

# V Series™ HD F90

## F90™ Differentiation

Bridgelux F90™ is a family of white points designed for Bridgelux surface mount devices (SMD), V Series™ and V Series HD chip-on-board LED arrays, EB Series™ linear modules, and Vesta® tunable white COBs and modules. Engineered to provide the highest CRI90 efficacy using proprietary chip, phosphor, and packaging technology. The high-fidelity spectral output of F90 creates stunning environments with excellent color rendering and outstanding TM-30 metrics.



## Features

- F90 performance is same or better than CRI80
- Highest CRI90 efficacy up to 137 lm/W
- Delivering a CRI of min 90 and R9 of min 50
- Industry standard form factors and footprint
- Two options of ANSI compliant color bins, and Bridgelux white color points
- DLC Premium Lumen maintenance L90≥36,000 hours
- Broad product platform availability (SMDs and COBs)



## Benefits

- Enhanced optical control
- Drop in replacement for CRI80 LEDs used in the existing lighting products.
- The highest efficiency solution for high density whites of CRI 90
- True color reproductions
- Increase the vividness of strong red colors particularly desirable in retail applications
- Industry standard electrical compatibility
- General lighting to high-end retail luxury applications

## Applications

- Retail & Hospitality
- Architectural & Museums
- Industrial & Warehouse
- Residential



Product	CCT Range	F90 Target	SDCM	Typ Flux (lm)* 3000K 90 CRI	Drive Current (mA)	Voltage (V)	Power (W)	Efficacy (lm/W)* 3000K, 90 CRI	True LES (mm)	Datasheets
<b>V4 HD</b>	2700K - 4000K	To/TB	2, 3	799	175	33.9	5.9	135	4.8	DS1361
<b>V6 HD - C</b>	2700K - 4000K	To/TB	2, 3	1458	350	33.9	11.9	137	6.6	DS1360
<b>V6 HD - G</b>				1508	700	18.2	12.7	131		
<b>V9 HD</b>	2700K - 4000K	To/TB	2, 3	3240	700	33.9	23.7	137	8.8	DS1362
<b>V11 HD</b>	2700K - 4000K	To/TB	2, 3	4374	1050	33.9	35.6	126	11.3	DS1363

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

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Bridgelux V Series HD F90 Sell Sheet Rev. A (12/2025)

For more information: [bridgelux.com](https://bridgelux.com)  
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