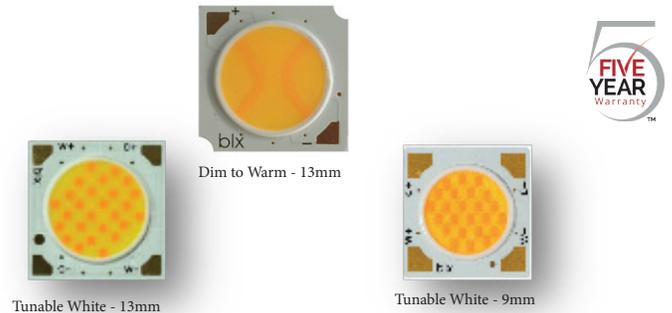


# Vesta<sup>®</sup> Series Generation 3

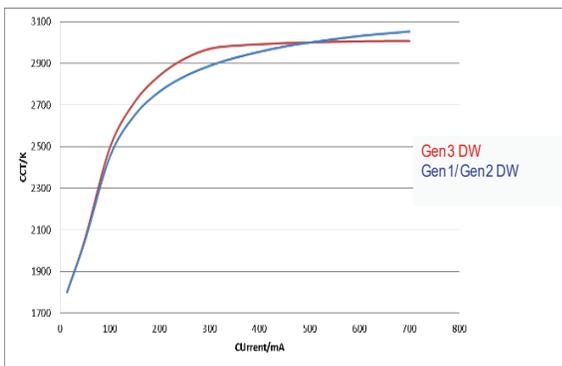
## Product Highlights

- Vesta Series Generation 3 includes upgrades to both the Tunable White platform and the Dim to Warm platform
- Family has been grown to include the Vesta Series HD Tunable White
- Vesta Tunable White utilizes the advanced dispensed phosphor process to create a chessboard pattern for enhanced color mixing.
- Vesta Dim to Warm Generation 3 design removes external resistors, and moves all substrates to a standard square shape.
- Designers can now take advantage of Bridgelux's proven technology, while having the ability to tune both color point and intensity.
- Holders, optics, and two-channel drivers from Bridgelux offer a complete lighting solution.



## Features

- New dispensed phosphor chessboard patterns
- All square substrates - identical to many Bridgelux static white options in V Series
- Dim-to-Warm Gen3 has no external resistors - increased robustness
- New Dim-to-Warm tuning maintains nominal CCT from nominal to maximum rated current
- Highly efficient designs with typical efficacies up to 138 lm/W
- Wide flux package range available
- Popular CCT ranges of 1800K-4000K and 2700K-6500K, with more options available
- Maintain CRI 90 across entire tuning range



## Benefits

- Ideal for selectable CCT or Human Centric Lighting (HCL) applications
- Superior color mixing with Gen3 applied technology for enhanced optical control
- High-quality, true color reproduction
- Clean, consistent white light without pixelation
- Reuse holders and optics from static white applications
- High quality, true color reproduction
- Better performance maintenance over time and 2x the lifetime of ceramic metal halides
- Enables compact fixture design, lowers operating costs
- Reduced maintenance costs

## Applications

- Retail & Hospitality
- Architectural & Museums
- Industrial & Warehouse
- Residential
- Human Centric Lighting
- Healthcare & Hospitals
- Spot & Track Lighting
- Restaurant Lighting



Product	CCT Ranges	CRI	SDCM	Nominal Sizes	Typ Flux (lm)*	Drive Current (mA)	Voltage (V)	Power (W)	Efficacy (lm/W)*	True LES (mm)	Data-sheets	Compatible Bridgelux Holder
<b>Dim-to-Warm Array Gen3</b>	Warm: 1800K Cool: 27/30/4000K	90	3	6mm	670	350	17.3	6.1	111	7.2	DS1370	BXHD-1212-095
				9mm	1430	350	34.6	12.1	118	9.3	DS1371	BXHD-1313-112
				13mm	2560	600	34.7	20.8	123	13.5	DS1372	BXHD-1919-160/165L
<b>Tunable White Array Gen3</b>	Warm: 18/2700K Cool: 40/50/57/6500K	90	3	6mm	670	150	36.3	5.4	123	7.0	DS491	BXHD-1212-095
				9mm	1200	250	36.1	9.0	133	10.4	DS492	BXHD-1616-125
				13mm	2277	500	37.4	18.7	135	14.3	DS495	BXHD-1919-160/165L
				15mm	2925	650	36.4	23.7	137	17.8	DS496	TBD
				18mm	4077	900	36.4	32.8	138	19.1	DS497	BXHD-2424-213

\* All measurements are at T<sub>c</sub> = 25°C

# Vesta® Series Generation 3

## Bridgelux Tunable White - Standard

Product	CCT Ranges*	CRI	SDCM	Typ Flux (lm)*	Drive Current (mA)	Voltage (V)	Power (W)	Efficacy (lm/W)*	True LES (mm)	Datasheets
Vesta TW 6B	Warm: 18/2700K Cool: 40/50/57/6500K	90	3	670	150	36.3	5.4	123	7.0	<a href="#">DS491 - Gen3</a> <a href="#">DS349 - Gen2</a>
Vesta TW 9A				1100	500	18.2	9.0	123	10.4	<a href="#">DS492 - Gen3</a>
Vesta TW 9B				1200	250	36.1	9.0	133		<a href="#">DS350 - Gen2</a>
Vesta TW 13A				2277	500	37.4	18.7	135	14.3	<a href="#">DS495 - Gen3</a> <a href="#">DS351 - Gen2</a>
Vesta TW 15A				2925	650	36.4	23.7	137	16.3	<a href="#">DS496 - Gen3</a> <a href="#">DS352 - Gen2</a>
Vesta TW 18A				4077	900	36.4	32.8	138	19.6	<a href="#">DS497 - Gen3</a> <a href="#">DS353 - Gen2</a>
Vesta TW 22A				5966	900	53.6	48.2	127	21.7	<a href="#">DS354</a>
Vesta TW 29A				6600	1050	52.7	55.3	136	28.5	<a href="#">DS355</a>

## Bridgelux Tunable White - High Density

Product	CCT Ranges	CRI	SDCM	Typ Flux (lm)*	Drive Current (mA)	Voltage (V)	Power (W)	Efficacy (lm/W)*	True LES (mm)	Datasheets
V6TW HD	1800-4000K 2700K-6500K	90/Thrive	3	1021 1091	250	34.2	8.6	118 128	7.0	<a href="#">DS1751</a>
V6 TW HD (D3)				1021 1091	250	34.2	8.6	118 129	7.0	<a href="#">DS1756</a>
V9 TW HD	2700K-6500K	90		2140	500	34.2	17.1	125	10.5	<a href="#">DS1752</a>
V13 TW HD	1800-4000K 2700K-6500K	90		3557	700	37.1	26.0	137	15.6	<a href="#">DS1753</a>

## Bridgelux Dim to Warm

Product	CCT Ranges*	CRI	SDCM	Typ Flux (lm)*	Drive Current (mA)	Voltage (V)	Power (W)	Efficacy (lm/W)*	True LES (mm)	Datasheets
Vesta DW 6A	Warm: 1800K Cool: 27/30/4000K	90	3	660	350	17	6.0	111	7.2	<a href="#">DS1370 - Gen3</a>
Vesta DW 6B				1080	280	34.6	9.7			<a href="#">DS190 - Gen2</a>
Vesta DW 9B				1430	350	34.6	12.1	118	9.3	<a href="#">DS1371 - Gen3</a> <a href="#">DS191 - Gen2</a>
Vesta DW 13A				2560	600	34.7	20.8	123	13.5	<a href="#">DS1372 - Gen3</a>
				2432	600	33.5	20.1	117	13.5	<a href="#">DS192 - Gen2</a>
Vesta DW 15A				3920	950	34.1	32.4	121	16.3	<a href="#">DS159</a>
Vesta DW 18A				5144	1290	33.8	43.6	118	18.3	<a href="#">DS165</a>
Vesta DW 29A				13098	2350	45.6	107.2	122	28.5	<a href="#">DS167</a>