



# 100W TweenieLED

Type 8901 Tungsten

Type 8911 Daylite

Pound for pound, it's everything you've come to expect from a Tweenie and so much more. Seamless integration with existing Tungsten Halogen Incandescent, similar performance and optics as other 4.5" (114mm) Mole Fresnels, and about 80% less power consumption.



## Specifications

**Heads:** Type 8901 Tungsten and Type 8911 Daylite

**Rating:** 90-250 Volts AC, 50-60Hz, 100 Watts, 0.5-1 Amps Max.  
DMX Standby Draw <.05 Amps Max.

**Light Source:** (1) - 100 Watt Mole-Richardson Quantum Dot LED  
3200K 95CRI Tungsten & 5600K 90CRI Daylight

**Cable:** Attached 25 ft (7.6m) Type SO., 3 Conductor,  
#18 AWG with NEMA 5-15 Edison  
(Other plugs and wire lengths available upon request)

**Switch:** Thru-cord Toggle in Cable, DMX or Local Toggle in Trough

**Fuse:** 1 Amp Slow-Blow. Fuseholder in Trough

**Dimming:** Flicker Free, Direct DC Dimming  
On-Board Dimmer 100% -10% (Minimal Color Shift)  
DMX Dimmer 100% - 0% (Minimal Color Shift)

**Control:** DMX512-A In and Out. Manual DMX Address Selector

**Condenser:** 4 1/2 in (113mm) Borosilicate Glass Fresnel

**Beam Angle:** 22° to 56° Variable Spot to Flood (Includes Field)

**Focusing:** Rotating Knob on Front and Back

**Cooling:** Passive-Forced Air

**Construction:** Aluminum and Steel with Interlocking Channels

**Yoke:** Cast Aluminum w/Standard 5/8 in (16mm) Receiver

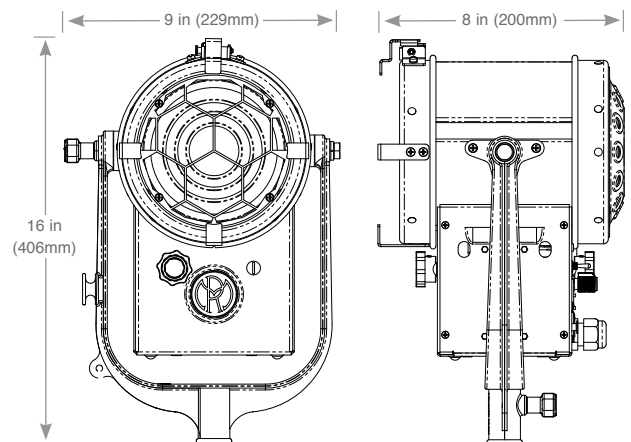
**Compliance:** RoHS, CE, UL, CSA Pending

**IP Rating:** 30

**Finish:** Textured Black Powder Epoxy Coat. (Other Colors Available)

**Size:** 8 in/200mm(d) x 9 in/229mm(w) x 16 in/406mm(h)

**Head Weight:** 6lbs/2.72kg (Head Only)  
8lbs/3.63kg (Head with 25ft/7.6m cable)



## Accessories

## Item Number

2-Way Barn Door (2 Leaf)	4032
4-Way TweenieLED Barn Door (4 Leaf)	89085
Moledisc Diffuser Frame (5 1/8 in/130mm)	40437A
Snoot (Set of 3)	40438A
Molesnoot (Five-in-one)	23532
Apertures: 1 in, 1 3/4 in, 2 1/8 in and 2 1/2 in (25mm, 44mm, 54mm and 64mm)	
Half Single Scrim—Stainless Steel (5 1/8 in/130mm)	5526S
Half Double Scrim—Stainless Steel (5 1/8 in/130mm)	5526D
Single Scrim—Stainless Steel (5 1/8 in/130mm)	5523S
Double Scrim—Stainless Steel (5 1/8 in/130mm)	5523D
Scrim Bag	G135
100 Watt TweenieLED Retrofit Kit, Tungsten	890110
100 Watt TweenieLED Retrofit Kit, Daylite	891110

## Performance Data

Using (1) 100 Watt Mole-Richardson QD LED.

Distance Feet (Meters)	Light Intensity Maximum Flood Foot Candles (Lux) Daylite	Light Intensity Maximum Flood Foot Candles (Lux) Tungsten	Light Intensity Maximum Spot Foot Candles (Lux) Daylite	Light Intensity Maximum Spot Foot Candles (Lux) Tungsten	Beam Diameter Maximum Flood Feet (Meters)	Beam Diameter Maximum Spot Feet (Meters)
5 (1.5)	300 (3,229)	240 (2,583)	430 (4,628)	400 (4,306)	3.7 (1.1)	1.9 (0.6)
10 (3.0)	75 (807)	60 (646)	145 (1,561)	120 (1,292)	7.3 (2.2)	3.8 (1.2)
15 (4.6)	35 (377)	30 (323)	65 (700)	50 (538)	11.0 (3.4)	5.7 (1.7)

Light tapers smoothly at edge of field. Dimensions listed define flat area boundaries at which the intensities are approximately 50% of tabulated intensities at beam center.

*Mole-Richardson Co.*

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# Mole<sup>TM</sup> LED Fresnel

If there is one product synonymous with Mole-Richardson Co., it's the iconic Motion Picture Fresnel. Built in Hollywood California since 1936, the studio Fresnel remains the back-bone of professional lighting for the film, television and broadcast industries. Relatively unchanged since its origin, the studio Fresnel rarely saw dramatic improvements...until now.

Introducing the MoleLED Fresnels. A design familiar to generations of lighting professionals is now loaded with state

of the art electronics and the latest LED technology. These revolutionary fixtures use a proprietary Quantum Dot LED developed and produced by Mole to replicate film and television 3200K Tungsten and 5600K Daylight exactly.

High-output, with unparalleled color quality and a borosilicate glass Fresnel lens, the MoleLED Fresnels perform identically to an incandescent or HMI Fresnel fixture. In addition, Mole added features like a universal power supply, built-in local dimming as well as on-board DMX dimming. Now, you are no longer tied to an external dimming system or any one voltage.

In an industry inundated with mass produced, eco-friendly products, the MoleLED Fresnels are truly a hybrid of hand crafted quality and the most advanced solid state lighting technology available. From the ground up,



the MoleLED Fresnels are designed, engineered and built in the USA for professionals everywhere.

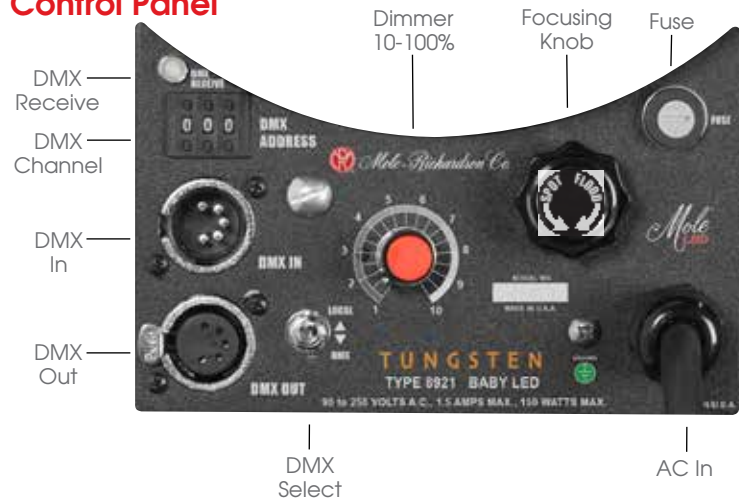
## Product Benefits

- An 80% reduction in energy consumption
- Flicker-Free dimming with little to no color shift.
- No need for external dimming systems.
- No direct IR or radiant heat from Fresnel.
- And so much more...

### Retro-Fit Kits

Realizing a need for our industry to further reduce, reuse and recycle, Mole is also offering simple retro-fit kits to convert existing legacy Tweenie, Baby and 8" Junior Solarspots to new Tungsten or Daylight MoleLED<sup>TM</sup> Fresnels.

## Control Panel



## The Technology



The MoleLED Fresnels are powered by a new, proprietary Mole-Richardson Co. Quantum Dot chip on-board LED module. The benefit of QD LED technology is the ability to specifically tune the visible wavelength at the nano scale which, in this case, allows for precise adjustment of the red spectrum without impacting the overall light output of the LED. This Patent Pending LED board represents the first time QD LED's are being used in the film, television and broadcast industries.

