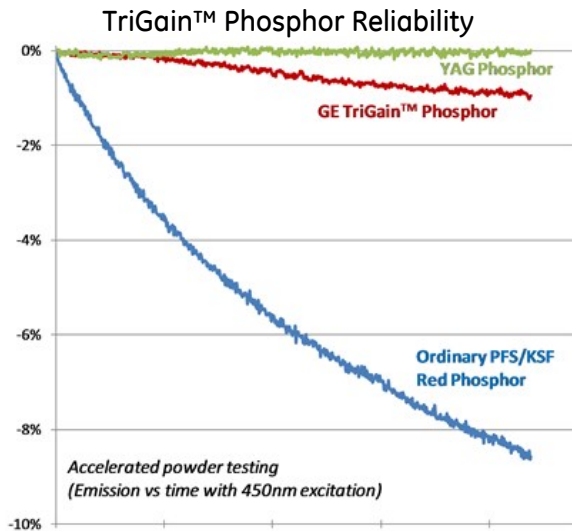


TriGain™ Technology

GE's potassium fluorosilicate Mn⁴⁺ (PFS) Phosphor for Display

When Reliability Matters

GE's TriGain™ delivers high absorption with improved reliability compared with standard PFS phosphor



Seeing Is Believing

LED Display with GE TriGain™ Phosphor

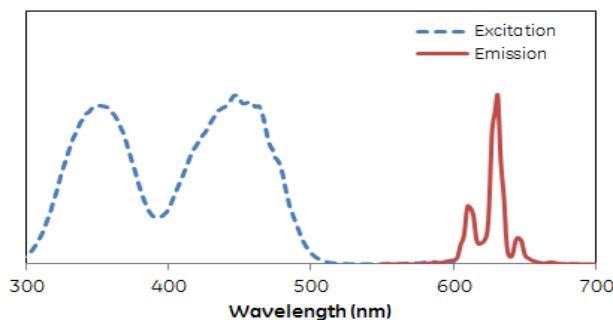
LED Display with Standard Red Nitride Phosphor



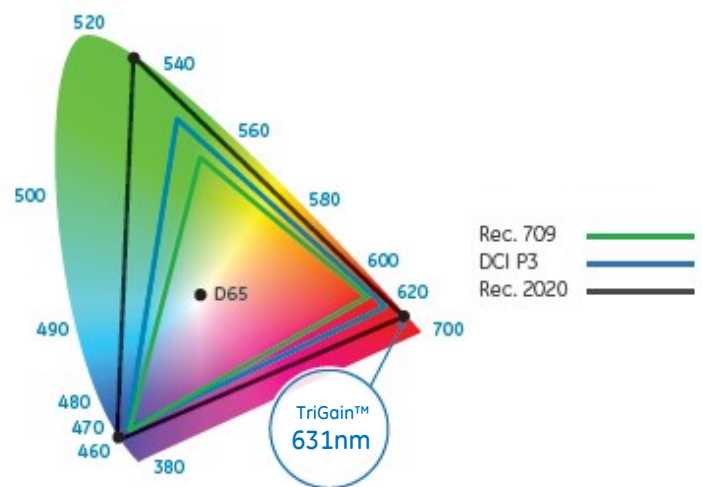
On Chip Enhanced Color

- Narrow emission peak at 631nm
- Wide color gamut in red region
- Available in a variety of types for optimal packaging

TriGain™ Absorption and Emission Spectrum



TriGain™ Color Gamut - Extended Red



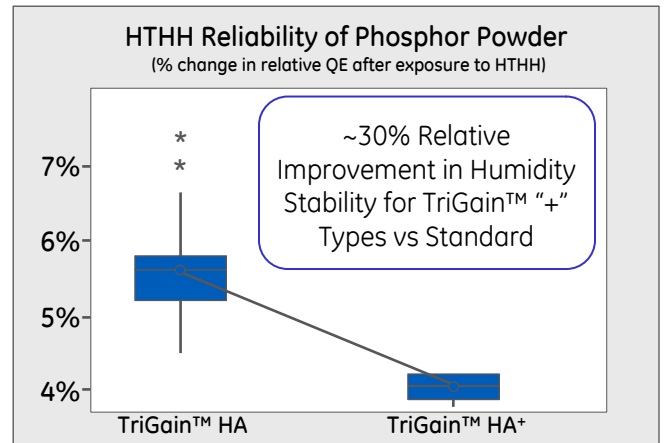
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TriGain™ Technology Specifications

Parameters	
CIE Coordinate X	0.691
CIE Coordinate Y	0.307
Main Emission Peak	631nm
Particle Size d50 (customized sizes available)	20µm, 28µm, 40µm

GE TriGain™ is manufactured using
U.S. Patent Nos. 8,057,706; 8,252,613; 8,906,724
and other Pending Patent Applications



Type	Particle Size (d50)	Quantum Efficiency (Relative Measurement)	Absorption @450nm (Relative to BaSO ₄)
TriGain™ Premium (P and P+ Types)	20 µm	≥ 102%	55%
	28 µm	≥ 104%	67%
	40 µm	≥ 104%	74%
TriGain™ High Absorption (HA and HA+ Types)	20 µm	≥ 101%	61%
	28 µm	≥ 103%	71%
	40 µm	≥ 103%	78%



LED Display with GE TriGain™ Phosphor



LED Display with Standard Red Nitride Phosphor

To learn how TriGain™ Phosphor Technology can enhance your LCD display, or to obtain a sample, visit:
www.geradiantred.com/trigain-phosphor



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