



LED Parking Lot Fixtures & Pole Mounting Accessories

Steel / Aluminum



Concrete / Fiberglass



Wood



Poles Types & Materials

- Lighting Poles across the US are available in a variety of different sizes, shapes, and materials.
- However, the most common pole materials are steel/aluminum, concrete/fiberglass, or wood.
- Knowing each pole type and material is crucial in determining how the fixture will be mounted.

Pole Shape / Shaft / Height

The most common Pole Shapes will be either **Square** or **Round**.

The Pole Shaft typically refers to the outside pole dimension, such as:

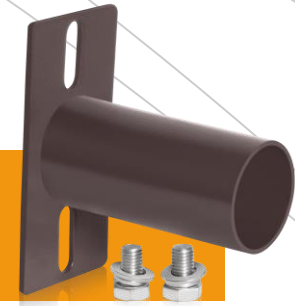
2x2

3x3

4x4

5x5

The Pole Height is also quite important in determining the total number of recommended fixtures per pole in order to achieve proper light levels.



Tenons For Steel / Aluminum Poles

Are there existing tenons?

- If yes, the most common tenon diameter is 2-3/8", although some can be 2-7/8" or larger.
- If no, HTM Lighting Solutions carries a variety of tenons to cover most applications!

No Tenons?

- If the pole has no existing tenons, it is likely the existing fixtures are **Direct Mounted** to the side of the pole, which is quite common with MH / HPS / HID Fixtures.
- HTM Lighting Solutions offers LED Parking Lot Fixtures with Direct Mount Brackets, but please keep in mind the drill pattern may vary from manufacturers, and it is recommended to verify the existing drill pattern against the replacement mount.
- We also offer our **Horizontal Tenon Mid-Pole Bracket**, which allows for the use of Split-Fitter Mounts to be mounted directly to the pole.

Tenons and Adapters For Concrete Poles

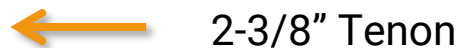
Concrete and Fiberglass poles will always have a tenon on the top of the pole, regardless of the size or shape of the pole.

In general, this should be a standard 2-3/8" tenon diameter. However please double check to be sure, as it could be 2-7/8" or greater.

**If the pole has a 2-7/8" tenon, either a reducer or adaptor can be purchased separately.*

For concrete poles requiring a single fixture, our LED Parking Lot Fixtures with Adjustable Split Fit Mount fit easily over a 2-3/8" Tenon.

For poles requiring multiple fixtures per pole, HTM Lighting Solutions also carries a wide selection of light pole brackets & tenon adapters.



← 2-3/8" Tenon



← Pole

Adjustable Split
Fit Mount →



Number of Fixtures per Pole

There are a variety of different combinations and styles of tenon adapters available depending on the number of fixtures needed per pole.

HTM Lighting Solutions offers a wide selection of tenon adapters that can accommodate anywhere between 1x and 4x fixtures!

The tenon adapter needed will depend on the project and desired look, as the goal typically is optimizing the ratio of the light spread and uniformity throughout a particular area.



Check Out Part Compatibility On Slides 7-14

Single Square
Vertical Tenon



180 Degree
Double Bullhorn



Triple Square
Vertical Tenon







Quad 90 Degree
Square Horizontal Tenon



Single Fixture







Configuration Options for a 4 x 4 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	4SQ-SP-D-V2	4" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
#2	4SQ-SP-D-V2	4" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	PTSB1SZ	Tenon Adapter with Single Horizontal Tenon	
#3	SQ-SP-D-V2	2-3/8" OD Horizontal Tenon Mid-Pole Bracket with Screws (V2)	



Double Fixture

Configuration Options for a 4 x 4 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP2-180-D-V2</u>	Double 180 Degree Horizontal Tenon Adapter with Screws (V2)	
#2	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-BH2-180-D-V2</u>	180 Degree Double Bullhorn with 2-3/8" Tenons (V2)	
#3	<u>PSS4T180HTZ</u>	4" 180 Degree Twin Square Horizontal Tenon, Bronze	
#4	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>PSS4TVTZ</u>	4" Twin Square Vertical Tenon, Bronze	



Triple Fixture

Configuration Options
for a 4 x 4 Square Steel
Pole

Option	SKU	Name / Notes	Pictures
#1	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount With 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP3-120-D-V2</u>	Triple 120 Degree Horizontal Tenon Adapter With Screws (V2)	
#2	<u>PSS4TR90HTZ</u>	4" 90 Degree Triple Square Horizontal Tenon, Bronze	
#3	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount With 2-3/8" Vertical Tenon (V2)	
	<u>PSS4TRVTZ</u>	4" Triple Square Vertical Tenon, Bronze	





Quad Fixture

Configuration Options for a 4 x 4 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount With 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP4-90-D-V2</u>	Quad 90 Degree Horizontal Tenon Adapter With Screws (V2)	
#2	<u>PSS4Q90HTZ</u>	4" 90 Degree Quad Square Horizontal Tenon, Bronze	
#3	<u>4SQ-SP-D-V2</u>	4" Square Pole Mount With 2-3/8" Vertical Tenon (V2)	
	<u>PSS4Q180VTZ</u>	4" 180 Degree Quad Square Vertical Tenon, Bronze	

Single Fixture




Configuration Options for a 5 x 5 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
#2	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>PTSB1SZ</u>	Tenon Adapter with Single Horizontal Tenon	
#3	<u>SQ-SP-D-V2</u>	2-3/8" OD Horizontal Tenon Mid-Pole Bracket with Screws (V2)	



Double Fixture

Configuration Options for a 5 x 5 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP2-180-D-V2</u>	Double 180 Degree Horizontal Tenon Adapter with Screws (V2)	
#2	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-BH2-180-D-V2</u>	180 Degree Double Bullhorn with 2-3/8" Tenons (V2)	
#3	<u>PSS4T180HTZ</u>	4" 180 Degree Twin Square Horizontal Tenon, Bronze	
#4	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>PSS5TVTZ</u>	5" Twin Square Vertical Tenon, Bronze	




Triple Fixture

Configuration Options
for a 5 x 5 Square Steel
Pole

Option	SKU	Name / Notes	Pictures
#1	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP3-120-D-V2</u>	Triple 120 Degree Horizontal Tenon Adapter With Screws (V2)	
#2	<u>PSS5TR90HTZ</u>	5" 90 Degree Triple Square Horizontal Tenon, Bronze	
#3	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>PSS5TRVTZ</u>	5" Triple Square Vertical Tenon, Bronze	

Quad Fixture

Configuration Options for a 5 x 5 Square Steel Pole

Option	SKU	Name / Notes	Pictures
#1	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>R60-SP4-90-D-V2</u>	Quad 90 Degree Horizontal Tenon Adapter With Screws (V2)	
#2	<u>PSS4Q90HTZ</u>	4" 90 Degree Quad Square Horizontal Tenon, Bronze	
#3	<u>5SQ-SP-D-V2</u>	5" Square Pole Mount with 2-3/8" Vertical Tenon (V2)	
	<u>PRSQ180BHZ</u>	4" 180 Degree Quad Square Vertical Tenon, Bronze	

Wood Pole Brackets and Flood Mounts

Is there an existing bracket or fixture on the wood pole?

If yes, the existing bracket can be reused with an Adjustable Split Fit Mount as long as the bracket is a 2-3/8" in diameter or smaller

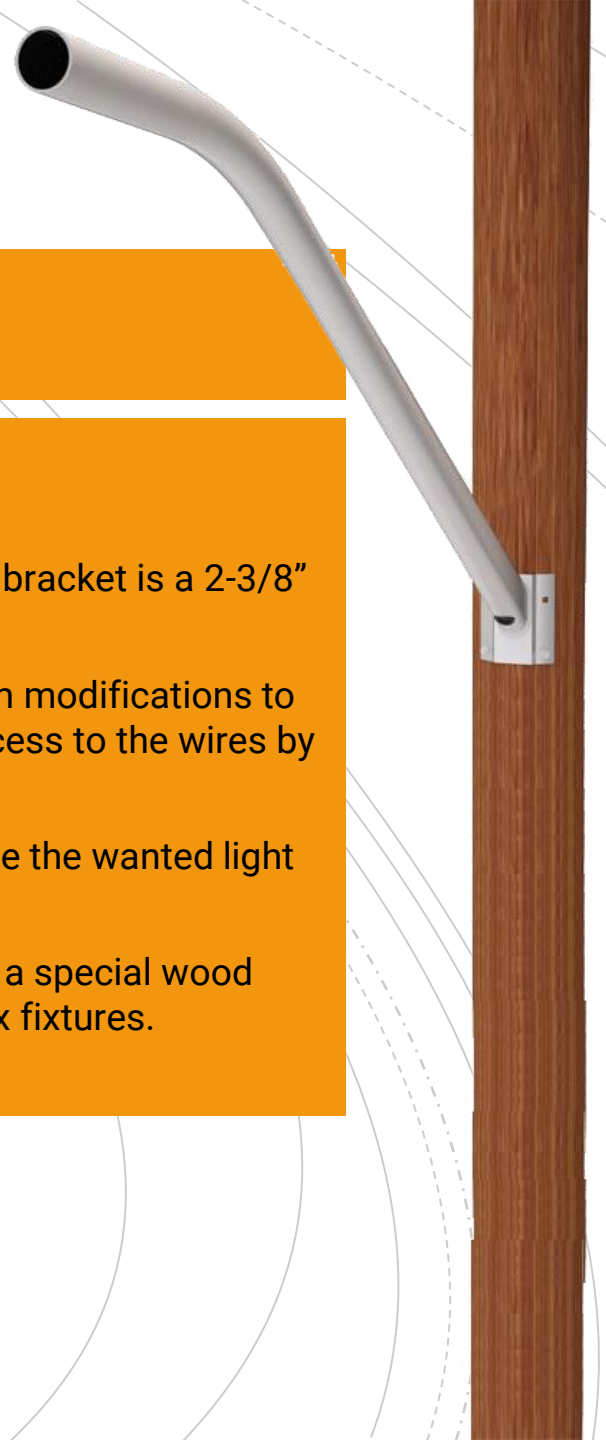
As an alternative to direct mounting to a wood pole, which would require additional custom modifications to run the wiring, a Flood Mount parking lot fixture allows for easy installation and simple access to the wires by running them alongside the pole through a conduit and connecting to a junction box.

Using a Flood mount will also enable the fixture to be adjusted vertically, in order to achieve the wanted light levels within the area.

If you are looking to have more than 1x fixture per wood pole, we highly recommend using a special wood pole mount that is made solely for use with a wooden pole and can accommodate up to 4x fixtures.



← Flood Mount





1000W MH SHOE BOX - BUSH PLAZA, TAMPA, FL



300W LEDSHOE BOX - BUSH PLAZA, TAMPA, FL

Retrofitting Existing Fixtures MH / HPS -> LED

- HTM Lighting Solutions' LED Parking Lot Light Fixtures are available in wattages ranging between 100W LED to 300W LED for a wide range of lighting applications!
- As a general rule of thumb for a 1:1 Retrofit from MH/HPS to LED Parking Lot Fixture, please follow the table below.

Metal Halide / HPS Wattage	LED Replacement Wattage
Up to 250W	100W
Up to 400W	150W
Up to 1000W	300W

- Since LEDs are typically much brighter than their MH/HPS equivalents, accounting for pole height is an important factor when determining whether a 1:1 retrofit ratio is necessary based on the light levels.



Final Check List



Pole Material: _____

Pole Quantity: _____

Pole Height: _____

Pole Shaft: 3x3 4x4 5x5 6x6

Pole Shape: Square Round

Voltage: 120V 208V

Existing Tenons: 2-3/8" 2-7/8" ____

240V 277V

Num of Fixtures / Pole: 1 2 3 4

347V 480V

MH/HPS Wattage: _____

Notes: _____



Additional Questions?

Please feel free to reach out directly to HTM Lighting Solutions' team of specialists for any further assistance, such as:

- 📞 Expert advice in Lighting Designs
- 📞 Same-Day Estimates
- 📞 B2B / Trade Discounts / HTM Pro Portal
- 📞 Free Same-Day ROI & Energy Audits
- 📞 Free Lighting Layouts and Estimates
- 📞 Affordable Pricing & Financing Options



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