



# Hi-Light™ 80 Vessel Light

## Data Sheet DS65-400-4



### Key Features

Compact vessel light provides:

- High intensity tungsten-halogen light source
- Energy efficiency
- Corrosion resistance
- Clean, explosion-proof design

### Lights Vessel Interiors Effectively

Efficient, high-output, tungsten-halogen light source and fiber

optic light pipe provide superior, uniform illumination inside the vessel. This unit eliminates undesirable spotlight or light-curtain effects, reflection, absorption or obstruction often encountered with common lighting arrangements. Thus, the Hi-Light 80 makes it easy to observe process conditions or changes, and to inspect the vessel wall, agitator or other internal accessories with improved peripheral illumination (see graph below).

### Applications and Availability

The Pfaudler Hi-Light 80 is suitable for use on both new and reconditioned glass-lined steel or alloy vessels, and is easy to retrofit to existing vessels.

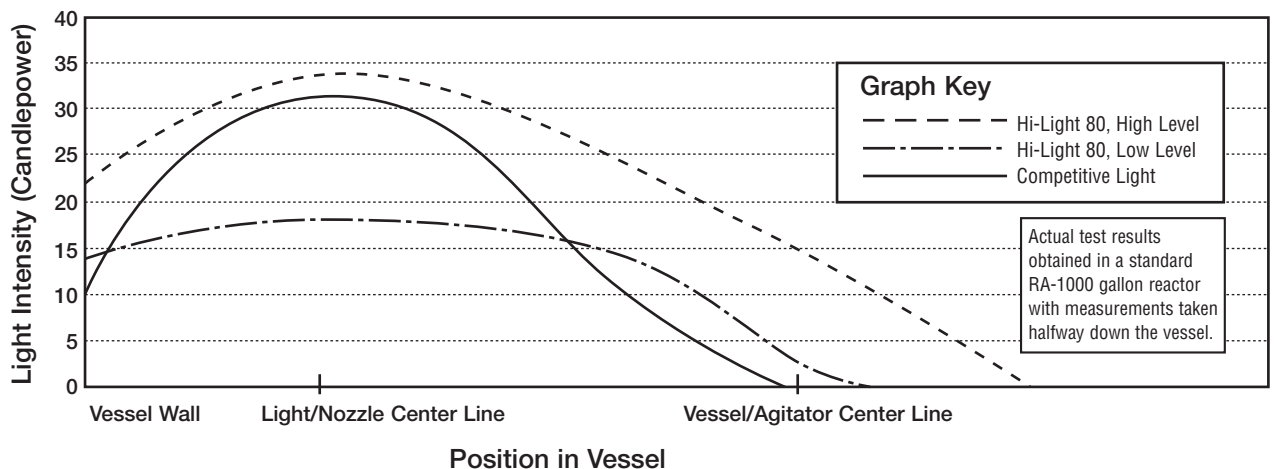
The explosion-proof light source and light pipe are rated for Class I, Div. 1, Groups, B, C, D, and Div. 2, Groups E, F, G.

When used on glass-lined steel equipment, Hi-Light 80 features a

Pfaudler fused sight glass, which can be mounted with a sight glass flange (sold separately) and left in place if the light is removed. This sight glass is highly corrosion resistant, will not weaken if scratched, and is rated for 300 psi at 450°F. The clean, flanged design of Hi-Light 80 prevents dirt from accumulating on top of the sight glass which would reduce light intensity.

The Hi-Light is available with the standard 80-watt light source or with a 250-watt source (Hi-Light 250), which is inert-gas purged. Both can provide high or low levels of illumination when used with an optional three-way switch. Every unit comes equipped with a 3-hour adjustable timer, pre-set at the factory for 60 minutes. Both light sources use 120 or 240 VAC power.

Table I – Comparison of Light Intensity: Pfaudler Hi-Light 80 vs. Competitive Light



### Light Pipe Mounting and Beam Options

- ANSI 150 and 300 psi flanges are available for 2", 3", 4" and 6" nozzles. Flanges are nickel plated and Imron coated.
- Threaded pipes are available in 1" and 1-1/4" NPT, and in straight thread with O-ring seal.
- Sanitary Tri Clamp design is available in stainless steel/glass construction.
- Beam options include 30 degree narrow beam (standard), 90 degree wide beam and 12 degree spot beam.

Consult Pfaudler or GPS for application information.

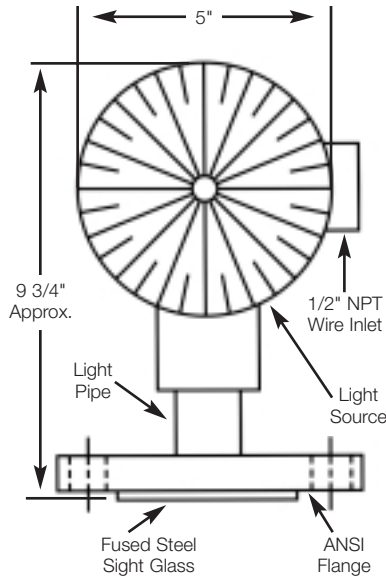


Table II – Hi-Light 80 Order Numbers

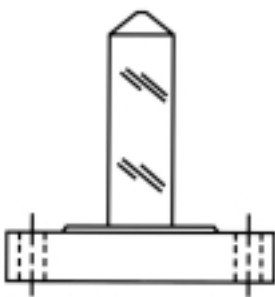
Size	150#ANSI	300#ANSI
2"	1363172	1363272
3"	1363173	1363273
4"	1363174	1363274
6"	1363176	1363276

### Compact, Tough Design

This rugged design has an overall height of only about ten inches. The light housing holds the light source, the power supply and transformer, eliminating the need for a separate, explosion-proof power supply enclosure. The fiber optic light pipe and cover are O-ring sealed to permit

weatherproof/outdoor installation. The light housing is cooled by external fins and protected against overheating by a thermal switch. A built-in infra-red filter removes heat from the light beam, and the high-level light output is timed to save energy and prolong bulb life.

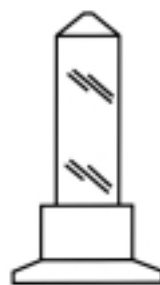
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**Flanged Light Pipe**  
Glass-Lined Steel Vessels



**Threaded Light Pipe**  
Alloy Vessels



**Tri Clamp Light Pipe**  
Food Process and Fermentation Vessels



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