

# Imagine optimal color without sacrifice.



## The high cost of color quality.

A typical high-end SSL luminaire may have a CRI of 80, yet its efficacy of 120 lumens per watt makes it far less appealing. Until now, every 10-point increase in CRI meant a 15% decrease in LPW. Any increase in R9 also resulted in as much as a 20% decrease in efficiency.

Fluorescent F28T8	LED	LED	reveal® TriGain™ Technology
85 CRI	80 CRI	90 CRI	90 CRI
100 LPW	160 LPW	127 LPW	168 LPW
R9 < 15	R9 < 30	R9 < 45	R9 > 90

\*Nichia 757 double dye 6-volt LED 4000K  
measured at the same operating conditions

32%  
INCREASE  
in LPW

## You can have it all:

reveal® TriGain™ technology combines outstanding levels of CRI, R9 and LPW to deliver exceptional color rendering quality without sacrificing efficacy.



## reveal® TriGain™ technology from GE.

At GE, we believe light has the power to make everything it touches better. Every day, we are dreaming of new ways to enhance light for our customers. Our reveal® technology does just that – significantly improving light outcomes for more vivid colors and patterns, all without compromising the energy savings you'd expect from LED.

Utilizing our decades of material science expertise, we've developed reveal® TriGain™ technology for retail and commercial lighting designers who need excellent color quality to bring out the beauty of objects and architecture on display. Until now, achieving optimal color rendering quality meant sacrificing energy efficiency. With reveal® TriGain™ technology, there's no compromise – both beauty and energy efficiency are enhanced.

## Harnessing the power of red.

The CRI (color rendering index) of light is important for bringing out the true beauty of displayed items, but that's just part of the story. R9, a saturated solid red, is vital to optimally displaying things such as skin tones, produce and artwork. In the past, however, increasing CRI and R9 levels in LED light has always come at the cost of energy efficiency.

## reveal® TriGain™ technology changes everything.

GE's LED Fixtures with reveal® TriGain™ technology combine the high levels of CRI, R9 and efficiency together in one LED. GE has developed a narrow-band red phosphor that increases both CRI and R9, while improving LED and system efficacy significantly versus other LED products or systems on the market. By making patented and proprietary technological improvements to phosphor synthesis, reveal® TriGain™ technology is an industry-leading phosphor with premium performance lighting systems for retail and commercial applications. We are doing so without the design complexities of other technologies and with no changes to the luminaire structure of our systems.



## Light that entices.

Knowing that most processed colors contain some percentage of red, reveal® TriGain™ technology boosts the level of R9 to improve color with no loss in efficacy. Increased R9 ensures that things like skin tones, artwork, fruits and veggies, and fabrics are rendered with vivid reds – giving customers confidence in the quality of their selections.

### Zero sacrifice in efficiency.

While reveal® TriGain™ technology harnesses the power of red to deliver the ultimate color quality, you won't have to compromise efficacy. With its potential to boost sales and reduce energy costs, this red revolution could help your bottom line.



## Light that performs.

Lighting is a significant contributor to your overall energy usage, so maximizing efficacy is a top priority. Until now, increases in color quality led to a considerable decrease in efficacy – making it an unattractive option for professionals charged with reducing energy costs. reveal® TriGain™ technology changed all that by combining brilliant color rendering quality with exceptional energy efficiency.

### Zero sacrifice in color quality.

Zero sacrifice in color quality. Combining improved efficacy and aesthetics, reveal® TriGain™ technology offers premium color quality to enhance the appearance of virtually everything featured within a space. It's a win-win solution for professionals focused on creating sharper, clearer and more comfortably illuminated environments.



## Light that moves.

Whether it's a cool new finish or unique architectural detail, GE's LED Fixtures with reveal® TriGain™ technology help bring out the vibrant colors on display. By boosting the level of CRI, GE's LED Fixtures with reveal® TriGain™ technology deliver an attractive rendering of colors to help merchandise look its very best.

### The red revolution.

GE has harnessed the power of red to deliver ultimate color rendering quality with zero sacrifice in efficacy.

Discover how reveal® TriGain™ technology can impact your retail or commercial lighting designs by visiting [gelighting.com/revealTG](http://gelighting.com/revealTG) or by contacting your GE representative today.

GE Lighting

1975 Noble Road  
East Cleveland, Ohio 44112

[gelighting.com](http://gelighting.com)

GE and the GE Monogram are trademarks of the General Electric Company. Reveal® is a registered trademark of GE. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting and GE Lighting Solutions, LLC are businesses of the General Electric Company.

© GE LEDL011 04/2015 Printed in USA

# Color without compromise.

Only from GE.

Historically, lighting designers have been faced with a choice: enhanced efficacy or enhanced beauty. But what if you want it all?

**UNTIL NOW,**

every 10-pt. increase in CRI has led to a 15% decrease in LPW.

## CRI

High color rendering index (CRI) of light is critical to optimally displaying objects and environments.

## R9

A saturated solid red, R9 plays a key role in how accurately colors appear.

**UNTIL NOW,**

increasing R9 has decreased efficiency as much as 20%.

## LPW

Because lighting is a major contributor to energy usage, maximizing lumens per watt (LPW) is a must.

**UNTIL NOW,**

increasing LPWs has resulted in lower color rendering quality.

# reveal<sup>®</sup> TriGain<sup>™</sup> technology from GE

ULTIMATE COLOR QUALITY WITH ZERO SACRIFICES.

Fluorescent F28T8	LED	LED	reveal <sup>®</sup> TriGain <sup>™</sup> Technology
85 CRI	80 CRI	90 CRI	90 CRI
100 LPW	160 LPW	127 LPW	168 LPW
R9 < 15	R9 < 30	R9 < 45	R9 > 90

\*Nichia 757 double die 6-volt LED 4000K measured at the same operating conditions

32%  
INCREASE  
in LPW

## A REVOLUTION IN RED

With its unparalleled levels of R9, reveal<sup>®</sup> TriGain<sup>™</sup> technology from GE unlocks the power of red to bring out the best in many common objects:



ARTWORK



SKIN TONE



FABRIC



PRODUCE



To learn how reveal<sup>®</sup> TriGain<sup>™</sup> technology can impact your retail or commercial lighting design, visit [gelighting.com/revealTG](http://gelighting.com/revealTG) or contact your GE representative today.