

# ACORNS

REINVENTED



SUN VALLEY  
LIGHTING

# Innovate

## MODERNIZING CLASSICAL

Street lighting in the United States was introduced by inventor Benjamin Franklin. His colonial-era streetlights were lit by candles placed inside glass vessels. Eventually post top luminaires evolved from Franklin's flat glass pane design to round globes, and then to ornamental "Acorns" that were decorative, but also had shapes that helped direct light where it was most desired.

This classically styled Acorn luminaire, which has become among the most commonly utilized of all post top decorative luminaires, is a staple among many downtown boulevards and historic districts. Other applications are streetscapes, school campuses, residential areas, parks, and shopping plazas.

In the past the downside of utilizing an Acorn luminaire was its ineffective illumination performance. It was not uncommon to have found yourself frustrated and exhausted from having to choose between matching your traditional American streetscape architecture and attempting to get engineered optics for photometric performance; picking either looks or performance.

Now you no longer have to choose, you can have both! Introducing Sun Valley's new POWER ARRAY™ 2 optical system. The market is full of lighting manufacturers that have a corncob LED element, but no one has an engineered optical system that can perform as effectively as Sun Valley's POWER ARRAY™ 2.

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# PA2 | POWER ARRAY™ 2



## WIRE COVER

The wire cover is simply a cap to cover the wire chamber.

## REFRACTORS

The Refractors are the magic of the performance of the PA2. The refractors position the light emitted from the LEDs to provide the precise, engineered distributions.

## DRIVER HOUSING

The Driver Housing is where the electronic, high efficiency power supply is located to remove it from the LED thermal chamber to keep it running cool and enabling a long lifetime.

## EXTRUDED AL HEATSINK

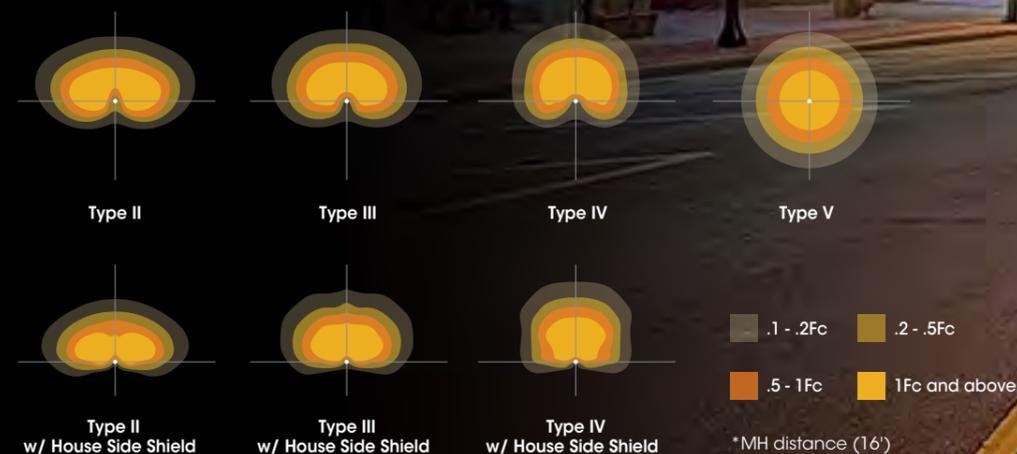
The Extruded Aluminum Heatsink is the active element of the thermal engine, designed to conduct heat away from the LEDs to enable them to perform more efficiently and to last longer.



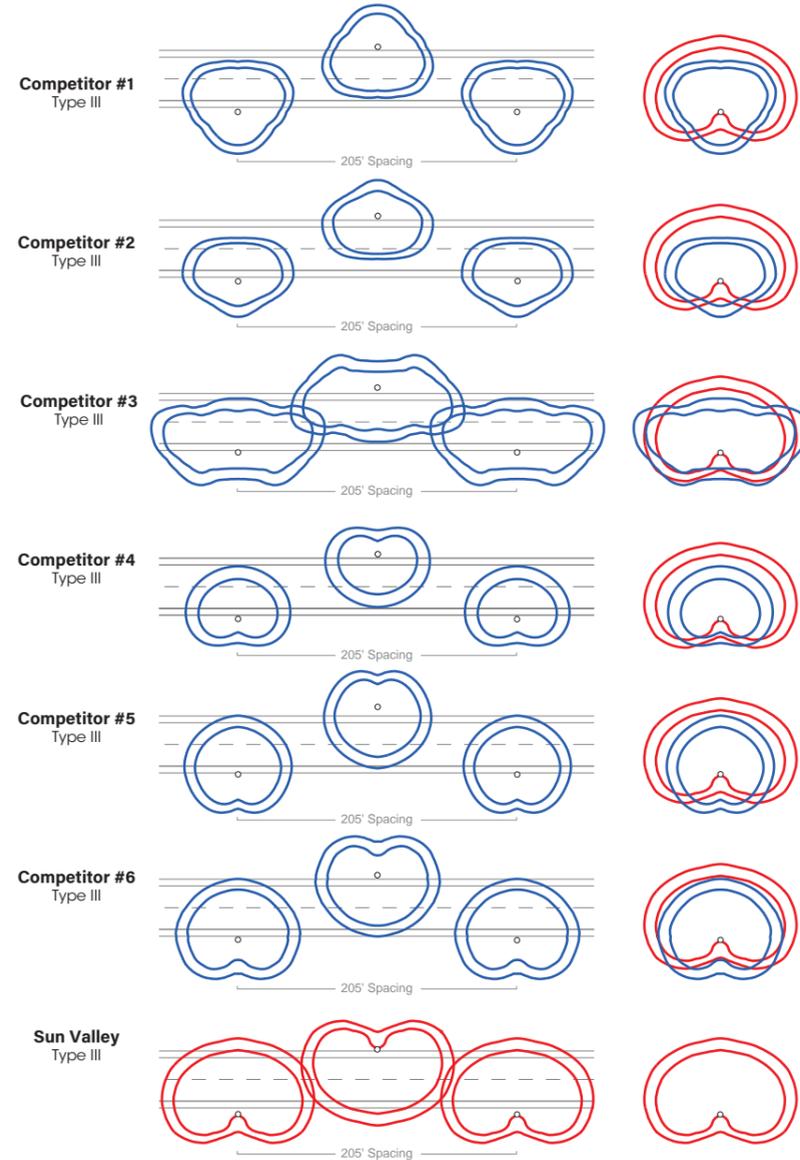
Sun Valley Lighting has taken LED sources and combined them with highly efficient refractive optics to devise an optical system that allows traditional Acorns to produce real photometric performance including fixture efficacy of over 140 LPW and 4 effective distributions.

The resulting distributions are smooth, about 30% to 50% wider than our competitors and have great house side control; 12% to 15% backlight even before the addition of the House Side Shield.

But the most amazing part is the uplight control. The Sun Valley distributions have only 11% to 12% uplight, even with the contribution from the acorn diffuser. In short, our optical performance speaks for itself.

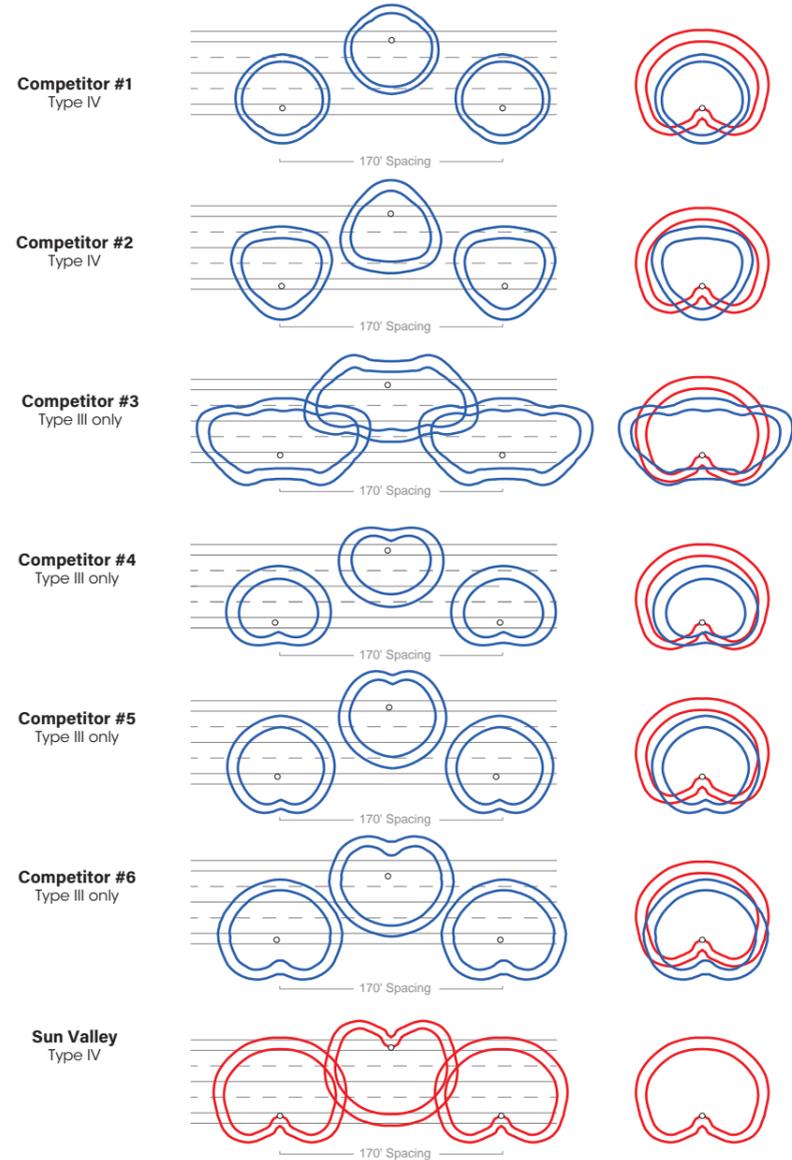


Decorative Acorn Photometric Comparison  
Local 2-Lane Roadway (12' Pole)



— 0.2 / 0.4fc  
— 0.2 / 0.4fc

Decorative Acorn Photometric Comparison  
Local 4-Lane Roadway (12' Pole)



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In a typical 2-lane roadway application layout with Type III distribution, 190' / 95' staggered pole spacings @ 12'MH, 0.4fc min, 1.0+fc avg. Here is a comparative layout versus 6 of the toughest outdoor lighting competitors in North America, only 1 of the 6 competitors, without adding poles, can even achieve the spec that Sun Valley can.

The Sun Valley average Foot Candle are 11% to 150% better with the BEST uniformity @ MAX:Min of only 5.

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In a 4-Lane roadway (Downtown) application layout with Type IV distribution, 160' / 80' staggered pole spacings @ 12'MH, 0.4fc min, 1.0+fc avg, we once again see that only 1 competitor from 6 of the toughest outdoor lighting competitors in North America, without adding poles, can achieve the spec that Sun Valley can.

The Sun Valley average Foot Candle are 13% to 134% better with the BEST uniformity @ MAX:Min of only 5.

**Efficacy**  
AND UNIFORMITY

# Expansive SELECTION

To provide real choice to your design palette, Sun Valley offers the 17 acorns, 12 fitters and 3 ornamental finials that you see depicted here.

In other words, there are 162 luminaire choices with numerous combinations of finials, arms, poles, and decorative bases. And every luminaire has the Power Array™ 2 Performance Optical System.

The optical system choices include 4 distributions, a HSS, and lumen packages up to 20,000 Lumens. Sun Valley has a complete line of Photometric Options.

To summarize our position, Sun Valley has the **MOST COMPLETE** line of ACORNS in the industry and it will remain our secret NO LONGER!!

FIXTURES

W x H

YA  
7" TALL

YB  
7" TALL

YC  
10" TALL

YD  
13" TALL

YE  
13" TALL

YF  
14" TALL

YG  
12" TALL

YN  
7" TALL

YO  
6" TALL

YP  
13" TALL

UA  
13" TALL

UB  
13" TALL

BF  
BRASS

PF  
POLYMER

CF  
CAST

FINIALS



W x H	LAA1	LAA2	LAJ1	LAJ2	LAE1	LAE2	LAB1	LAB2	LAC1	LAC2	LAF1	LAF2	LAFC1	LAFC2	LAG1	LAG2	LAES1
15.5"x22"																	
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