



Introducing Spring City's  
Revolutionary

# LED

Technology



Spring City™



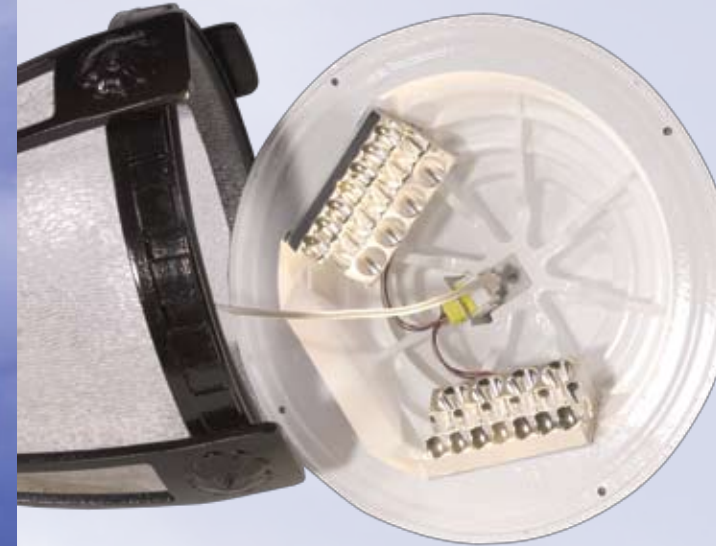
## Innovation inside. Pure Spring City outside.

For years, LEDs have held distinct advantages over other conventional light sources, including lower electricity requirements, no mercury, and longer life. But because luminaire design hadn't kept pace, these advantages were unavailable. Until now.

Spring City is pleased to introduce our revolutionary, patent pending LED system. We devoted thousands of hours in research and development with the latest LED technology to create a lighting solution that would meet not only our own high standards for quality, but also our customers' high standards for aesthetics, performance, and cost-effectiveness.

**CREE**   
**LEDs**  
Illuminated by CREE

This is what we call the “innovation inside” our new LED lighting solution:



### Light

It begins with CROSSFIRE™ Optics, our patent pending technology to simulate the same warm blanket of light you're accustomed to seeing from traditional sources. By precisely interweaving the light from dozens of LEDs, CROSSFIRE Optics creates the pleasing appearance of a single light source, eliminating the “field of dots” display common among most LED light sources.

### Variable Color Temperature

To meet your needs, our LED system is available in color temperatures ranging from 2700K through 6000K. As you know, increasing the color temperature will increase the luminaire's overall efficacy.

### Heat

Spring City's LED system manages heat through an innovative technology that doesn't interfere with the integrity of our luminaire designs. Our patent pending CoolCast™ heat dissipation allows our fixture to maintain a low junction temperature by dissipating heat through our cast aluminum hood directly to the atmosphere. Assuming an ambient temperature of 25° C, our CoolCast system will maintain a junction temperature of 60° C.

### Lifespan

We engineered our LED components to last well over 75,000 hours, longer than any other LED system on the market.

The outward appearance of our new LED systems is as appealing as the technology inside, which is why we say “Pure Spring City outside.”

### Daytime Appearance

Our innovative design enables our foundry to cast the LED fixture line in a fashion similar to the one we've used for over a century. In other words, our new LED system won't compromise the high aesthetic standard your projects demand.

We're proud of our new LED offering. It provides superior light and light control, superior operating and maintenance cost-effectiveness, and superior environmental characteristics. From the silicon wafer foundry to our own foundry that manufactures the metal castings in Spring City, PA, our LED fixtures are made in the United States of America.





Spring City LED Luminaires

Redesigned for the 21st Century



William and Mary



Columbia



Washington



Borough



Franklin Square

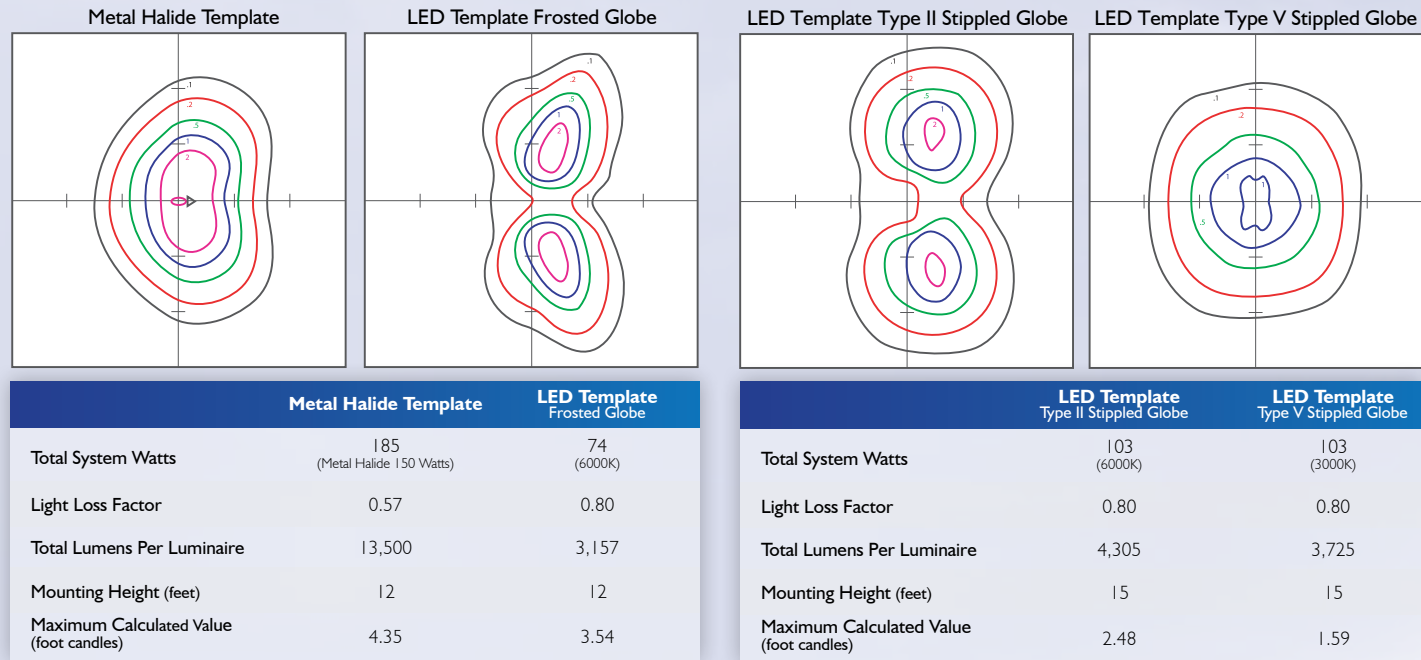


Edgewater

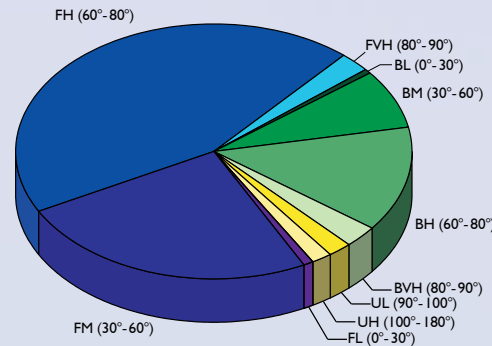
We can also remanufacture many existing Spring City installation fixtures to accommodate the LED system.

## LED Luminaires Offer Better Light Dispersion

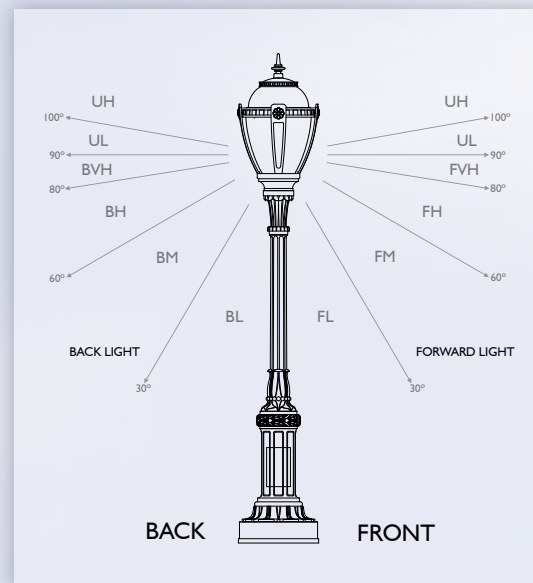
Spring City's new LED light system is not only more cost-effective to operate and maintain than traditional lighting, it also provides better light dispersion.



## FLUX Distribution Table Based on the IESNA Luminaire Classification System



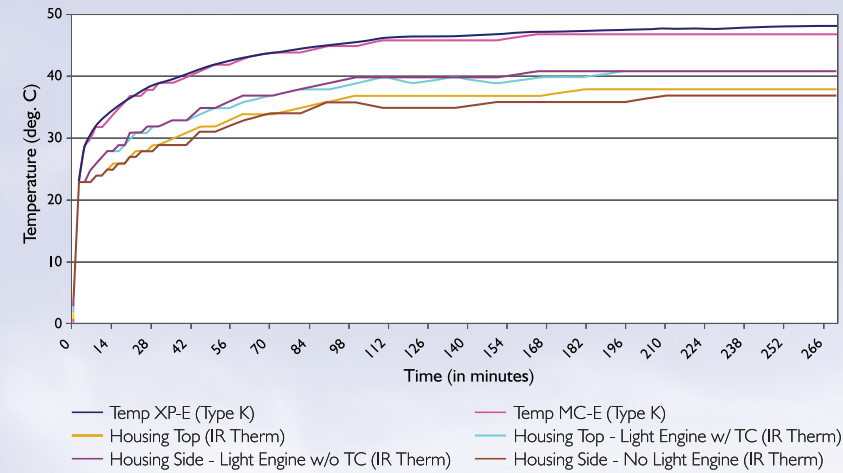
ZONE	LUMINAIRE LUMENS	% OF LUMINAIRE LUMENS
<b>FORWARD LIGHT</b>	3112	72.3
FL (0°- 30°)	29	0.7
FM (30°- 60°)	1073	24.9
FH (60°- 80°)	1896	44
FVH (80°- 90°)	113	2.6
<b>BACK LIGHT</b>	1038	24.1
BL (0°- 30°)	21	0.5
BM (30°- 60°)	318	7.4
BH (60°- 80°)	582	13.5
BVH (80°- 90°)	117	2.7
<b>UPLIGHT</b>	156	3.6
UL (90°- 100°)	83	1.9
UH (100°- 180°)	73	1.7
<b>TRAPPED LIGHT</b>	NA	NA



Independent test results per IES-LM-79-08

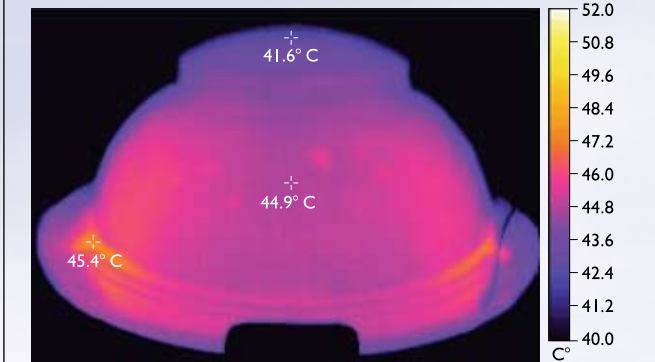
## Thermal Analysis

Actual solder point temperatures are 47° for the MC-E and 48.2° for the XP-E, which correlate to junction temperatures of 60.4° and 58.3°, respectively.



## FLIR Analysis

IR camera analysis captures overall temperature gradient, discloses undetected hot spots, and compares modeled results with actual measurements. Previous IR readings used a simple temperature probe, without compensating for emissivity. FLIR camera was calibrated and adjusted for proper emissivity of the roof. All readings taken at thermal equilibrium.



## Standard Light Engine Chart

Chips Required at Various Wattages		
Watts	MC-E	XP-E
152	34	0
125	26	8
99	18	16
74	10	24
40	0	34

The new Spring City LED system has been independently tested and verified to create over 70-percent street-side lumens. Available in options up to 152 Watts. IES files available.

Made in the United States of America

**CREE LEDs** Spring City LED luminaires are illuminated by CREE LED chips.

Cree, an American company, is the leader in the solid-state lighting industry, supplying high-quality LEDs widely recognized for their outstanding brightness and efficiency.

## Independently Tested for Verifiable Performance

The new Spring City LED system has been independently tested and verified to create over 70-percent street-side lumens. Available in options up to 152 Watts. IES files available.

## The Spring City Guarantee

We guarantee our products against defects in material and workmanship for 7 years. Please see our website or contact us directly for complete warranty information.



Revolutionary LED Technology  
Innovation inside. Pure Spring City outside.



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