tube



Hex Head Concrete Screw

GEM-HTS

- Use to secure raceway to concrete floor



Adhesive and screw usage chart

Accessories	GEM-5000	Raceway
Adhesive	1 tube / 5 ft.	1 tube / 30 ft.
Flat head screw	1 screw / ft.	not used
Hex head screw	not used	1 screw / ft.