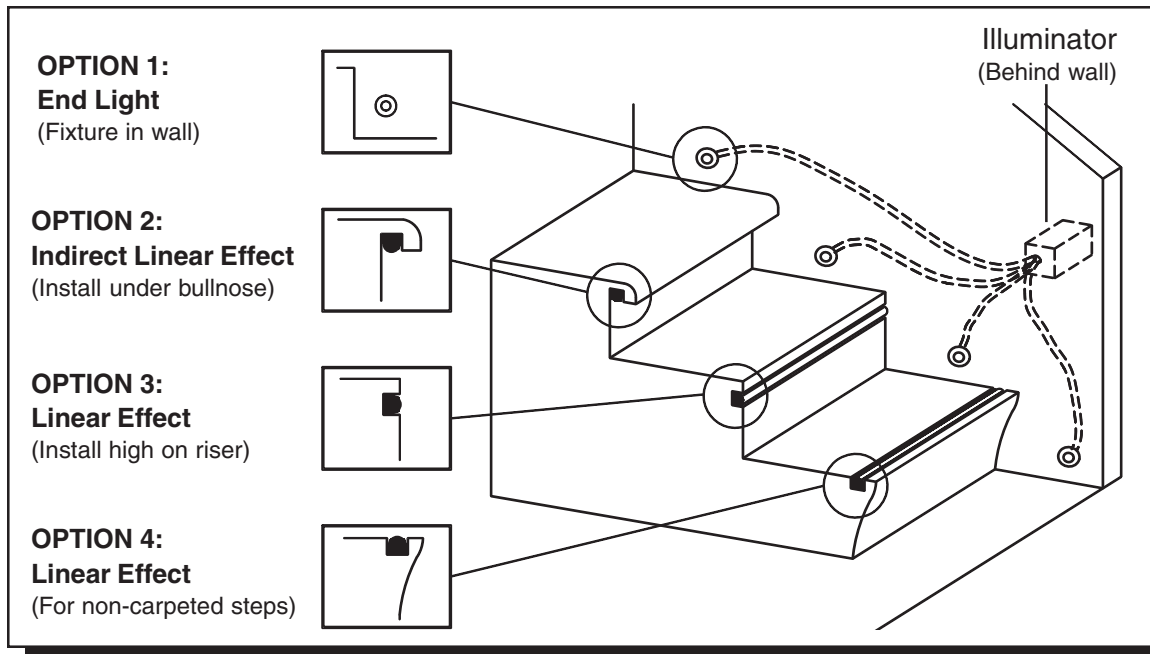


STEP LIGHTING APPLICATIONS



Product Recommendations

OPTION 1: End Light

- Illuminator:* ENCORE™ (AR100/150) or POWERHOUSE™ Series Quartz Halogen (PH1000); Metal Halide (PH3000).
- Optical Fiber:* SEL300, SEL200, SEL100, LEL-12 or LEL-30 depending on stair width, fixture and desired effect.
- Fixtures:* **See FIXTURES (Wall Mount);** XL-CNF, XL-GWF if underwater or in high moisture areas.
- Mounting Method:* Fixture enters wall on stair side. Mounting detail varies based on fixture.

OPTION 2: Indirect Linear Effect

- Illuminator:* **(Same as Option 1)**
- Optical Fiber:*
- Exterior or Higher Abuse: LEF510M (Brightest); LEF410M or 5/8" Lumechannel (bright); SFC501, SFC401, LSL-144, SFC301/302 or LSL-84 (Subdued). For mid to dark-toned steps, LEF fiber is advised. Add **-WR** jacket (SFC/LEF) if underwater.
 - Interior: Same as exterior; also SWN300, SWN400 or SWN500 (Subdued).
- Track:* WUC or CUC track in appropriate size for LEF. WUC track in appropriate size for SFC or SWN fibers and LSL cables.
- Mounting Method:* Secure track in reveal behind bullnose with counterscrews. Feed fiber/cable straight into design, bonding LEF/SFC fibers or LSL cables into track with LIC-RTV.

OPTION 3: Linear Effect

- Illuminator:* **(Same as Option 1)**
- Optical Fiber:*
- Exterior or Higher Abuse: SFC401, SFC301, SFC201, LSL-84 or LSL-49. Add **-WR** jacket (SFC) if underwater.
 - Interior: Same as exterior; also SWN400, SWN300, SWN200.
- Track:* WUC or CUC track in appropriate size for SFC or SWN fibers and LSL cables.
- Mounting Method:* **(Same as Option 2)** With SFC/SWN fibers, color heads of countersunk screws in track to match background.

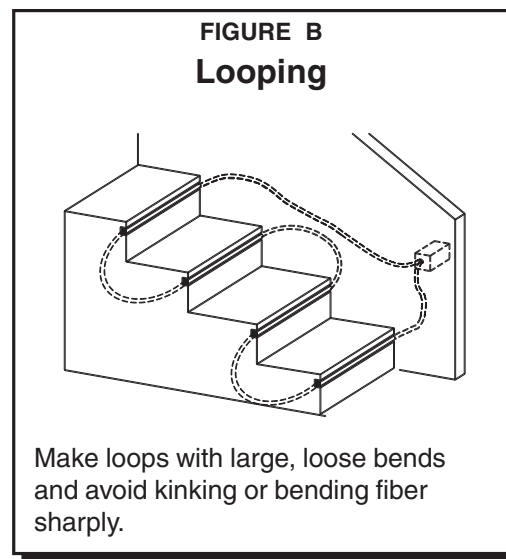
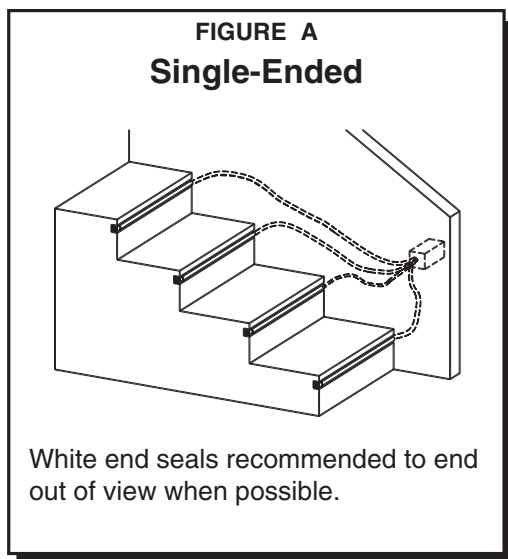
OPTION 4: Metal Extrusion for Non-Carpeted Stairs

- Illuminator:* **(Same as Option 1)**
- Optical Fiber:* SFC302 only (square)
- Mounting Method:* Attach extrusion to leading edge of step with countersunk screws every 1' - 2' (30 - 60cm). Bond fiber into extrusion with LIC-RTV.

STEP LIGHTING APPLICATIONS

General Guidelines

1. Maximum fiber length depends on several factors:
 - Intensity of illuminator
 - Fiber size
 - Number of fibers into illuminator
 - Desired intensity level
 - Color of light
 - Number and tightness of bends
2. Loose radial bends produce best results. Follow bend radius requirements in accordance with fiber/cable specifications.
3. Feeding several single-ended lengths from one side can work well (See Figure A).
 - a. Keep lengths approximately the same.
 - b. Use White End Seal (ESXXX-WL) on fiber ends not entering illuminator. Extend fiber end 3" - 4" (76 -101mm) into wall or step body out-of-view to avoid a bright spot.
 - c. Feed fiber straight into steps.
4. Feeding a single fiber through multiple steps can work well (See Figure B).
 - a. Maintain loose radial bends from one step to the next.
 - b. Light loss is compounded with multiple bends; be sure to feed optical fiber end back into the same illuminator (looping) after about 4-6 loose bends.



5. For indirect effect lighting, use larger optical fiber sizes or LEF when reflecting onto medium-tone or dark surface.
6. Illuminators require adequate ventilation for proper operation. For enclosed locations, enhanced airflow may be required. See DUCT-PH (Powerhouse™ Series Illuminators) or DUCT-AR (Encore™ Series Illuminators) for vent duct operation.

NOTE: For more product details, please contact your local Lumenyte representative.
Factory provided complimentary design review is available.